Proposed Hg Trading Rule + IAQR Region: System Page: 3. 1

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAO TSXBD0241041020207 01 | 171. | 1273. | 85.0 | 9.48 | 3.29 | 16.27 | 12.77 | 0.00 | 43.10 | 7.37 | 23.64 | 18.56 |
| MACE TSXBD0141031010107 01 | 155. | 1071. | 78.9 | 12.94 | 3.25 | 17.35 | 16.19 | 0.00 | 43.10 | 6.68 | 24.03 | 22.43 |
| VACAVATSXBD0341092020307 01 | 882. | 6568. | 85.0 | 12.34 | 3.29 | 102.68 | 15.63 | 0.00 | 23.30 | 20.55 | 123.23 | 18.76 |
| ECAO TSYBA0441192020105 01 | 500. | 3723. | 85.0 | 8.34 | 3.35 | 43.54 | 11.69 | 0.00 | 36.20 | 18.10 | 61.64 | 16.56 |
| ECAOOHTSYBA0441041020105 01 | 2600. | 19360. | 85.0 | 8.39 | 3.35 | 227.28 | 11.74 | 0.00 | 43.30 | 112.58 | 339.86 | 17.55 |
| UPNY TSYBA0141022020105 01 | 675. | 5026. | 85.0 | 11.27 | 3.35 | 73.51 | 14.63 | 0.00 | 36.20 | 24.44 | 97.95 | 19.49 |
| TVA KYTSYBA0641201010105 01 | 1192. | 8876. | 85.0 | 8.19 | 3.35 | 102.46 | 11.54 | 0.00 | 43.50 | 51.85 | 154.31 | 17.39 |
| ECAO TSXBA0641202020105 01 | 1717. | 12785. | 85.0 | 8.32 | 3.35 | 149.29 | 11.68 | 0.00 | 33.00 | 56.66 | 205.95 | 16.11 |
| ECAO TSXBA0641202020205 01 | 600. | 4468. | 85.0 | 8.19 | 3.35 | 51.57 | 11.54 | 0.00 | 36.20 | 21.72 | 73.29 | 16.40 |
| UPNY TSXBA0141022020105 01 | 157. | 1169. | 85.0 | 11.72 | 3.35 | 17.63 | 15.08 | 0.00 | 43.50 | 6.83 | 24.46 | 20.92 |
| FRCCFLTSXBA1541122020105 01 | 441. | 3284. | 85.0 | 13.70 | 3.91 | 57.84 | 17.61 | 0.00 | 23.60 | 10.41 | 68.25 | 20.78 |
| FRCCFLTSXBA1541132020105 01 | 430. | 3202. | 85.0 | 10.88 | 2.91 | 44.15 | 13.79 | 0.00 | 38.30 | 16.47 | 60.62 | 18.93 |
| VACA TSXBA0641101020105 01 | 270. | 2010. | 85.0 | 12.11 | 3.35 | 31.09 | 15.46 | 0.00 | 38.30 | 10.34 | 41.43 | 20.61 |
| VACA TSXBA0641102020105 01 | 1100. | 8191. | 85.0 | 11.56 | 3.35 | 122.14 | 14.91 | 0.00 | 29.80 | 32.78 | 154.92 | 18.91 |
| VACA TSXBA0642101020105 01 | 270. | 2010. | 85.0 | 12.88 | 3.35 | 32.64 | 16.24 | 0.00 | 36.20 | 9.77 | 42.42 | 21.10 |
| TVA TSXBA0641221020105 01 | 2448. | 18229. | 85.0 | 9.32 | 3.35 | 231.02 | 12.67 | 0.00 | 43.30 | 106.00 | 337.02 | 18.49 |
| TVA TSXBA0641222020105 01 | 477. | 3552. | 85.0 | 9.43 | 3.35 | 45.42 | 12.79 | 0.00 | 43.50 | 20.75 | 66.17 | 18.63 |
| TVA TSXBA0641222020705 01 | 467. | 3477. | 85.0 | 9.49 | 3.35 | 44.65 | 12.84 | 0.00 | 43.50 | 20.31 | 64.97 | 18.68 |
| VACAVATSBBA0341092020105 01 | 373. | 2777. | 85.0 | 11.19 | 3.35 | 40.38 | 14.54 | 0.00 | 43.50 | 16.23 | 56.61 | 20.38 |
| MACE TSABA0141011020206 01 | 600. | 4468. | 85.0 | 13.52 | 2.80 | 72.87 | 16.31 | 0.00 | 43.50 | 26.10 | 98.97 | 22.15 |
| FRCCFLTSABA1541132020105 01 | 842. | 6270. | 85.0 | 13.16 | 2.91 | 100.73 | 16.07 | 0.00 | 43.30 | 36.46 | 137.19 | 21.88 |
| VACAWVTSABA0641052020105 01 | 1066. | 7938. | 85.0 | 8.00 | 3.35 | 90.15 | 11.36 | 0.00 | 43.50 | 46.37 | 136.52 | 17.20 |
| ECAO TSZBA0641051020105 01 | 1920. | 14297. | 85.0 | 8.04 | 3.35 | 162.89 | 11.39 | 0.00 | 43.30 | 83.14 | 246.03 | 17.21 |
| FRCCFLTSZBA1541122020105 01 | 439. | 3269. | 85.0 | 12.52 | 3.91 | 53.69 | 16.43 | 0.00 | 36.20 | 15.89 | 69.59 | 21.29 |
| VACA TSZBA0641052020105 01 | 521. | 3880. | 85.0 | 8.20 | | | | | | | | |

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 3.35    44.81    11.55     0.00    43.30    22.56    67.37    17.37
ECAO  TCOLA0641202020105 01                   268.    1996.     85.0     7.41
 3.35    21.48    10.76     0.00    23.60     6.32    27.81    13.93
MACW  TCOLA0241052050705 01                   520.    3872.     85.0     7.66
 3.35    42.64    11.01     0.00    23.60    12.27    54.92    14.18
MANO  TCOLA0411182020105 01                    18.     134.     85.0     7.63
 3.35     1.47    10.98     0.00    23.60     0.42     1.90    14.15
TVA MSTCOLA1641242020105 01                   440.    3276.     85.0    11.04
 3.91    48.99    14.95     0.00    23.60    10.38    59.37    18.12
SPPNMOTCOLA0541252020105 01                   540.    4021.     85.0     8.05
 3.35    45.86    11.40     0.00    23.60    12.74    58.60    14.57
RMPA  TCOLA0831402020105 01                    80.     596.     85.0     7.52
 3.91     6.81    11.43     0.00    23.60     1.89     8.69    14.60
MACW  TSFBA0241412020105 01                   650.    4840.     85.0     9.59
 3.35    62.62    12.94     0.00    38.30    24.89    87.52    18.08
ECAO  TSXBE0232041020207 01                   194.    1341.     78.9    11.03
 3.25    19.14    14.28     0.00    43.30     8.40    27.54    20.54
ECAO  TSXBE0242041020207 01                   109.     812.     85.0     9.82
 3.29    10.64    13.11     0.00    43.30     4.72    15.36    18.93
MACE  TSZBD0241032020707 01                   144.     995.     78.9    13.53
 3.25    16.70    16.78     0.00    43.10     6.21    22.91    23.02
MECS  TCOLE0411391030308 01                    20.     149.     85.0    12.56
 3.29     2.36    15.85     0.00    43.30     0.87     3.23    21.67
MANO  TCOLD0431182050307 01                    42.     313.     85.0     8.86
 3.29     3.80    12.16     0.00    23.30     0.98     4.78    15.28
VACAVATCOLD0331092050308 01                    57.     424.     85.0    12.34
 3.29     6.64    15.63     0.00    23.30     1.33     7.96    18.76
SPPNMOTSCSA0541282020306 01                   550.    4095.     85.0     9.73
 3.35    53.57    13.08     0.00    43.30    23.82    77.39    18.90
NENG  TSDBD2831012020107 01                    78.     581.     85.0    14.81
 3.85    10.84    18.66     0.00    43.10     3.36    14.20    24.45
ECAO  TSVBA0641201010105 01                   141.    1050.     85.0     8.25
 3.35    12.18    11.60     0.00    43.50     6.13    18.32    17.44
ECAOINTSVBA0441181020105 01                   619.    4609.     85.0     8.57
 3.35    54.97    11.93     0.00    36.20    22.41    77.38    16.79
ECAOINTSVBA0441182020105 01                   865.    6441.     85.0     8.47
 3.35    76.13    11.82     0.00    36.80    31.83   107.97    16.76
MACE  TSDBA0141011020206 01                   642.    4781.     85.0    13.17
 2.80    76.33    15.97     0.00    43.50    27.93   104.26    21.81
TVA KYTSEBA0641201010105 01                   977.    7275.     85.0     8.29
 3.35    84.73    11.65     0.00    43.30    42.30   127.03    17.46
NENG  CPC  1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CPC  1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCPC  32    (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCPC  32    (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CPC  1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CPC  1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CPC  1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CPC  1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CPC  1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CPC  1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LILC CPC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC CPC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CPC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CPC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CPC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CPC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCPC 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCPC 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS CPC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS CPC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS CPC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS CPC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO CPC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO CPC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO CPC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO CPC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOCPC 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOCPC 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CPC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CPC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CPC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CPC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCPC 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCPC 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXCPC | 19 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCPC | 19 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCPC | 6 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCPC | 6 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ENTG CPC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCPC 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCPC 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CPC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CPC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CPC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CPC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Scrubbed Coal_NOx 1 | 27267. | 202774. | 84.9 | 9.66 | 3.33 | 2633.96 | 12.99 | 0.00 | 38.49 | 1049.57 | 3683.53 | 18.17 |
| ECAO TCOLS0231411020703 01 | 176. | 1103. | 71.6 | 10.19 | 2.94 | 14.49 | 13.13 | 0.00 | 43.00 | 7.57 | 22.06 | 19.99 |
| ECAO TCOLS0611182020703 01 | 53. | 395. | 85.0 | 8.82 | 2.94 | 4.64 | 11.76 | 0.00 | 43.00 | 2.28 | 6.92 | 17.53 |
| ECAO TCOLS0631041050303 01 | 84. | 581. | 78.9 | 9.40 | 2.94 | 7.17 | 12.34 | 0.00 | 23.10 | 1.94 | 9.11 | 15.69 |
| MACW TCOLS0231412050304 01 | 32. | 238. | 85.0 | 10.19 | 2.94 | 3.13 | 13.13 | 0.00 | 23.10 | 0.74 | 3.87 | 16.23 |
| WUMSWITCOLS1231391020104 01 | 80. | 499. | 71.2 | 12.56 | 2.94 | 7.73 | 15.50 | 0.00 | 43.00 | 3.44 | 11.17 | 22.39 |
| MAPP TCOLS1111252020203 01 | 76. | 566. | 85.0 | 11.47 | 2.94 | 8.15 | 14.41 | 0.00 | 43.00 | 3.27 | 11.42 | 20.18 |
| VACANCTCOLS0641102050304 01 | 167. | 1244. | 85.0 | 12.95 | 2.94 | 19.76 | 15.89 | 0.00 | 23.10 | 3.86 | 23.61 | 18.99 |
| VACAVATCOLS0331092050304 01 | 35. | 261. | 85.0 | 12.34 | 2.94 | 3.98 | 15.28 | 0.00 | 23.10 | 0.81 | 4.79 | 18.38 |
| VACA TABS 0631042050304 01 | 74. | 551. | 85.0 | 9.14 | 2.94 | 6.65 | 12.08 | 0.00 | 23.10 | 1.71 | 8.36 | 15.18 |
| TVA TSWBS0642202030303 01 | 124. | 923. | 85.0 | 8.77 | 2.94 | 10.81 | 11.71 | 0.00 | 23.10 | 2.86 | 13.68 | 14.81 |
| MAPP TSWLS0732312030103 02 | 74. | 462. | 71.2 | 11.00 | 2.94 | 6.44 | 13.94 | 0.00 | 43.00 | 3.18 | 9.62 | 20.84 |
| MAPP TSWSS1132261030103 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.60 | 0.00 | 0.00 | 0.00 |
| ECAOOHTOLBS0432142020304 01 | 49. | 203. | 47.3 | 12.46 | 2.94 | 3.13 | 15.40 | 0.00 | 42.70 | 2.09 | 5.22 | 25.71 |
| WUMSWITOLBS1312162030304 01 | 22. | 164. | 85.0 | 12.06 | 2.94 | 2.46 | 15.00 | 0.00 | 43.00 | 0.95 | 3.40 | 20.77 |
| MANO TOLBS0432191010103 01 | 86. | 594. | 78.9 | 8.95 | | | | | | | | |

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 2.94     7.07    11.89     0.00    42.70     3.67    10.74    18.07
MANO  TOLBS0432192010203 01                    88.     655.     85.0     8.96
 2.94     7.80    11.90     0.00    42.70     3.76    11.56    17.64
RMPA  TRRBS0832342030304 01                   100.     639.     72.9    10.19
 2.94     8.39    13.13     0.00    23.10     2.31    10.70    16.75
MACWPATSABS0241032020103 01                   125.     864.     78.9    13.70
 2.94    14.38    16.64     0.00    43.00     5.38    19.75    22.87
RMPA  TSABS0841341020303 01                   158.    1177.     85.0     8.85
 2.94    13.87    11.79     0.00    43.00     6.79    20.66    17.56
RMPA  TSABS0841341020304 01                   107.     797.     85.0     8.80
 2.94     9.36    11.74     0.00    43.00     4.60    13.96    17.52
RMPA  TSABS0841342020303 01                   352.    2621.     85.0     8.41
 2.94    29.75    11.35     0.00    42.70    15.03    44.78    17.09
RMPA  TSABS0841342020304 01                   446.    3083.     78.9     9.19
 2.94    37.40    12.13     0.00    42.80    19.09    56.48    18.32
NWPE  TSABS0841352020104 01                  1380.    6557.     54.3    12.68
 2.94   102.39    15.62     0.00    42.70    58.91   161.30    24.60
ECAOOHTSEBS0431141010103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
MAPP  TSEBS1142252020103 01                   217.    1214.     63.9    11.77
 2.94    17.86    14.71     0.00    43.00     9.33    27.19    22.39
FRCCFLTSEBS1541132020103 01                   844.    6285.     85.0    12.86
 2.94    99.32    15.80     0.00    42.70    36.04   135.36    21.54
WUMSWITSGBS1231392020104 01                    80.     499.     71.2    12.41
 2.94     7.66    15.35     0.00    43.00     3.44    11.10    22.24
MANOILTSGBS0412191020703 01                    22.     164.     85.0     9.46
 2.94     2.03    12.40     0.00    43.00     0.95     2.98    18.18
FRCCFLTSGBS1531132020103 01                    88.     655.     85.0    12.92
 2.94    10.39    15.86     0.00    43.00     3.78    14.18    21.64
FRCCFLTSGBS1532132020103 01                    87.     648.     85.0    13.42
 2.94    10.60    16.36     0.00    43.00     3.74    14.34    22.14
FRCCFLTSGBS1541132020103 01                   356.    2651.     85.0    12.86
 2.94    41.89    15.80     0.00    43.00    15.31    57.20    21.58
MAPP  TSISS1132262020703 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
MAPP  TSISS1141262020703 01                   350.    2183.     71.2    11.86
 2.94    32.32    14.80     0.00    42.70    14.95    47.26    21.65
ENTGMOTSISS0541272020103 01                   670.    4989.     85.0    11.80
 2.94    73.55    14.74     0.00    35.60    23.85    97.41    19.52
SPPNMOTSUBS0541272020103 01                   178.    1110.     71.2    10.28
 2.94    14.68    13.22     0.00    37.70     6.71    21.39    19.26
AZNM  TSUBS0841361020203 01                   365.    2718.     85.0    11.47
 2.94    39.15    14.41     0.00    35.60    12.99    52.15    19.19
AZNM  TSUBS0841352020203 01                  2250.   16754.     85.0    11.91
 2.94   248.72    14.85     0.00    42.70    96.08   344.80    20.58
AZNM  TSUBS0841362020203 01                  1095.    8154.     85.0    11.56
 2.94   118.26    14.50     0.00    35.60    38.98   157.24    19.29
AZNM  TSUBS0841362020304 01                   720.    5361.     85.0    10.10
 2.94    69.93    13.04     0.00    29.40    21.17    91.10    16.99
AZNM  TSUBS0841362020703 01                   355.    2643.     85.0    11.64
 2.94    38.53    14.58     0.00    41.30    14.66    53.20    20.12
RMPA  TSUBS0841332020304 01                   262.    1951.     85.0     8.26
 2.94    21.86    11.20     0.00    35.60     9.33    31.18    15.98
RMPA  TSUBS0842332020203 01                   856.    6374.     85.0     8.39
 2.94    72.23    11.33     0.00    35.60    30.47   102.71    16.11
RMPA  TSUBS0842332020304 01                   519.    3865.     85.0     8.38
 2.94    43.76    11.32     0.00    36.10    18.74    62.49    16.17
ECAO  TSVBS0641201020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    42.70     0.00     0.00     0.00
ECAO  TSVBS0641202020103 01                   401.    2986.     85.0     7.73
 2.94    31.85    10.67     0.00    42.70    17.12    48.98    16.40
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOINTSVBS0431182020103 01 | 85. | 633. | 85.0 | 7.61 | 2.94 | 6.68 | 10.55 | 0.00 | 43.00 | 3.65 | 10.33 | 16.33 |
| ECAOINTSVBS0432181020103 01 | 90. | 622. | 78.9 | 9.94 | 2.94 | 8.01 | 12.88 | 0.00 | 43.00 | 3.87 | 11.88 | 19.10 |
| ECAOINTSVBS0441181010103 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.80 | 0.00 | 0.00 | 0.00 |
| ECAOINTSVBS0441182020103 01 | 1664. | 12391. | 85.0 | 8.77 | 2.94 | 145.13 | 11.71 | 0.00 | 37.10 | 61.73 | 206.86 | 16.69 |
| MECS TSXBS0432392020103 01 | 65. | 449. | 78.9 | 13.30 | 2.94 | 7.30 | 16.24 | 0.00 | 35.60 | 2.31 | 9.61 | 21.39 |
| MECS TSXBS0432392020203 01 | 50. | 280. | 63.9 | 14.13 | 2.94 | 4.78 | 17.07 | 0.00 | 35.60 | 1.78 | 6.56 | 23.43 |
| ECAO TSXBS0241042020103 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.20 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBS0241042020703 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 37.70 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBS0242412020703 01 | 134. | 926. | 78.9 | 11.14 | 2.94 | 13.04 | 14.08 | 0.00 | 43.00 | 5.76 | 18.80 | 20.30 |
| ECAO TSXBS0441142020103 01 | 750. | 5585. | 85.0 | 10.87 | 2.94 | 77.13 | 13.81 | 0.00 | 36.70 | 27.53 | 104.65 | 18.74 |
| ECAO TSXBS0641201020103 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.80 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBS0641042020103 01 | 1228. | 9144. | 85.0 | 8.84 | 2.94 | 107.68 | 11.78 | 0.00 | 35.60 | 43.72 | 151.40 | 16.56 |
| ECAO TSXBS0641202020103 01 | 993. | 7394. | 85.0 | 8.46 | 2.94 | 84.31 | 11.40 | 0.00 | 41.80 | 41.51 | 125.82 | 17.02 |
| ECAO TSXBS0642201020103 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 43.00 | 0.00 | 0.00 | 0.00 |
| WUMS TSXBS0432392020304 01 | 44. | 211. | 54.6 | 14.54 | 2.94 | 3.68 | 17.48 | 0.00 | 35.60 | 1.57 | 5.25 | 24.91 |
| MANO TSXBS0441191020103 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 37.70 | 0.00 | 0.00 | 0.00 |
| MANO TSXBS0441192020103 01 | 190. | 1415. | 85.0 | 8.46 | 2.94 | 16.13 | 11.40 | 0.00 | 35.60 | 6.76 | 22.90 | 16.18 |
| MAPP TSXBS1142272020103 01 | 161. | 974. | 69.1 | 12.99 | 2.94 | 15.52 | 15.93 | 0.00 | 35.60 | 5.73 | 21.25 | 21.82 |
| UPNY TSXBS0141022020103 01 | 149. | 1109. | 85.0 | 11.60 | 2.94 | 16.13 | 14.54 | 0.00 | 43.00 | 6.41 | 22.54 | 20.32 |
| VACA TSXBS0641101020103 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.60 | 0.00 | 0.00 | 0.00 |
| VACA TSXBS0641102020304 01 | 385. | 2867. | 85.0 | 12.63 | 2.94 | 44.63 | 15.57 | 0.00 | 23.10 | 8.89 | 53.52 | 18.67 |
| SOU TSXBS0641222020203 01 | 472. | 3515. | 85.0 | 10.06 | 2.94 | 45.69 | 13.00 | 0.00 | 35.60 | 16.80 | 62.50 | 17.78 |
| SOU TSXBS0642112020103 01 | 102. | 760. | 85.0 | 14.07 | 2.94 | 12.92 | 17.01 | 0.00 | 43.00 | 4.39 | 17.30 | 22.78 |
| SOU MSTSXBS1641291020203 01 | 200. | 1489. | 85.0 | 12.02 | 2.94 | 22.28 | 14.96 | 0.00 | 35.60 | 7.12 | 29.40 | 19.74 |

SOU MSTSXBS1641292020203 01 200. 1489. 85.0 12.02
2.94 22.28 14.96 0.00 35.60 7.12 29.40 19.74
AZNM TSXBS0841362020303 01 275. 2048. 85.0 11.67
2.94 29.93 14.61 0.00 35.60 9.79 39.72 19.40
AZNM TSXBS0841362020703 01 220. 1638. 85.0 11.79
2.94 24.12 14.73 0.00 42.80 9.42 33.54 20.47
AZNM TSXBS0842362020703 01 110. 819. 85.0 12.24
2.94 12.43 15.18 0.00 37.70 4.15 16.58 20.24
NWPE TSXBS0841332020103 01 1250. 9308. 85.0 7.81
2.94 100.02 10.75 0.00 36.30 45.38 145.40 15.62
NWPE TSXBS0841402020103 01 2410. 17890. 84.7 8.55
2.94 205.62 11.49 0.00 42.30 101.94 307.56 17.19
NWPE TSXBS0841332020303 01 2440. 18169. 85.0 7.79
2.94 194.94 10.73 0.00 35.60 86.86 281.81 15.51
NWPE TSXBS0841362020304 01 274. 1894. 78.9 11.24
2.94 26.85 14.18 0.00 35.60 9.75 36.60 19.33
ERCTTXTSXLS2341302020103 02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 35.60 0.00 0.00 0.00
ERCTTXTSXLS2342302020103 02 4152. 30918. 85.0 14.33
2.94 533.98 17.27 0.00 36.00 149.48 683.46 22.11
ERCTTXTSXLS2342302030303 02 300. 2234. 85.0 13.85
2.94 37.50 16.79 0.00 23.10 6.93 44.43 19.89
MAPPNDTSXLS0732312020304 02 69. 514. 85.0 8.97
2.94 6.12 11.91 0.00 35.60 2.46 8.58 16.69
MAPPNDTSXLS0741311020103 02 604. 4498. 85.0 8.60
2.94 51.91 11.54 0.00 35.60 21.50 73.41 16.32
MAPPNDTSXLS0742311010103 02 420. 3127. 85.0 9.59
2.94 39.20 12.53 0.00 37.70 15.83 55.03 17.60
MAPPNDTSXLS0742312010304 02 421. 3135. 85.0 9.40
2.94 38.69 12.34 0.00 35.60 14.99 53.68 17.12
MAPPNDTSXLS0742312020304 02 900. 6702. 85.0 9.05
2.94 80.39 11.99 0.00 35.60 32.04 112.43 16.78
SPPSLATSXLS1041302020103 02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 35.60 0.00 0.00 0.00
SPPSTXTSXLS2341302020103 02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 35.60 0.00 0.00 0.00
ERCTTXTSXSS1941292020303 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 35.60 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 435. 3239. 85.0 13.90
2.94 54.55 16.84 0.00 35.60 15.49 70.04 21.62
ERCTTXTSXSS2341292020303 01 530. 3947. 85.0 13.25
2.94 63.90 16.19 0.00 23.10 12.24 76.14 19.29
ERCTTXTSXSS3541292020103 01 676. 5034. 85.0 13.54
2.94 82.93 16.48 0.00 35.60 24.07 107.00 21.26
SPPS TSXSS3642282020104 01 520. 3872. 85.0 10.14
2.94 50.63 13.08 0.00 35.60 18.51 69.15 17.86
AZNM TSXSS0841351020303 01 1480. 11021. 85.0 11.75
2.94 161.90 14.69 0.00 42.70 63.20 225.10 20.43
AZNM TSXSS0841352020203 01 498. 3708. 85.0 12.64
2.94 57.76 15.58 0.00 35.60 17.73 75.49 20.36
AZNM TSXSS0841352020303 01 235. 1750. 85.0 12.66
2.94 27.30 15.60 0.00 35.60 8.37 35.66 20.38
AZNM TSXSS0842351020203 01 312. 2323. 85.0 15.65
2.94 43.20 18.59 0.00 42.70 13.32 56.52 24.33
AZNM TSXSS0842351020703 01 220. 1638. 85.0 13.41
2.94 26.79 16.35 0.00 43.00 9.46 36.25 22.13
AZNM TSXSS0842352020203 01 804. 5987. 85.0 14.43
2.94 103.99 17.37 0.00 36.50 29.35 133.34 22.27
AZNM TSXSS0842352020703 01 340. 2532. 85.0 13.08
2.94 40.55 16.02 0.00 43.00 14.62 55.17 21.79
RMPA TSXSS0832402020104 01 80. 596. 85.0 9.80
2.94 7.59 12.74 0.00 23.10 1.85 9.44 15.84

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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NWPE TSXSS0741322020703 01 | 700. | 5212. | 85.0 | 6.34 | 2.94 | 48.37 | 9.28 | 0.00 | 35.60 | 24.92 | 73.29 | 14.06 |
| NWPE TSXSS0742322020703 01 | 1360. | 10127. | 85.0 | 6.83 | 2.94 | 98.97 | 9.77 | 0.00 | 36.60 | 49.78 | 148.74 | 14.69 |
| ECAO TSYBS0432192020204 01 | 63. | 435. | 78.9 | 9.96 | 2.94 | 5.62 | 12.90 | 0.00 | 42.70 | 2.69 | 8.31 | 19.08 |
| ECAO TSYBS0441192020103 01 | 1722. | 12823. | 85.0 | 7.84 | 2.94 | 138.23 | 10.78 | 0.00 | 35.60 | 61.30 | 199.54 | 15.56 |
| ECAOOHTSYBS0441042020103 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.10 | 0.00 | 0.00 | 0.00 |
| MACW TSYBS0241412020103 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.70 | 0.00 | 0.00 | 0.00 |
| MANO TSYBS0441191010103 01 | 170. | 1066. | 71.6 | 9.36 | 2.94 | 13.11 | 12.30 | 0.00 | 35.60 | 6.05 | 19.16 | 17.98 |
| SPPN TSYBS1741281010703 01 | 682. | 4619. | 77.3 | 11.42 | 2.94 | 66.33 | 14.36 | 0.00 | 42.70 | 29.12 | 95.45 | 20.67 |
| SPPN TSYBS1741282020703 01 | 370. | 2755. | 85.0 | 11.08 | 2.94 | 38.63 | 14.02 | 0.00 | 42.70 | 15.80 | 54.43 | 19.76 |
| SPPN TSYBS1742282020703 01 | 113. | 705. | 71.2 | 12.42 | 2.94 | 10.83 | 15.36 | 0.00 | 43.00 | 4.86 | 15.69 | 22.26 |
| MAPP TSYSS1141262020304 01 | 871. | 6486. | 85.0 | 10.98 | 2.94 | 90.25 | 13.92 | 0.00 | 35.60 | 31.01 | 121.26 | 18.70 |
| MAPP TSYSS1142262020203 01 | 535. | 3862. | 82.4 | 11.85 | 2.94 | 57.10 | 14.79 | 0.00 | 35.60 | 19.05 | 76.15 | 19.72 |
| MAPP TSYSS1142262020703 01 | 1424. | 10604. | 85.0 | 11.76 | 2.94 | 155.88 | 14.70 | 0.00 | 37.70 | 53.68 | 209.57 | 19.76 |
| SPPN TSYSS1741282020304 01 | 331. | 2465. | 85.0 | 9.73 | 2.94 | 31.23 | 12.67 | 0.00 | 35.60 | 11.78 | 43.01 | 17.45 |
| SPPN TSYSS1742282020103 01 | 2136. | 15905. | 85.0 | 10.34 | 2.94 | 211.17 | 13.28 | 0.00 | 35.60 | 76.04 | 287.21 | 18.06 |
| ECAO TSZBS0431142010103 01 | 69. | 477. | 78.9 | 11.02 | 2.94 | 6.66 | 13.96 | 0.00 | 43.00 | 2.97 | 9.62 | 20.18 |
| MACE TSZBS0241032020203 01 | 581. | 4318. | 84.8 | 13.05 | 2.94 | 69.03 | 15.99 | 0.00 | 42.90 | 24.92 | 93.95 | 21.76 |
| FRCCFLTSZBS1541121020103 01 | 957. | 7126. | 85.0 | 12.72 | 2.94 | 111.59 | 15.66 | 0.00 | 35.60 | 34.07 | 145.66 | 20.44 |
| FRCCFLTSZBS1541122020103 01 | 2315. | 17238. | 85.0 | 12.82 | 2.94 | 271.74 | 15.76 | 0.00 | 35.60 | 82.41 | 354.15 | 20.54 |
| MAPPWYTSZLS0841322020103 01 | 550. | 4095. | 85.0 | 6.36 | 2.94 | 38.09 | 9.30 | 0.00 | 35.60 | 19.58 | 57.67 | 14.08 |
| RMPAWYTSZLS0841322020103 01 | 1100. | 8191. | 85.0 | 6.33 | 2.94 | 75.90 | 9.27 | 0.00 | 35.60 | 39.16 | 115.06 | 14.05 |
| NWPEWYTSZLS0841322020703 01 | 330. | 2457. | 85.0 | 6.52 | 2.94 | 23.24 | 9.46 | 0.00 | 42.70 | 14.09 | 37.33 | 15.19 |
| NWPEWYTSZLS0842322020104 01 | 335. | 2495. | 85.0 | 7.25 | 2.94 | 25.42 | 10.19 | 0.00 | 35.60 | 11.93 | 37.34 | 14.97 |
| MAPP TSASS0732312020703 01 | 44. | 328. | 85.0 | 11.18 | 2.94 | 4.63 | 14.12 | 0.00 | 43.00 | 1.89 | 6.52 | 19.89 |

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RMPA  TSASS0841342020303 01                    178.    1325.     85.0     9.18
 2.94    16.06    12.12     0.00    43.00     7.65    23.71    17.89
ECAOOHTSBBS0441041020304 01                    132.     912.     78.9    11.23
 2.94    12.93    14.17     0.00    43.00     5.68    18.60    20.39
SPPNMOTSBSS0542282020103 01                    308.    1921.     71.2    10.83
 2.94    26.45    13.77     0.00    43.00    13.24    39.69    20.66
PNW WATSBSS0741372020103 01                   1340.    9978.     85.0     9.99
 2.94   129.01    12.93     0.00    42.70    57.22   186.23    18.66
SPPNMOTSDSS0541282020103 01                    670.    4989.     85.0     9.39
 2.94    61.52    12.33     0.00    35.60    23.85    85.38    17.11
SPPN  TSESS1741282020103 01                    668.    4974.     85.0    10.10
 2.94    64.88    13.04     0.00    37.70    25.18    90.06    18.11
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Scrubbed Coal                    2           60594.  443057.     83.5    10.56
 2.94  5982.50    13.50     0.00    37.58  2277.17  8259.68    18.64

UPNY  TCOLN0131022020102 01                     47.     254.     61.8    13.71
 1.68     3.92    15.39     0.00    32.20     1.51     5.43    21.34
NENGNHTCOLN2931012020102 01                     97.     722.     85.0    15.38
 1.89    12.48    17.27     0.00    32.20     3.12    15.60    21.60
NENGNHTSABC2941011010101 01                    433.    3224.     85.0    14.27
 1.95    52.32    16.23     0.00    28.40    12.30    64.62    20.04
VACANCTSABC0641101020201 01                    700.    5212.     85.0    14.45
 1.95    85.49    16.40     0.00    18.00    12.60    98.09    18.82
SOU ALTSABC0641232020101 01                   1341.    9985.     85.0    13.40
 1.95   153.32    15.35     0.00    12.20    16.36   169.68    16.99
MACEDETSABN0241032020102 01                    403.    2255.     63.9    17.36
 1.83    43.27    19.19     0.00    17.60     7.09    50.37    22.34
ECAO  TSBBN0241041020102 01                    500.    2798.     63.9    12.15
 1.83    39.11    13.98     0.00    26.60    13.30    52.41    18.74
ECAO  TSBBN0241042020102 01                    343.    1919.     63.9    12.69
 1.83    27.87    14.52     0.00    32.20    11.04    38.91    20.28
MACE  TSBBN0231032020102 01                     84.     470.     63.9    17.45
 1.83     9.06    19.28     0.00    32.20     2.70    11.77    25.04
MACE  TSBBN0241032020102 01                    167.    1042.     71.2    16.46
 1.89    19.12    18.35     0.00    32.20     5.38    24.49    23.52
MACENJTSBBN0141031010102 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.20     0.00     0.00     0.00
VACANCTSBBN0641102020102 01                    514.    3552.     78.9    13.55
 1.85    54.69    15.40     0.00    32.20    16.55    71.24    20.06
VACAVATSBBN0341091020102 01                    389.    2177.     63.9    16.04
 1.83    38.88    17.86     0.00    32.20    12.53    51.41    23.62
VACAVATSBBN0341092020102 01                    159.    1099.     78.9    14.56
 1.85    18.03    16.41     0.00    32.20     5.12    23.15    21.06
VACAVATSBBN0341092020202 01                    156.     978.     71.6    15.33
 1.79    16.74    17.12     0.00    32.20     5.02    21.77    22.26
MACEDETSCBN0241032020102 01                    162.    1010.     71.2    15.59
 1.89    17.67    17.49     0.00    26.60     4.31    21.98    21.75
MANO  TSCSO0441182010102 01                    292.    2018.     78.9    12.94
 0.94    28.00    13.88     0.00    32.30     9.43    37.43    18.55
ECAO  TSDBC0641061020101 01                    800.    5957.     85.0    10.93
 1.95    76.72    12.88     0.00    27.00    21.60    98.32    16.50
ECAOOHTSDBC0441041020101 01                   1085.    8079.     85.0     9.17
 1.95    89.89    11.13     0.00    32.50    35.26   125.15    15.49
ECAOOHTSDBC0441042020101 01                    214.    1335.     71.2    10.23
 1.95    16.27    12.19     0.00    27.00     5.78    22.04    16.52
VACANCTSDBC0641101020101 01                   2240.   16680.     85.0    12.80
 1.95   246.00    14.75     0.00    27.00    60.48   306.48    18.37
ECAOOHTSDBN0441042020102 01                    163.    1017.     71.2     9.74
 1.89    11.83    11.63     0.00    32.20     5.25    17.08    16.79
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENG TSDBN2831012020102 01 | 76. | 428. | 64.2 | 18.11 | 2.45 | 8.79 | 20.56 | 0.00 | 32.20 | 2.45 | 11.24 | 26.29 |
| NENG TSDBN2841012020102 01 | 142. | 799. | 64.2 | 17.62 | 2.45 | 16.04 | 20.07 | 0.00 | 32.20 | 4.57 | 20.61 | 25.79 |
| ECAO TSEBC0641042020101 01 | 4200. | 31274. | 85.0 | 12.08 | 1.95 | 438.84 | 14.03 | 0.00 | 25.70 | 107.94 | 546.78 | 17.48 |
| MACS TSEBC0241072020101 01 | 324. | 2021. | 71.2 | 15.43 | 1.95 | 35.13 | 17.38 | 0.00 | 32.60 | 10.56 | 45.70 | 22.61 |
| MACS TSEBC0241072020201 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.10 | 0.00 | 0.00 | 0.00 |
| MANO TSEBC0441181010101 01 | 554. | 2652. | 54.6 | 13.41 | 1.95 | 40.74 | 15.37 | 0.00 | 27.00 | 14.96 | 55.70 | 21.01 |
| VACASCTSEBC0641102020101 01 | 1180. | 8787. | 85.0 | 13.87 | 1.95 | 139.04 | 15.82 | 0.00 | 27.00 | 31.86 | 170.90 | 19.45 |
| VACASCTSEBC0641102020401 01 | 350. | 2606. | 85.0 | 13.90 | 1.95 | 41.32 | 15.85 | 0.00 | 27.00 | 9.45 | 50.77 | 19.48 |
| TVA TSEBC0641221010101 01 | 744. | 5540. | 85.0 | 13.48 | 1.95 | 85.48 | 15.43 | 0.00 | 32.50 | 24.18 | 109.66 | 19.79 |
| ENTGMOTSEBC0541251010101 01 | 1160. | 8638. | 85.0 | 11.89 | 1.95 | 119.53 | 13.84 | 0.00 | 27.00 | 31.32 | 150.85 | 17.46 |
| ECAOOHTSEBN0441142020102 01 | 129. | 617. | 54.6 | 11.38 | 1.89 | 8.19 | 13.27 | 0.00 | 32.20 | 4.15 | 12.35 | 20.00 |
| NENG TSEBN2842012020102 01 | 31. | 127. | 47.4 | 18.64 | 2.45 | 2.67 | 21.09 | 0.00 | 32.20 | 0.98 | 3.65 | 28.85 |
| UPNY TSFBO0141022020102 01 | 105. | 782. | 85.0 | 12.64 | 0.98 | 10.65 | 13.62 | 0.00 | 32.30 | 3.39 | 14.04 | 17.96 |
| SOU TSFBC0641112020101 01 | 505. | 3760. | 85.0 | 15.71 | 1.95 | 66.43 | 17.66 | 0.00 | 27.00 | 13.63 | 80.06 | 21.29 |
| MACW TSHBC0241411020101 01 | 620. | 4617. | 85.0 | 9.84 | 1.95 | 54.45 | 11.79 | 0.00 | 27.00 | 16.74 | 71.19 | 15.42 |
| MACW TSHBC0241412020101 01 | 2119. | 15779. | 85.0 | 9.50 | 1.95 | 180.74 | 11.45 | 0.00 | 27.00 | 57.21 | 237.95 | 15.08 |
| SOU TSHBC0641112020101 01 | 4948. | 36844. | 85.0 | 14.16 | 1.95 | 593.80 | 16.12 | 0.00 | 26.30 | 130.13 | 723.93 | 19.65 |
| NENGNHTSLBN2932012020102 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.20 | 0.00 | 0.00 | 0.00 |
| MACW TSZBN0241031020102 01 | 136. | 363. | 30.5 | 16.82 | 1.45 | 6.63 | 18.27 | 0.00 | 32.20 | 4.38 | 11.01 | 30.34 |
| SPPS TSASN3642282020102 01 | 490. | 3649. | 85.0 | 10.33 | 2.45 | 46.63 | 12.78 | 0.00 | 17.60 | 8.62 | 55.26 | 15.14 |
| ECAO TSBBC0641062020101 01 | 225. | 1403. | 71.2 | 12.58 | 1.95 | 20.40 | 14.54 | 0.00 | 27.00 | 6.08 | 26.48 | 18.87 |
| ECAO TSBBC0641062020201 01 | 300. | 1871. | 71.2 | 12.83 | 1.95 | 27.66 | 14.78 | 0.00 | 22.00 | 6.60 | 34.26 | 18.31 |
| ECAOOHTSBBC0441041020201 01 | 630. | 3930. | 71.2 | 11.97 | 1.95 | 54.71 | 13.92 | 0.00 | 22.00 | 13.86 | 68.57 | 17.45 |
| VACANCTSBBC0641101020101 01 | 385. | 2867. | 85.0 | 13.14 | 1.95 | 43.27 | 15.09 | 0.00 | 32.50 | 12.51 | 55.78 | 19.46 |

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VACANCTSBBC0641102020101 01                    354.    2636.     85.0    13.45
 1.95    40.61    15.41     0.00    27.00     9.56    50.17    19.03
VACAVATSBBC0341092020101 01                   1150.    8563.     85.0    14.20
 1.95   138.32    16.15     0.00    29.30    33.70   172.01    20.09
MACEVATOLBO0332092020202 01                    176.     889.     57.7    18.57
 0.96    17.37    19.53     0.00    32.30     5.68    23.05    25.93
MACEVATOLBO0341092020202 01                    306.    1909.     71.2    15.13
 0.98    30.75    16.11     0.00    32.30     9.88    40.63    21.29
VACANCTOLBO0632102020202 01                     76.     425.     63.9    15.88
 0.92     7.14    16.80     0.00    32.30     2.45     9.60    22.58
ECAOOHTSCBC0441041020101 01                    500.    3119.     71.2    12.80
 1.95    46.01    14.75     0.00    18.00     9.00    55.01    17.64
TVA   TSCBC0641212020101 01                    879.    6545.     85.0    11.78
 1.95    89.89    13.73     0.00    32.50    28.57   118.46    18.10
TVA   TSCBC0641212020201 01                   1434.   10678.     85.0    12.47
 1.95   153.96    14.42     0.00    32.60    46.75   200.71    18.80
WUMSWITSDSO1332392020102 01                     82.     511.     71.2    13.54
 1.54     7.71    15.08     0.00    32.30     2.65    10.36    20.26
ECAOWVTSFBN0641042020102 01                    555.    3836.     78.9    11.37
 1.85    50.72    13.22     0.00    26.60    14.76    65.48    17.07
UPNY  TSFBN0131022020102 01                    210.    1564.     85.0    13.17
 1.89    23.56    15.06     0.00    32.20     6.76    30.32    19.39
VACANCTSGBC0641102020101 01                    562.    4185.     85.0    14.38
 1.95    68.34    16.33     0.00    27.00    15.17    83.51    19.96
ECAOOHTSGBN0441142020102 01                    597.    3724.     71.2    10.70
 1.89    46.91    12.60     0.00    26.60    15.88    62.79    16.86
MACSMDTSHBO0241081010302 01                    380.    2126.     63.9    14.96
 0.92    33.77    15.88     0.00    32.30    12.27    46.04    21.66
VACA  TSHBO0632102020202 01                    200.    1082.     61.7    17.47
 0.90    19.87    18.37     0.00    32.30     6.46    26.33    24.34
ECAO  TSHBN0441041020102 01                    600.    3357.     63.9    12.54
 1.83    48.25    14.37     0.00    26.60    15.96    64.21    19.13
ECAO  TSHBN0441042020102 01                    600.    4147.     78.9    12.42
 1.85    59.17    14.27     0.00    26.60    15.96    75.13    18.12
ECAO  TSHBN0441042020302 01                    180.    1007.     63.9    13.19
 1.83    15.12    15.01     0.00    32.20     5.80    20.92    20.77
MECS  TSJBO0412392020202 01                     20.     149.     85.0    13.16
 0.98     2.11    14.15     0.00    32.30     0.65     2.75    18.48
VACANCTSKBO0632102020202 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.30     0.00     0.00     0.00
SOU   TSKBC0641232020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAO  TSLBC0441181020101 01                    569.    3548.     71.2    11.41
 1.95    47.40    13.36     0.00    27.00    15.36    62.76    17.69
ECAO  TSLBC0441182020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    18.00     0.00     0.00     0.00
MACE  TCOLC0141012050301 01                    200.     957.     54.6    19.24
 1.95    20.29    21.20     0.00    12.20     2.44    22.73    23.75
MECSMITSFSC0441392020101 01                   3000.   22339.     85.0    11.60
 1.95   302.73    13.55     0.00    27.00    81.00   383.73    17.18
ECAO  TSGSC0441201020101 01                   1022.    6476.     72.3    12.63
 1.95    94.43    14.58     0.00    32.50    33.22   127.64    19.71
ECAOOHTSIBC0441041020101 01                   1014.    7551.     85.0     9.59
 1.95    87.16    11.54     0.00    32.60    33.06   120.21    15.92
TVA   TSLSC0641222020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01                    500.    3723.     85.0    12.10
 1.95    52.32    14.05     0.00    18.00     9.00    61.32    16.47
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Unscrubbed Coal_NOx            3           44807.  316182.     80.6    12.65
 1.92  4605.71    14.57     0.00    27.10  1214.32  5820.03    18.41
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 7

Total Annual Costs

Year: 2005

| Region | Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MECS | TCOLU0411392050710 01 | 22. | 164. | 85.0 | 12.27 | 1.54 | 2.26 | 13.81 | 0.00 | 31.80 | 0.70 | 2.96 | 18.08 |
| MECS | TCOLU0431152020110 01 | 45. | 33. | 8.5 | 15.64 | 1.54 | 0.57 | 17.18 | 0.00 | 32.00 | 1.44 | 2.01 | 60.35 |
| MECS | TCOLU0431392020110 01 | 253. | 1416. | 63.9 | 12.30 | 1.54 | 19.59 | 13.84 | 0.00 | 32.00 | 8.10 | 27.69 | 19.56 |
| ECAO | TCOLU0211412050710 01 | 8. | 60. | 85.0 | 13.19 | 1.54 | 0.88 | 14.73 | 0.00 | 32.00 | 0.26 | 1.13 | 19.03 |
| ECAO | TCOLU0231082020110 01 | 28. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.90 | 0.90 | 0.00 |
| ECAO | TCOLU0241082050710 01 | 204. | 1313. | 73.5 | 15.92 | 1.54 | 22.93 | 17.46 | 0.00 | 11.70 | 2.39 | 25.32 | 19.28 |
| ECAO | TCOLU0411181050710 01 | 39. | 290. | 85.0 | 13.54 | 1.54 | 4.38 | 15.08 | 0.00 | 32.00 | 1.25 | 5.63 | 19.38 |
| ECAO | TCOLU0411142050710 01 | 111. | 827. | 85.0 | 12.44 | 1.54 | 11.56 | 13.98 | 0.00 | 32.00 | 3.55 | 15.11 | 18.28 |
| ECAO | TCOLU0431041020110 01 | 123. | 328. | 30.5 | 13.13 | 1.54 | 4.81 | 14.67 | 0.00 | 32.00 | 3.94 | 8.75 | 26.66 |
| ECAO | TCOLU0431141020110 01 | 94. | 251. | 30.5 | 13.51 | 1.54 | 3.77 | 15.05 | 0.00 | 32.00 | 3.01 | 6.78 | 27.04 |
| ECAO | TCOLU0431142020110 01 | 106. | 283. | 30.5 | 13.51 | 1.54 | 4.25 | 15.05 | 0.00 | 32.00 | 3.39 | 7.65 | 27.04 |
| ECAO | TCOLU0431182020110 01 | 179. | 795. | 50.7 | 12.53 | 1.54 | 11.18 | 14.07 | 0.00 | 32.00 | 5.73 | 16.91 | 21.28 |
| ECAO | TCOLU0431192020110 01 | 155. | 867. | 63.9 | 9.99 | 1.54 | 10.00 | 11.53 | 0.00 | 32.00 | 4.96 | 14.96 | 17.25 |
| ECAO | TCOLU0431042050710 01 | 72. | 298. | 47.3 | 13.34 | 1.54 | 4.44 | 14.88 | 0.00 | 32.00 | 2.30 | 6.74 | 22.61 |
| ECAO | TCOLU0611062020210 01 | 40. | 298. | 85.0 | 12.18 | 1.54 | 4.09 | 13.72 | 0.00 | 32.00 | 1.28 | 5.37 | 18.02 |
| ECAO | TCOLU0631051020110 01 | 46. | 123. | 30.5 | 12.26 | 1.54 | 1.69 | 13.80 | 0.00 | 32.00 | 1.47 | 3.17 | 25.80 |
| ECAO | TCOLU0631202020110 01 | 32. | 179. | 63.9 | 12.74 | 1.54 | 2.56 | 14.28 | 0.00 | 32.00 | 1.02 | 3.58 | 20.00 |
| ECAOVA | TCOLU0331062020110 01 | 90. | 504. | 63.9 | 13.30 | 1.54 | 7.47 | 14.84 | 0.00 | 32.00 | 2.88 | 10.35 | 20.56 |
| MACW | TCOLU0211412050210 01 | 82. | 611. | 85.0 | 13.19 | 1.54 | 8.99 | 14.73 | 0.00 | 32.00 | 2.62 | 11.62 | 19.03 |
| MACW | TCOLU0231031020310 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MACW | TCOLU0231032020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MACW | TCOLU0231412050710 01 | 82. | 392. | 54.6 | 15.88 | 1.54 | 6.84 | 17.42 | 0.00 | 11.70 | 0.96 | 7.80 | 19.86 |
| MACW | TCOLU0241412050710 01 | 218. | 1043. | 54.6 | 15.88 | 1.54 | 18.17 | 17.42 | 0.00 | 11.70 | 2.55 | 20.72 | 19.86 |
| WUMS | TCOLU0411392020710 01 | 25. | 186. | 85.0 | 12.30 | | | | | | | | |

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 1.54     2.58    13.84     0.00    32.00     0.80     3.38    18.14
WUMSWITCOLU1311162040310 01                    44.     328.     85.0    10.04
 1.54     3.79    11.58     0.00    32.00     1.41     5.20    15.88
WUMSWITCOLU1311162050710 01                    22.     164.     85.0    10.04
 1.54     1.90    11.58     0.00    32.00     0.70     2.60    15.88
WUMSWITCOLU1331392020110 01                    56.     349.     71.2    12.30
 1.54     4.83    13.84     0.00    32.00     1.79     6.63    18.97
MANO  TCOLU0431192020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01                   102.     488.     54.6    10.84
 1.54     6.04    12.38     0.00    32.00     3.26     9.31    19.06
MANOMOTCOLU0511282050710 01                    17.     127.     85.0     9.81
 1.54     1.44    11.35     0.00    32.00     0.54     1.98    15.64
MAPP  TCOLU0711312050710 01                    20.     149.     85.0     9.00
 1.54     1.57    10.54     0.00    20.80     0.42     1.99    13.33
MAPP  TCOLU0731311040110 01                    28.     208.     85.0     9.00
 1.54     2.20    10.54     0.00    32.00     0.90     3.09    14.83
MAPP  TCOLU1111261040110 01                    14.     104.     85.0    11.66
 1.54     1.38    13.20     0.00    17.40     0.24     1.62    15.53
MAPP  TCOLU1111271040210 01                    19.     141.     85.0    10.28
 1.54     1.67    11.82     0.00    32.00     0.61     2.28    16.12
MAPP  TCOLU1111261040310 01                     8.      60.     85.0    11.85
 1.54     0.80    13.39     0.00    32.00     0.26     1.05    17.69
MAPP  TCOLU1111252020110 01                    31.     231.     85.0     9.30
 1.54     2.50    10.84     0.00    32.00     0.99     3.50    15.14
MAPP  TCOLU1111262050710 01                   103.     767.     85.0    11.85
 1.54    10.27    13.39     0.00    32.00     3.30    13.57    17.69
MAPP  TCOLU1131261040110 01                    37.     231.     71.2    11.66
 1.54     3.05    13.20     0.00    17.40     0.64     3.69    15.99
MAPP  TCOLU1131262020110 01                    47.     293.     71.2    11.85
 1.54     3.93    13.39     0.00    32.00     1.50     5.43    18.52
MAPP  TCOLU1131272020110 01                    62.     347.     63.9    12.21
 1.54     4.77    13.75     0.00    32.00     1.98     6.76    19.47
MAPP  TCOLU1131252020210 01                    73.     408.     63.9    12.21
 1.54     5.62    13.75     0.00    32.00     2.34     7.95    19.47
MAPP  TCOLU1131262020310 01                   150.     936.     71.2    11.66
 1.54    12.35    13.20     0.00    32.00     4.80    17.15    18.33
MAPPWITCOLU1311161010710 01                    24.     179.     85.0    10.04
 1.54     2.07    11.58     0.00    32.00     0.77     2.84    15.88
MAPPWITCOLU1311162020110 01                    63.     469.     85.0     9.81
 1.54     5.32    11.35     0.00    32.00     2.02     7.34    15.64
MAPPWITCOLU1311162040210 01                    49.     365.     85.0    10.04
 1.54     4.23    11.58     0.00    32.00     1.57     5.79    15.88
UPNY  TCOLU0111022050110 01                   117.     871.     85.0    16.10
 1.54    15.36    17.64     0.00    32.00     3.74    19.11    21.93
UPNY  TCOLU0111022020210 01                    44.     328.     85.0    12.76
 1.54     4.69    14.30     0.00    32.00     1.41     6.09    18.60
UPNY  TCOLU0111022050210 01                    82.     611.     85.0    16.10
 1.54    10.77    17.64     0.00    32.00     2.62    13.39    21.93
UPNY  TCOLU0131022020110 01                    55.     228.     47.4    13.71
 1.54     3.48    15.25     0.00    32.00     1.76     5.24    22.96
NENG  TCOLU0911012050710 01                    14.     104.     85.0    19.24
 1.54     2.17    20.78     0.00    17.40     0.24     2.41    23.12
FRCCFLTCOLU1531132020110 01                    92.     685.     85.0    15.83
 1.54    11.90    17.37     0.00    32.00     2.94    14.84    21.66
VACA  TCOLU0631041050710 01                    74.     464.     71.6    13.74
 1.54     7.09    15.28     0.00    11.70     0.87     7.95    17.14
VACA  TCOLU0631102050710 01                    55.     410.     85.0    13.73
 1.54     6.25    15.27     0.00    11.70     0.64     6.90    16.84
VACANCTCOLU0631102020110 01                    98.     485.     56.5    15.54
 1.54     8.29    17.08     0.00    32.00     3.14    11.43    23.54
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 8
Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTCOLU0631102020210 01 | 189. | 1057. | 63.9 | 15.17 | 1.54 | 17.67 | 16.71 | 0.00 | 32.00 | 6.05 |
| VACAVATCOLU0331092050710 01 | 57. | 319. | 63.9 | 16.29 | 1.54 | 5.68 | 17.83 | 0.00 | 11.70 | 0.67 |
| ENTG TCOLU1041292050210 01 | 550. | 4095. | 85.0 | 11.66 | 1.54 | 54.07 | 13.20 | 0.00 | 17.40 | 9.57 |
| SPPN TCOLU1731281020310 01 | 37. | 251. | 77.3 | 10.98 | 1.54 | 3.14 | 12.52 | 0.00 | 32.00 | 1.18 |
| SPPN TCOLU1731282020110 01 | 38. | 257. | 77.3 | 10.98 | 1.54 | 3.22 | 12.52 | 0.00 | 32.00 | 1.22 |
| SPPNMOTCOLU0511252050710 01 | 43. | 320. | 85.0 | 11.98 | 1.54 | 4.33 | 13.52 | 0.00 | 32.00 | 1.38 |
| SPPNMOTCOLU0511272050710 01 | 8. | 60. | 85.0 | 11.98 | 1.54 | 0.81 | 13.52 | 0.00 | 32.00 | 0.26 |
| SPPSTXTCOLU3531292050710 01 | 26. | 194. | 85.0 | 11.66 | 1.54 | 2.56 | 13.20 | 0.00 | 17.40 | 0.45 |
| CALI TCOLU0811372050710 01 | 113. | 841. | 85.0 | 10.08 | 1.54 | 9.78 | 11.62 | 0.00 | 12.90 | 1.46 |
| CALI TCOLU0832372050710 01 | 58. | 432. | 85.0 | 11.72 | 1.54 | 5.73 | 13.26 | 0.00 | 21.40 | 1.24 |
| RMPA TCOLU0811351020710 01 | 7. | 52. | 85.0 | 6.32 | 1.54 | 0.41 | 7.86 | 0.00 | 32.00 | 0.22 |
| RMPA TCOLU0811402050110 01 | 30. | 223. | 85.0 | 8.32 | 1.54 | 2.20 | 9.86 | 0.00 | 32.00 | 0.96 |
| RMPA TCOLU0811342050710 01 | 19. | 141. | 85.0 | 8.43 | 1.54 | 1.41 | 9.97 | 0.00 | 32.00 | 0.61 |
| RMPA TCOLU0811352050710 01 | 5. | 37. | 85.0 | 6.32 | 1.54 | 0.29 | 7.86 | 0.00 | 32.00 | 0.16 |
| RMPA TCOLU0831331020310 01 | 45. | 335. | 85.0 | 7.40 | 1.54 | 3.00 | 8.94 | 0.00 | 32.00 | 1.44 |
| NWPE TCOLU0811332050710 01 | 8. | 60. | 85.0 | 7.40 | 1.54 | 0.53 | 8.94 | 0.00 | 32.00 | 0.26 |
| NWPE TCOLU0831332050710 01 | 50. | 372. | 85.0 | 7.40 | 1.54 | 3.33 | 8.94 | 0.00 | 11.70 | 0.58 |
| PNW TABU 0711371030710 01 | 25. | 186. | 85.0 | 11.26 | 1.54 | 2.38 | 12.80 | 0.00 | 32.00 | 0.80 |
| ECAO TOLBU0411181020710 01 | 14. | 104. | 85.0 | 10.28 | 1.54 | 1.23 | 11.82 | 0.00 | 26.40 | 0.37 |
| ECAO TOLBU0411182020710 01 | 12. | 89. | 85.0 | 10.28 | 1.54 | 1.06 | 11.82 | 0.00 | 32.00 | 0.38 |
| ECAO TOLBU0412181020210 01 | 39. | 212. | 62.0 | 17.85 | 1.54 | 4.11 | 19.39 | 0.00 | 32.00 | 1.25 |
| ECAO TOLBU0412181020710 01 | 20. | 149. | 85.0 | 11.93 | 1.54 | 2.01 | 13.47 | 0.00 | 32.00 | 0.64 |
| ECAO TOLBU0611191020710 01 | 10. | 74. | 85.0 | 8.34 | 1.54 | 0.74 | 9.88 | 0.00 | 32.00 | 0.32 |
| ECAO TOLBU0631191040110 01 | 26. | 129. | 56.5 | 9.99 | 1.54 | 1.48 | 11.53 | 0.00 | 26.40 | 0.69 |

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ECAO  TOLBU0632051020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01                  145.     387.     30.5    13.44
 1.54     5.80    14.98     0.00    32.00     4.64    10.44    26.98
ECAO  TOLBU0632192020210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01                  137.     767.     63.9    12.20
 1.54    10.54    13.74     0.00    32.00     4.38    14.92    19.46
ECAOMDTOLBU0231082020110 01                   86.     229.     30.5    14.51
 1.54     3.68    16.05     0.00    32.00     2.75     6.44    28.05
ECAOOHTOLBU0432142020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.30     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01                  243.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     7.78     7.78     0.00
MACW  TOLBU0231032020110 01                  115.     307.     30.5    17.53
 1.54     5.85    19.07     0.00    32.00     3.68     9.52    31.07
MACW  TOLBU0232032050110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01                   14.     104.     85.0    10.04
 1.54     1.21    11.58     0.00    32.00     0.45     1.66    15.88
WUMSWITOLBU1312162020210 01                   24.     179.     85.0    13.01
 1.54     2.60    14.55     0.00    32.00     0.77     3.37    18.85
MANO  TOLBU0432192010210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTOLBU0532281010110 01                   49.     339.     78.9    10.57
 1.54     4.10    12.11     0.00    32.00     1.57     5.67    16.74
MAPP  TOLBU1141252020110 01                  130.     727.     63.9    12.33
 1.54    10.09    13.87     0.00    32.00     4.16    14.25    19.59
MAPPMOTOLBU0512282020110 01                   21.     156.     85.0    10.39
 1.54     1.87    11.93     0.00    32.00     0.67     2.54    16.23
MAPPMOTOLBU0532281010110 01                   97.     608.     71.6    10.76
 1.54     7.48    12.30     0.00    32.00     3.10    10.58    17.40
VACANCTOLBU0632101020210 01                   97.     337.     39.7    16.71
 1.54     6.15    18.25     0.00    32.00     3.10     9.26    27.45
VACANCTOLBU0632102020110 01                   79.     391.     56.5    15.64
 1.54     6.72    17.18     0.00    32.00     2.53     9.25    23.64
VACAVATOLBU0332092020110 01                  100.     414.     47.3    16.61
 1.54     7.52    18.15     0.00    32.00     3.20    10.72    25.87
VACAVATOLBU0332092020210 01                   71.     189.     30.5    17.38
 1.54     3.58    18.92     0.00    32.00     2.27     5.86    30.91
SPPN  TOLBU1732282020110 01                  144.     665.     52.7    12.53
 1.54     9.36    14.07     0.00    32.00     4.61    13.97    21.00
SPPN  TOLBU1742282020110 01                  148.     803.     62.0    11.41
 1.54    10.41    12.95     0.00    32.00     4.74    15.14    18.85
SPPNMOTOLBU0511281020110 01                   84.     625.     85.0     9.81
 1.54     7.10    11.35     0.00    32.00     2.69     9.78    15.64
SPPNMOTOLBU0531281010110 01                   53.     297.     63.9    10.24
 1.54     3.49    11.78     0.00    32.00     1.70     5.19    17.50
SPPNMOTOLBU0531281020110 01                   96.     602.     71.6    10.04
 1.54     6.97    11.58     0.00    32.00     3.07    10.04    16.69
SPPNMOTOLBU0531282020110 01                   51.     352.     78.9    10.04
 1.54     4.08    11.58     0.00    32.00     1.63     5.71    16.21
SPPNMOTOLBU0532281010110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01                  211.    1181.     63.9    10.91
 1.54    14.70    12.45     0.00    26.40     5.57    20.27    17.17
RMPA  TOLSU0812321020110 01                   15.     112.     85.0     8.87
 1.54     1.16    10.41     0.00    26.40     0.40     1.56    13.96
ECAO  TRRBU0432042020110 01                  129.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     4.13     4.13     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 9

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MECS TSABU0441391020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051010110 01 | 410. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 13.12 | 13.12 | 0.00 |
| ECAOOHTSABU0441051020110 01 | 380. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 12.16 | 12.16 | 0.00 |
| ERCTTXTSABU2341292020210 01 | 632. | 4706. | 85.0 | 10.69 | 1.54 | 57.56 | 12.23 | 0.00 | 17.40 | 11.00 | 68.56 | 14.57 |
| MACWPATSABU0241032020110 01 | 472. | 1259. | 30.5 | 17.05 | 1.54 | 23.41 | 18.59 | 0.00 | 32.00 | 15.10 | 38.52 | 30.59 |
| MANO TSABU0441182020110 01 | 555. | 3462. | 71.2 | 12.28 | 1.54 | 47.83 | 13.82 | 0.00 | 17.40 | 9.66 | 57.49 | 16.61 |
| MANOMOTSABU0541252020110 01 | 1158. | 8405. | 82.9 | 11.97 | 1.54 | 113.55 | 13.51 | 0.00 | 21.40 | 24.78 | 138.33 | 16.46 |
| MANOMOTSABU0542252020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282020110 01 | 924. | 6880. | 85.0 | 10.79 | 1.54 | 84.85 | 12.33 | 0.00 | 18.70 | 17.28 | 102.13 | 14.84 |
| MAPP TSABU1141282010210 01 | 135. | 933. | 78.9 | 11.12 | 1.54 | 11.81 | 12.66 | 0.00 | 32.00 | 4.32 | 16.13 | 17.29 |
| MAPP TSABU1142282020110 01 | 371. | 2564. | 78.9 | 11.25 | 1.54 | 32.78 | 12.79 | 0.00 | 26.40 | 9.79 | 42.58 | 16.61 |
| DSNYNYTSABU0141012020110 01 | 541. | 3619. | 76.4 | 18.84 | 1.54 | 73.77 | 20.38 | 0.00 | 20.60 | 11.14 | 84.91 | 23.46 |
| DSNYNYTSABU0142012020110 01 | 197. | 1235. | 71.6 | 20.07 | 1.54 | 26.69 | 21.61 | 0.00 | 26.40 | 5.20 | 31.89 | 25.82 |
| NENGCTTSABU3241012020110 01 | 230. | 428. | 21.2 | 17.84 | 1.54 | 8.29 | 19.38 | 0.00 | 26.40 | 6.08 | 14.37 | 33.58 |
| VACANCTSABU0641102020210 01 | 745. | 5149. | 78.9 | 14.58 | 1.54 | 83.00 | 16.12 | 0.00 | 17.40 | 12.96 | 95.96 | 18.64 |
| TVA TSABU0641202020310 01 | 1206. | 8980. | 85.0 | 12.34 | 1.54 | 124.67 | 13.88 | 0.00 | 32.00 | 38.59 | 163.26 | 18.18 |
| SOU TSABU0641112020110 01 | 1721. | 12246. | 81.2 | 14.35 | 1.54 | 194.55 | 15.89 | 0.00 | 28.80 | 49.56 | 244.12 | 19.93 |
| SOU ALTSABU0641231020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641232020210 01 | 669. | 4982. | 85.0 | 13.40 | 1.54 | 74.43 | 14.94 | 0.00 | 17.40 | 11.64 | 86.07 | 17.28 |
| SOU MSTSABU1641242020110 01 | 536. | 3991. | 85.0 | 15.78 | 1.54 | 69.13 | 17.32 | 0.00 | 21.40 | 11.47 | 80.60 | 20.19 |
| SOU MSTSABU1641242020210 01 | 545. | 4058. | 85.0 | 15.50 | 1.54 | 69.14 | 17.04 | 0.00 | 17.40 | 9.48 | 78.62 | 19.37 |
| RMPA TSABU0841341020310 01 | 106. | 789. | 85.0 | 8.47 | 1.54 | 7.90 | 10.01 | 0.00 | 32.00 | 3.39 | 11.29 | 14.30 |
| RMPA TSABU0841342020310 01 | 208. | 1549. | 85.0 | 8.14 | 1.54 | 15.00 | 9.68 | 0.00 | 17.40 | 3.62 | 18.61 | 12.02 |

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NWPE  TSABU0832332020110 01                    70.     521.     85.0     7.97
 1.54     4.96     9.51     0.00    32.00     2.24     7.20    13.81
NWPE  TSABU0841332020110 01                   105.     782.     85.0     7.47
 1.54     7.04     9.01     0.00    32.00     3.36    10.40    13.31
NWPE  TSABU0841352020310 01                   258.    1921.     85.0     6.11
 1.54    14.69     7.65     0.00    17.40     4.49    19.18     9.98
MECS  TSASU0441392020110 01                  1260.    9382.     85.0    12.42
 1.54   130.97    13.96     0.00    17.40    21.92   152.89    16.30
ERCTTXTSASU1941291020310 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    17.40     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.60     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.40     0.00     0.00     0.00
MANO  TSASU0441202020110 01                   169.     809.     54.6    14.19
 1.54    12.72    15.73     0.00    32.00     5.41    18.13    22.42
MAPPWITSASU1331162020110 01                    87.     648.     85.0    10.01
 1.54     7.48    11.55     0.00    32.00     2.78    10.26    15.84
MAPPWITSASU1332162020110 01                    57.     424.     85.0    10.58
 1.54     5.15    12.12     0.00    32.00     1.82     6.97    16.42
ENTG  TSASU1041292020110 01                  4252.   31570.     84.8    14.42
 1.54   503.78    15.96     0.00    17.40    73.98   577.76    18.30
ENTG  TSASU1042292020110 01                   815.    5520.     77.3    15.18
 1.54    92.28    16.72     0.00    17.40    14.18   106.46    19.29
SPPS  TSASU1041292020210 01                  1003.    7469.     85.0    14.20
 1.54   117.52    15.74     0.00    17.40    17.45   134.98    18.07
SPPS  TSASU3641282020110 01                  3838.   28579.     85.0     9.79
 1.54   323.71    11.33     0.00    18.00    69.08   392.80    13.74
SPPSTXTSASU2341292020210 01                  1056.    7863.     85.0    14.45
 1.54   125.72    15.99     0.00    19.40    20.49   146.21    18.59
SPPSTXTSASU2342292020210 01                   528.    3932.     85.0    15.05
 1.54    65.23    16.59     0.00    17.40     9.19    74.41    18.93
SPPSTXTSASU3541292020110 01                   346.    2576.     85.0    14.02
 1.54    40.09    15.56     0.00    21.40     7.40    47.50    18.44
SPPSTXTSASU3541292020310 01                  1800.   13403.     85.0    13.84
 1.54   206.14    15.38     0.00    17.40    31.32   237.46    17.72
PNW ORTSASU0842372020110 01                   508.    3783.     85.0    10.91
 1.54    47.10    12.45     0.00    17.40     8.84    55.93    14.79
RMPA  TSASU0832342020310 01                    49.     339.     78.9    10.19
 1.54     3.97    11.73     0.00    32.00     1.57     5.54    16.36
RMPA  TSASU0841342020310 01                  1155.    8600.     85.0     9.64
 1.54    96.17    11.18     0.00    19.70    22.75   118.92    13.83
NWPE  TSASU0742322020110 01                   156.    1162.     85.0     7.03
 1.54     9.95     8.57     0.00    26.40     4.12    14.07    12.11
NWPE  TSASU0841322020110 01                   106.     789.     85.0     6.76
 1.54     6.55     8.30     0.00    32.00     3.39     9.95    12.60
NWPE  TSASU0842322020110 01                   336.    2502.     85.0     6.87
 1.54    21.04     8.41     0.00    32.00    10.75    31.79    12.71
MECS  TSBBU0441392020110 01                   500.    3723.     85.0    10.81
 1.54    45.97    12.35     0.00    32.00    16.00    61.97    16.64
ECAO  TSBBU0241041020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01                   562.    3144.     63.9    12.71
 1.54    44.82    14.25     0.00    26.40    14.84    59.66    18.97
ECAO  TSBBU0632061020110 01                   141.     262.     21.2    15.16
 1.54     4.38    16.70     0.00    32.00     4.51     8.89    33.91
ECAO  TSBBU0632062020110 01                    72.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     2.30     2.30     0.00
ECAO  TSBBU0641062020110 01                   116.     649.     63.9    11.85
 1.54     8.69    13.39     0.00    32.00     3.71    12.40    19.11
ECAOINTSBBU0441182020110 01                   378.    2115.     63.9     8.39
 1.54    20.99     9.93     0.00    26.40     9.98    30.97    14.64
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3. 10
Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSBBU0431042020110 01 | 188. | 1052. | 63.9 | 12.18 | 1.54 | 14.43 | 13.72 | 0.00 | 32.00 | 6.02 | 20.44 | 19.43 |
| ECAOOHTSBBU0441041020110 01 | 134. | 664. | 56.5 | 12.19 | 1.54 | 9.11 | 13.73 | 0.00 | 32.00 | 4.29 | 13.40 | 20.19 |
| ECAOOHTSBBU0441042020110 01 | 633. | 4375. | 78.9 | 11.43 | 1.54 | 56.73 | 12.97 | 0.00 | 30.10 | 19.05 | 75.78 | 17.32 |
| MANOILTSBBU0441181010110 01 | 599. | 2648. | 50.4 | 12.94 | 1.54 | 38.35 | 14.48 | 0.00 | 28.50 | 17.08 | 55.43 | 20.93 |
| MAPP TSBBU1112271020710 01 | 23. | 171. | 85.0 | 11.96 | 1.54 | 2.31 | 13.50 | 0.00 | 32.00 | 0.74 | 3.05 | 17.80 |
| MAPP TSBBU1112272040210 01 | 36. | 201. | 63.9 | 14.97 | 1.54 | 3.33 | 16.51 | 0.00 | 32.00 | 1.15 | 4.48 | 22.23 |
| MAPP TSBBU1131262020110 01 | 29. | 200. | 78.9 | 11.16 | 1.54 | 2.54 | 12.70 | 0.00 | 26.40 | 0.77 | 3.31 | 16.52 |
| MAPP TSBBU1131262020210 01 | 60. | 374. | 71.2 | 11.77 | 1.54 | 4.98 | 13.31 | 0.00 | 26.40 | 1.58 | 6.56 | 17.54 |
| MAPP TSBBU1132271040110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBBU1432282020210 01 | 85. | 587. | 78.9 | 11.85 | 1.54 | 7.86 | 13.39 | 0.00 | 21.40 | 1.82 | 9.68 | 16.48 |
| MAPPNETSBBU1441282010310 01 | 120. | 894. | 85.0 | 11.02 | 1.54 | 11.22 | 12.56 | 0.00 | 32.00 | 3.84 | 15.06 | 16.85 |
| MAPPNETSBBU1442282010310 01 | 105. | 726. | 78.9 | 11.86 | 1.54 | 9.73 | 13.40 | 0.00 | 26.40 | 2.77 | 12.50 | 17.22 |
| VACANCTSBBU0631102020110 01 | 78. | 436. | 63.9 | 15.12 | 1.54 | 7.27 | 16.66 | 0.00 | 32.00 | 2.50 | 9.76 | 22.38 |
| VACANCTSBBU0641102020110 01 | 1880. | 12993. | 78.9 | 13.42 | 1.54 | 194.43 | 14.96 | 0.00 | 27.20 | 51.14 | 245.57 | 18.90 |
| VACANCTSBBU0641102020210 01 | 106. | 593. | 63.9 | 15.79 | 1.54 | 10.28 | 17.33 | 0.00 | 32.00 | 3.39 | 13.67 | 23.05 |
| TVA TSBBU0641212020110 01 | 976. | 7268. | 85.0 | 12.63 | 1.54 | 102.97 | 14.17 | 0.00 | 32.00 | 31.23 | 134.20 | 18.47 |
| SOU TSBBU0632112020110 01 | 107. | 372. | 39.7 | 17.34 | 1.54 | 7.02 | 18.88 | 0.00 | 32.00 | 3.42 | 10.45 | 28.09 |
| SOU TSBBU0641112020110 01 | 282. | 1397. | 56.5 | 15.58 | 1.54 | 23.90 | 17.12 | 0.00 | 26.20 | 7.39 | 31.29 | 22.41 |
| SOU TSBBU0641242020110 01 | 1103. | 8213. | 85.0 | 14.75 | 1.54 | 133.80 | 16.29 | 0.00 | 26.40 | 29.12 | 162.92 | 19.84 |
| SOU TSBBU0641242020210 01 | 534. | 3976. | 85.0 | 15.29 | 1.54 | 66.93 | 16.83 | 0.00 | 32.00 | 17.09 | 84.02 | 21.13 |
| SOU MSTSBBU1641241020110 01 | 512. | 3812. | 85.0 | 15.42 | 1.54 | 64.66 | 16.96 | 0.00 | 26.40 | 13.52 | 78.18 | 20.51 |
| SOU MSTSBBU1641242020110 01 | 262. | 1951. | 85.0 | 15.49 | 1.54 | 33.22 | 17.03 | 0.00 | 26.40 | 6.92 | 40.14 | 20.57 |
| AZNM TSBBU0841361020310 01 | 156. | 1162. | 85.0 | 8.63 | 1.54 | 11.81 | 10.17 | 0.00 | 32.00 | 4.99 | 16.80 | 14.47 |
| AZNM TSBBU0841362020210 01 | 260. | 1936. | 85.0 | 8.78 | 1.54 | 19.98 | 10.32 | 0.00 | 17.40 | 4.52 | 24.51 | 12.66 |

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RMPA  TSBBU0812341020710 01                    48.     357.     85.0    10.18
 1.54     4.19    11.72     0.00    32.00     1.54     5.73    16.02
NWPE  TSBBU0841332020110 01                   425.    3165.     85.0     6.90
 1.54    26.71     8.44     0.00    26.40    11.22    37.93    11.99
ERCTTXTSBLU2241302020110 02                   575.    2287.     45.4    13.42
 1.54    34.23    14.96     0.00    26.40    15.18    49.41    21.60
ERCTTXTSBLU2241302020410 02                  1140.    3807.     38.1    13.47
 1.54    57.12    15.01     0.00    26.40    30.10    87.22    22.91
ERCTTXTSBLU2242302020410 02                   565.    1197.     24.2    14.03
 1.54    18.64    15.57     0.00    26.40    14.92    33.55    28.03
MAPPSDTSBLU0742261010110 02                   452.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40    11.93    11.93     0.00
MECS  TSBSU0441392020110 01                  1894.   13090.     78.9    12.18
 1.54   179.65    13.72     0.00    29.20    55.30   234.96    17.95
ERCTTXTSBSU2341292020110 01                  1160.    8638.     85.0    13.78
 1.54   132.29    15.32     0.00    17.40    20.18   152.48    17.65
MANO  TSBSU0432172010110 01                   100.     479.     54.6    13.86
 1.54     7.37    15.40     0.00    32.00     3.20    10.57    22.08
MANO  TSBSU0441172020110 01                  2672.   18467.     78.9    11.65
 1.54   243.53    13.19     0.00    32.00    85.50   329.03    17.82
MANO  TSBSU0441172020210 01                   579.    4002.     78.9    11.59
 1.54    52.54    13.13     0.00    32.00    18.53    71.07    17.76
MAPPNETSBSU1432282020110 01                    76.     474.     71.2    11.34
 1.54     6.10    12.88     0.00    32.00     2.43     8.54    18.01
MAPPNETSBSU1432282020210 01                   172.    1281.     85.0    10.74
 1.54    15.73    12.28     0.00    17.40     2.99    18.73    14.62
MAPPNETSBSU1441282020110 01                   585.    4356.     85.0     9.99
 1.54    50.22    11.53     0.00    17.40    10.18    60.40    13.87
MAPPNETSBSU1441282020210 01                   700.    5212.     85.0     9.16
 1.54    55.79    10.70     0.00    17.40    12.18    67.97    13.04
MAPPNETSBSU1442282020110 01                   569.    4237.     85.0    10.65
 1.54    51.67    12.19     0.00    29.90    17.01    68.68    16.21
MAPPNETSBSU1442282020510 01                   665.    4952.     85.0    10.43
 1.54    59.27    11.97     0.00    17.40    11.57    70.84    14.31
SPPNMOTSBSU0542282020110 01                   161.    1199.     85.0    10.32
 1.54    14.22    11.86     0.00    32.00     5.15    19.38    16.16
ECAOINTSCBU0431181020110 01                   255.     680.     30.5    11.82
 1.54     9.09    13.36     0.00    32.00     8.16    17.25    25.36
ECAOINTSCBU0432181020110 01                    95.     253.     30.5    12.19
 1.54     3.48    13.73     0.00    32.00     3.04     6.52    25.73
ECAOINTSCBU0441182020110 01                  1292.    7229.     63.9    13.14
 1.54   106.11    14.68     0.00    26.40    34.11   140.22    19.40
ECAOOHTSCBU0441041020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    17.40     0.00     0.00     0.00
MACE  TSCBU0131032020310 01                    80.     448.     63.9    17.38
 1.54     8.47    18.92     0.00    32.00     2.56    11.03    24.64
MACEDETSCBU0231032020110 01                   178.     996.     63.9    16.83
 1.54    18.30    18.37     0.00    32.00     5.70    23.99    24.09
MACW  TSCBU0241032020110 01                  1356.    7587.     63.9    15.70
 1.54   130.78    17.24     0.00    29.00    39.32   170.10    22.42
MACW  TSCBU0241032020310 01                   321.    1701.     60.5    15.75
 1.54    29.41    17.29     0.00    32.00    10.27    39.68    23.33
MACW  TSCBU0242032020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MAPP  TSCBU1131272010110 01                    80.     499.     71.2    11.77
 1.54     6.64    13.31     0.00    32.00     2.56     9.20    18.44
MAPP  TSCBU1131252020110 01                    34.     190.     63.9    12.21
 1.54     2.62    13.75     0.00    32.00     1.09     3.70    19.47
MAPP  TSCBU1132252020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01                   362.    1502.     47.4    13.71
 1.54    22.91    15.25     0.00    32.00    11.58    34.49    22.96
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Total Annual Costs

Year: 2005

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UPNY | TSCBU0141022020210 01 | 387. | 2882. | 85.0 | 13.71 | 1.54 | 43.94 | 15.25 | 0.00 | 32.00 | 12.38 | 56.32 | 19.54 |
| VACA | TSCBU0631102020110 01 | 170. | 951. | 63.9 | 15.51 | 1.54 | 16.22 | 17.05 | 0.00 | 32.00 | 5.44 | 21.66 | 22.77 |
| VACA | TSCBU0641102020110 01 | 306. | 1918. | 71.6 | 14.22 | 1.54 | 30.22 | 15.76 | 0.00 | 26.40 | 8.08 | 38.30 | 19.97 |
| TVA | TSCBU0641212020210 01 | 704. | 5242. | 85.0 | 12.59 | 1.54 | 74.07 | 14.13 | 0.00 | 32.00 | 22.53 | 96.60 | 18.43 |
| SOU | TSCBU0641232020210 01 | 1904. | 14178. | 85.0 | 12.65 | 1.54 | 201.18 | 14.19 | 0.00 | 29.40 | 55.98 | 257.16 | 18.14 |
| SPPN | TSCBU1731282010310 01 | 55. | 410. | 85.0 | 10.79 | 1.54 | 5.05 | 12.33 | 0.00 | 32.00 | 1.76 | 6.81 | 16.62 |
| SPPN | TSCBU1732281010110 01 | 73. | 494. | 77.3 | 10.48 | 1.54 | 5.94 | 12.02 | 0.00 | 32.00 | 2.34 | 8.28 | 16.75 |
| SPPN | TSCBU1732282020110 01 | 54. | 250. | 52.7 | 12.07 | 1.54 | 3.40 | 13.61 | 0.00 | 32.00 | 1.73 | 5.12 | 20.54 |
| RMPA | TSCBU0832342020310 01 | 126. | 938. | 85.0 | 9.30 | 1.54 | 10.17 | 10.84 | 0.00 | 28.50 | 3.59 | 13.77 | 14.67 |
| RMPA | TSCBU0841342020310 01 | 133. | 990. | 85.0 | 8.50 | 1.54 | 9.94 | 10.04 | 0.00 | 26.40 | 3.51 | 13.45 | 13.58 |
| WUMSWI | TSCSU1242162020110 01 | 1200. | 8936. | 85.0 | 10.43 | 1.54 | 107.00 | 11.97 | 0.00 | 17.40 | 20.88 | 127.88 | 14.31 |
| WUMSWI | TSCSU1341161010110 01 | 342. | 2547. | 85.0 | 9.29 | 1.54 | 27.58 | 10.83 | 0.00 | 26.40 | 9.03 | 36.61 | 14.37 |
| WUMSWI | TSCSU1341162020110 01 | 525. | 3909. | 85.0 | 9.88 | 1.54 | 44.65 | 11.42 | 0.00 | 17.40 | 9.13 | 53.78 | 13.76 |
| WUMSWI | TSCSU1341162020210 01 | 525. | 3909. | 85.0 | 9.93 | 1.54 | 44.83 | 11.47 | 0.00 | 26.40 | 13.86 | 58.69 | 15.01 |
| WUMSWI | TSCSU1341162020510 01 | 334. | 2487. | 85.0 | 9.83 | 1.54 | 28.29 | 11.37 | 0.00 | 17.40 | 5.81 | 34.10 | 13.71 |
| WUMSWI | TSCSU1342162020110 01 | 402. | 2993. | 85.0 | 10.26 | 1.54 | 35.31 | 11.80 | 0.00 | 17.40 | 6.99 | 42.30 | 14.13 |
| MANO | TSCSU0441182010110 01 | 999. | 5590. | 63.9 | 13.51 | 1.54 | 84.12 | 15.05 | 0.00 | 28.10 | 28.07 | 112.19 | 20.07 |
| MANO | TSCSU0441202020110 01 | 676. | 3236. | 54.6 | 13.88 | 1.54 | 49.88 | 15.42 | 0.00 | 32.00 | 21.63 | 71.51 | 22.10 |
| MANO | TSCSU0442182010110 01 | 700. | 2901. | 47.3 | 14.47 | 1.54 | 46.43 | 16.01 | 0.00 | 26.40 | 18.48 | 64.91 | 22.38 |
| MANO | TSCSU0442202020110 01 | 169. | 809. | 54.6 | 14.42 | 1.54 | 12.91 | 15.96 | 0.00 | 32.00 | 5.41 | 18.31 | 22.64 |
| MAPP | TSCSU1141251020210 01 | 714. | 4454. | 71.2 | 12.27 | 1.54 | 61.49 | 13.81 | 0.00 | 17.40 | 12.42 | 73.91 | 16.60 |
| MAPP | TSCSU1141252020110 01 | 637. | 4036. | 72.3 | 12.33 | 1.54 | 55.98 | 13.87 | 0.00 | 17.40 | 11.08 | 67.07 | 16.62 |
| MAPP | TSCSU1141252020210 01 | 644. | 4017. | 71.2 | 12.27 | 1.54 | 55.47 | 13.81 | 0.00 | 17.40 | 11.21 | 66.68 | 16.60 |
| MAPP | TSCSU1142252020210 01 | 260. | 1455. | 63.9 | 13.66 | 1.54 | 22.11 | 15.20 | 0.00 | 21.40 | 5.56 | 27.67 | 19.02 |

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MAPPWITSCSU1342162020210 01                    377.    2807.     85.0    10.71
 1.54    34.40    12.25     0.00    17.40     6.56    40.96    14.59
MECS  TSDBU0441392020110 01                    609.    4209.     78.9    11.11
 1.54    53.24    12.65     0.00    32.00    19.49    72.73    17.28
ECAO  TSDBU0641062020110 01                    260.    1797.     78.9    11.22
 1.54    22.92    12.76     0.00    32.00     8.32    31.24    17.39
ECAOVATSDBU0341061020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01                    781.    4896.     71.6    11.11
 1.54    61.92    12.65     0.00    32.00    24.99    86.91    17.75
MACSMDTSDBU0241081020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.50     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01                   1135.    8452.     85.0    10.90
 1.54   105.12    12.44     0.00    32.00    36.32   141.44    16.74
MANOILTSDBU0441191020110 01                    361.    1788.     56.5     9.27
 1.54    19.32    10.81     0.00    26.40     9.53    28.85    16.14
MANOILTSDBU0441192020110 01                    262.    1466.     63.9     9.58
 1.54    16.30    11.12     0.00    26.40     6.92    23.22    15.84
MANOMOTSDBU0541252020110 01                   2300.   14346.     71.2    12.09
 1.54   195.60    13.63     0.00    26.40    60.72   256.32    17.87
FRCCFLTSDBU1541131020110 01                   1394.   10380.     85.0    14.22
 1.54   163.60    15.76     0.00    17.40    24.26   187.85    18.10
FRCCFLTSDBU1541132020110 01                    833.    6203.     85.0    14.50
 1.54    99.47    16.04     0.00    28.90    24.07   123.54    19.92
FRCCFLTSDBU1541132020210 01                    218.    1623.     85.0    15.52
 1.54    27.70    17.06     0.00    17.40     3.79    31.49    19.40
VACANCTSDBU0641102020110 01                   2090.   15563.     85.0    12.86
 1.54   224.15    14.40     0.00    28.50    59.56   283.71    18.23
TVA   TSDBU0641222020110 01                    564.    3536.     71.6    14.61
 1.54    57.09    16.15     0.00    32.00    18.05    75.14    21.25
TVA   TSDBU0642222020210 01                    642.    3180.     56.5    15.93
 1.54    55.56    17.47     0.00    32.00    20.54    76.10    23.93
WUMSWITSDSU1331392020110 01                     87.     472.     62.0    13.09
 1.54     6.91    14.63     0.00    32.00     2.78     9.69    20.53
WUMSWITSDSU1332392020110 01                    183.     993.     62.0    15.10
 1.54    16.53    16.64     0.00    32.00     5.86    22.38    22.53
WUMSWITSDSU1341392010210 01                    113.     705.     71.2    13.12
 1.54    10.34    14.66     0.00    32.00     3.62    13.95    19.79
WUMSWITSDSU1342392010210 01                    113.     705.     71.2    13.55
 1.54    10.64    15.09     0.00    32.00     3.62    14.26    20.22
MAPP  TSDSU1132252020110 01                     30.     168.     63.9    13.68
 1.54     2.56    15.22     0.00    26.40     0.79     3.35    19.94
MAPP  TSDSU1132252020210 01                     88.     492.     63.9    13.04
 1.54     7.18    14.58     0.00    32.00     2.82     9.99    20.30
MECS  TSEBU0441392020110 01                    320.    2212.     78.9    11.63
 1.54    29.14    13.17     0.00    32.00    10.24    39.38    17.80
ECAOOHTSEBU0441142020110 01                    652.    2702.     47.3    11.79
 1.54    36.03    13.33     0.00    32.00    20.86    56.89    21.06
ECAOOHTSEBU0442142020110 01                    156.     290.     21.2    12.73
 1.54     4.14    14.27     0.00    32.00     4.99     9.13    31.48
MACWPATSEBU0232032020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01                    135.     646.     54.6    16.91
 1.54    11.92    18.45     0.00    32.00     4.32    16.24    25.13
MANO  TSEBU0442181010110 01                    554.    1478.     30.5    13.96
 1.54    22.91    15.50     0.00    32.00    17.73    40.64    27.50
MAPP  TSEBU1141252020110 01                    211.    1181.     63.9    12.17
 1.54    16.19    13.71     0.00    26.40     5.57    21.76    18.43
NENG  TSEBU2841012020110 01                    372.    2770.     85.0    15.92
 1.54    48.36    17.46     0.00    29.30    10.90    59.26    21.39
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACASCTSEBU0641102020110 01 | 250. | 1559. | 71.2 | 14.78 | 1.54 | 25.45 | 16.32 | 0.00 | 32.00 | 8.00 | 33.45 | 21.45 |
| VACASCTSEBU0641102020310 01 | 432. | 2986. | 78.9 | 13.81 | 1.54 | 45.82 | 15.35 | 0.00 | 32.00 | 13.82 | 59.64 | 19.98 |
| SOU ALTSEBU0632232020110 01 | 135. | 635. | 53.7 | 15.71 | 1.54 | 10.94 | 17.25 | 0.00 | 32.00 | 4.32 | 15.26 | 24.05 |
| SOU ALTSEBU0641232020210 01 | 857. | 6381. | 85.0 | 12.63 | 1.54 | 90.39 | 14.17 | 0.00 | 32.00 | 27.42 | 117.82 | 18.46 |
| SOU ALTSEBU0642232020110 01 | 224. | 1109. | 56.5 | 15.17 | 1.54 | 18.54 | 16.71 | 0.00 | 32.00 | 7.17 | 25.71 | 23.17 |
| MAPPNDTSELU0742312010110 02 | 690. | 1019. | 16.9 | 9.29 | 1.54 | 11.04 | 10.83 | 0.00 | 26.40 | 18.22 | 29.25 | 28.72 |
| MAPPNDTSELU0742312020110 02 | 378. | 844. | 25.5 | 9.01 | 1.54 | 8.90 | 10.55 | 0.00 | 32.00 | 12.10 | 20.99 | 24.88 |
| ECAO TSESU0441171010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 | 957. | 7126. | 85.0 | 12.00 | 1.54 | 96.49 | 13.54 | 0.00 | 26.70 | 25.55 | 122.04 | 17.13 |
| MANO TSESU0441172010110 01 | 303. | 2094. | 78.9 | 11.24 | 1.54 | 26.75 | 12.78 | 0.00 | 32.00 | 9.70 | 36.45 | 17.41 |
| MANO TSESU0441172020310 01 | 187. | 1392. | 85.0 | 11.37 | 1.54 | 17.97 | 12.91 | 0.00 | 32.00 | 5.98 | 23.96 | 17.21 |
| MAPP TSESU1141261010110 01 | 567. | 4222. | 85.0 | 10.92 | 1.54 | 52.59 | 12.46 | 0.00 | 26.40 | 14.97 | 67.56 | 16.00 |
| SOU TSESU0641111020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 0.00 | 0.00 | 0.00 |
| SOU TSESU0641112020110 01 | 1687. | 11425. | 77.3 | 16.15 | 1.54 | 202.08 | 17.69 | 0.00 | 14.60 | 24.63 | 226.71 | 19.84 |
| SOU TSESU0641112020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 0.00 | 0.00 | 0.00 |
| SPPN TSESU1741282020110 01 | 235. | 1750. | 85.0 | 10.01 | 1.54 | 20.22 | 11.55 | 0.00 | 17.40 | 4.09 | 24.31 | 13.89 |
| ECAO TSFBU0431142020210 01 | 252. | 469. | 21.2 | 16.00 | 1.54 | 8.22 | 17.54 | 0.00 | 32.00 | 8.06 | 16.28 | 34.75 |
| ECAO TSFBU0432142020110 01 | 95. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 3.04 | 3.04 | 0.00 |
| ECAO TSFBU0432142020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSFBU0441142020110 01 | 596. | 3335. | 63.9 | 11.67 | 1.54 | 44.04 | 13.21 | 0.00 | 26.40 | 15.73 | 59.78 | 17.93 |
| ECAOINTSFBU0441201010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAOKYTSFBU0641201020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 0.00 | 0.00 | 0.00 |
| ECAOKYTSFBU0641202020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| ECAOWVTSFBU0641041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |

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ECAOWVTSFBU0641042020110 01                    552.    3815.     78.9    10.85
 1.54    47.25    12.39     0.00    32.00    17.66    64.92    17.02
MANOMOTSFBU0542251010110 01                    952.    4522.     54.2    12.70
 1.54    64.38    14.24     0.00    29.20    27.80    92.18    20.39
UPNY  TSFBU0131022020210 01                    266.    1981.     85.0    13.42
 1.54    29.64    14.96     0.00    32.00     8.51    38.15    19.26
NENG  TSFBU2832012020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01                   1674.   10798.     73.6    15.70
 1.54   186.14    17.24     0.00    29.70    49.72   235.85    21.84
SOU   TSFBU0642112020110 01                    320.    1112.     39.7    17.73
 1.54    21.43    19.27     0.00    32.00    10.24    31.67    28.47
SPPN  TSFBU1742282020110 01                    135.     848.     71.7    10.77
 1.54    10.44    12.31     0.00    26.40     3.56    14.01    16.51
ECAO  TSFSU0441202020110 01                   2600.   17969.     78.9    13.26
 1.54   266.00    14.80     0.00    14.60    37.96   303.96    16.92
MECSMITSGBU0431392020110 01                    190.    1191.     71.6    11.88
 1.54    15.98    13.42     0.00    32.00     6.08    22.06    18.52
MECSMITSGBU0432391050210 01                     27.      72.     30.5    14.78
 1.54     1.18    16.32     0.00    26.40     0.71     1.89    26.22
MECSMITSGBU0441392020110 01                    945.    6531.     78.9    11.36
 1.54    84.23    12.90     0.00    32.00    30.24   114.47    17.53
ECAOOHTSGBU0441141010110 01                    230.     614.     30.5    13.29
 1.54     9.10    14.83     0.00    32.00     7.36    16.46    26.82
ECAOOHTSGBU0441142020110 01                    945.    4523.     54.6    11.79
 1.54    60.28    13.33     0.00    27.40    25.89    86.18    19.05
MACS  TSGBU0241082020110 01                    546.    3406.     71.2    12.77
 1.54    48.74    14.31     0.00    32.00    17.47    66.21    19.44
WUMSWITSGBU1231392020110 01                    166.    1035.     71.2    12.21
 1.54    14.23    13.75     0.00    32.00     5.31    19.55    18.88
WUMSWITSGBU1232392020310 01                    280.    1520.     62.0    13.83
 1.54    23.37    15.37     0.00    26.40     7.39    30.76    20.24
MANOILTSGBU0431192020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOILTSGBU0432192020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTSGBU0511271040310 01                     14.     104.     85.0    11.88
 1.54     1.40    13.42     0.00    32.00     0.45     1.85    17.71
MANOMOTSGBU0511272020710 01                      2.      15.     85.0    11.85
 1.54     0.20    13.39     0.00    32.00     0.06     0.26    17.69
MANOMOTSGBU0531272040310 01                     57.     394.     78.9    11.88
 1.54     5.29    13.42     0.00    32.00     1.82     7.11    18.05
MAPP  TSGBU1132271010110 01                     76.     425.     63.9    12.76
 1.54     6.08    14.30     0.00    26.40     2.01     8.09    19.02
MAPP  TSGBU1132272020110 01                     39.     218.     63.9    13.14
 1.54     3.20    14.68     0.00    32.00     1.25     4.45    20.40
MAPP  TSGBU1132272020210 01                     78.     436.     63.9    13.19
 1.54     6.43    14.73     0.00    29.40     2.29     8.72    19.98
MAPP  TSGBU1141272020210 01                    142.     795.     63.9    11.98
 1.54    10.74    13.52     0.00    32.00     4.54    15.28    19.24
UPNY  TSGBU0141022020210 01                    412.    2595.     71.9    13.71
 1.54    39.56    15.25     0.00    32.00    13.18    52.75    20.33
VACANCTSGBU0641101020110 01                    165.     574.     39.7    15.43
 1.54     9.73    16.97     0.00    32.00     5.28    15.01    26.17
VACANCTSGBU0641101020210 01                    265.    1661.     71.6    15.02
 1.54    27.51    16.56     0.00    32.00     8.48    35.99    21.66
VACANCTSGBU0641102020110 01                    275.    1901.     78.9    14.19
 1.54    29.89    15.73     0.00    32.00     8.80    38.69    20.36
VACANCTSGBU0641102020210 01                    526.    2943.     63.9    15.33
 1.54    49.64    16.87     0.00    32.00    16.83    66.48    22.59
VACANCTSGBU0642101020110 01                    165.     817.     56.5    15.97
 1.54    14.31    17.51     0.00    32.00     5.28    19.59    23.98
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSGBU0642102020110 01 | 142. | 795. | 63.9 | 16.37 | 1.54 | 14.23 | 17.91 | 0.00 | 32.00 | 4.54 | 18.78 | 23.63 |
| TVA TSGBU0641222020110 01 | 222. | 1392. | 71.6 | 14.76 | 1.54 | 22.68 | 16.30 | 0.00 | 32.00 | 7.10 | 29.79 | 21.40 |
| TVA TSGBU0642222020110 01 | 444. | 2783. | 71.6 | 15.17 | 1.54 | 46.51 | 16.71 | 0.00 | 32.00 | 14.21 | 60.72 | 21.82 |
| SPPNMOTSGBU0511271020710 01 | 6. | 45. | 85.0 | 10.28 | 1.54 | 0.53 | 11.82 | 0.00 | 32.00 | 0.19 | 0.72 | 16.12 |
| ECAO TSGSU0441201020210 01 | 195. | 678. | 39.7 | 12.89 | 1.54 | 9.78 | 14.43 | 0.00 | 32.00 | 6.24 | 16.02 | 23.64 |
| ECAO TSHBU0441041020110 01 | 585. | 3667. | 71.6 | 11.43 | 1.54 | 47.55 | 12.97 | 0.00 | 26.40 | 15.44 | 62.99 | 17.18 |
| ECAO TSHBU0441042020110 01 | 2300. | 13185. | 65.4 | 11.54 | 1.54 | 172.52 | 13.08 | 0.00 | 27.80 | 63.94 | 236.46 | 17.93 |
| ECAO TSHBU0441182020110 01 | 634. | 3136. | 56.5 | 13.62 | 1.54 | 47.55 | 15.16 | 0.00 | 28.30 | 17.94 | 65.49 | 20.88 |
| ECAO TSHBU0441042020310 01 | 540. | 3021. | 63.9 | 12.74 | 1.54 | 43.14 | 14.28 | 0.00 | 32.00 | 17.28 | 60.42 | 20.00 |
| ECAO TSHBU0641041020110 01 | 680. | 3826. | 64.2 | 12.30 | 1.54 | 52.94 | 13.84 | 0.00 | 32.00 | 21.76 | 74.70 | 19.52 |
| ECAO TSHBU0641042020110 01 | 440. | 3041. | 78.9 | 11.63 | 1.54 | 40.04 | 13.17 | 0.00 | 32.00 | 14.08 | 54.12 | 17.80 |
| ECAO TSHBU0641182020110 01 | 1003. | 5612. | 63.9 | 13.47 | 1.54 | 84.21 | 15.01 | 0.00 | 27.40 | 27.48 | 111.70 | 19.90 |
| ECAO TSHBU0642181020110 01 | 105. | 280. | 30.5 | 12.58 | 1.54 | 3.95 | 14.12 | 0.00 | 32.00 | 3.36 | 7.31 | 26.11 |
| ECAO TSHBU0642182020210 01 | 108. | 288. | 30.5 | 14.69 | 1.54 | 4.67 | 16.23 | 0.00 | 32.00 | 3.46 | 8.13 | 28.22 |
| MACW TSHBU0241412020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.20 | 0.00 | 0.00 | 0.00 |
| WUMSWITSHBU1332162010110 01 | 235. | 1592. | 77.3 | 11.45 | 1.54 | 20.68 | 12.99 | 0.00 | 32.00 | 7.52 | 28.20 | 17.72 |
| WUMSWITSHBU1332162020110 01 | 98. | 645. | 75.2 | 11.69 | 1.54 | 8.54 | 13.23 | 0.00 | 32.00 | 3.14 | 11.68 | 18.09 |
| MANOILTSHBU0441192020110 01 | 430. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 13.76 | 13.76 | 0.00 |
| VACA TSHBU0631102020110 01 | 250. | 1399. | 63.9 | 14.43 | 1.54 | 22.33 | 15.97 | 0.00 | 32.00 | 8.00 | 30.33 | 21.69 |
| VACA TSHBU0641102020110 01 | 174. | 1203. | 78.9 | 14.06 | 1.54 | 18.75 | 15.60 | 0.00 | 32.00 | 5.57 | 24.32 | 20.23 |
| VACA TSHBU0641102020210 01 | 170. | 1066. | 71.6 | 15.26 | 1.54 | 17.90 | 16.80 | 0.00 | 32.00 | 5.44 | 23.34 | 21.90 |
| SOU TSHBU0632222020210 01 | 80. | 396. | 56.5 | 15.84 | 1.54 | 6.89 | 17.38 | 0.00 | 26.40 | 2.11 | 9.00 | 22.71 |
| WUMS TSHSU0432392020210 01 | 258. | 1069. | 47.3 | 14.51 | 1.54 | 17.16 | 16.05 | 0.00 | 17.40 | 4.49 | 21.65 | 20.25 |
| MECS TSIBU0432392020110 01 | 53. | 297. | 63.9 | 12.97 | 1.54 | 4.30 | 14.51 | 0.00 | 32.00 | 1.70 | 6.00 | 20.23 |

MECS TSIBU0441392020110 01 103. 646. 71.6 12.15
1.54 8.84 13.69 0.00 26.40 2.72 11.56 17.90
MECS TSIBU0442392020110 01 236. 1130. 54.6 13.77
1.54 17.29 15.31 0.00 32.00 7.55 24.85 22.00
ECAO TSISU0441171010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
MAPP TSISU1132262020110 01 242. 1354. 63.9 13.04
1.54 19.74 14.58 0.00 32.00 7.74 27.48 20.30
MAPP TSISU1132262020310 01 138. 772. 63.9 12.40
1.54 10.77 13.94 0.00 32.00 4.42 15.18 19.66
MAPP TSISU1142262020110 01 454. 3138. 78.9 12.37
1.54 43.66 13.91 0.00 32.00 14.53 58.19 18.55
MAPPWITSISU1341392020110 01 377. 2606. 78.9 11.46
1.54 33.86 13.00 0.00 26.40 9.95 43.81 16.82
ENTGMOTSISU0541271010110 01 450. 3351. 85.0 11.85
1.54 44.86 13.39 0.00 28.60 12.87 57.73 17.23
ECAO TSJBU0441051020110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 560. 3133. 63.9 12.55
1.54 44.14 14.09 0.00 32.00 17.92 62.06 19.81
WUMS TSJBU0431392020110 01 177. 990. 63.9 12.50
1.54 13.91 14.04 0.00 26.40 4.67 18.58 18.76
WUMS TSJBU0431392020310 01 37. 207. 63.9 12.30
1.54 2.87 13.84 0.00 32.00 1.18 4.05 19.56
WUMS TSJBU0432392020310 01 116. 649. 63.9 12.59
1.54 9.17 14.13 0.00 32.00 3.71 12.89 19.85
MANO TSJBU0432252020210 01 96. 537. 63.9 12.59
1.54 7.59 14.13 0.00 32.00 3.07 10.66 19.85
MANO TSJBU0441252020110 01 372. 2518. 77.3 11.72
1.54 33.39 13.26 0.00 32.00 11.90 45.29 17.99
MANO TSJBU0441252020210 01 428. 2395. 63.9 12.47
1.54 33.55 14.01 0.00 17.40 7.45 41.00 17.12
SPPNMOTSJBU0541281010110 01 390. 2695. 78.9 9.37
1.54 29.40 10.91 0.00 26.40 10.30 39.69 14.73
MECS TSKBU0412391020710 01 21. 156. 85.0 14.78
1.54 2.55 16.32 0.00 32.00 0.67 3.22 20.62
MECS TSKBU0412391050710 01 15. 112. 85.0 14.19
1.54 1.76 15.73 0.00 26.40 0.40 2.15 19.28
ECAO TSKBU0441042020110 01 652. 3648. 63.9 12.28
1.54 50.41 13.82 0.00 28.50 18.58 68.99 18.91
ECAOINTSKBU0432182020110 01 161. 429. 30.5 13.07
1.54 6.28 14.61 0.00 32.00 5.15 11.43 26.61
ECAOINTSKBU0432182020210 01 56. 149. 30.5 13.07
1.54 2.18 14.61 0.00 32.00 1.79 3.98 26.61
WUMS TSKBU0411391020710 01 47. 350. 85.0 12.30
1.54 4.84 13.84 0.00 29.50 1.39 6.23 17.80
MANO TSKBU0441181010110 01 1156. 3084. 30.5 13.25
1.54 45.62 14.79 0.00 26.40 30.52 76.14 24.69
MANO TSKBU0441182020110 01 595. 4112. 78.9 11.60
1.54 54.04 13.14 0.00 26.40 15.71 69.75 16.96
VACANCTSKBU0632102020210 01 322. 599. 21.2 16.95
1.54 11.07 18.49 0.00 32.00 10.30 21.37 35.70
VACANCTSKBU0641102020210 01 266. 1488. 63.9 15.19
1.54 24.90 16.73 0.00 32.00 8.51 33.41 22.45
MAPP TSKSU1141261010110 01 222. 1385. 71.2 11.54
1.54 18.12 13.08 0.00 32.00 7.10 25.22 18.21
MECSMITSLBU0432152020110 01 318. 0. N/A 0.00
0.00 0.00 0.00 0.00 29.30 9.32 9.32 0.00
MECSMITSLBU0441152020110 01 156. 416. 30.5 15.49
1.54 7.09 17.03 0.00 26.40 4.12 11.21 26.93
ECAO TSLBU0231052020110 01 98. 548. 63.9 12.23
1.54 7.55 13.77 0.00 32.00 3.14 10.69 19.49

Proposed Hg Trading Rule + IAQR Region: System Page: 3. 14

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAO TSLBU0232052020110 01 | 98. | 469. | 54.6 | 12.63 | 1.54 | 6.65 | 14.17 | 0.00 | 32.00 | 3.14 | 9.78 | 20.86 |
| ECAO TSLBU0241052020110 01 | 137. | 656. | 54.6 | 12.26 | 1.54 | 9.05 | 13.80 | 0.00 | 32.00 | 4.38 | 13.43 | 20.49 |
| ECAO TSLBU0411141020710 01 | 66. | 491. | 85.0 | 11.08 | 1.54 | 6.20 | 12.62 | 0.00 | 30.70 | 2.03 | 8.23 | 16.75 |
| ECAO TSLBU0411141050710 01 | 20. | 149. | 85.0 | 11.08 | 1.54 | 1.88 | 12.62 | 0.00 | 32.00 | 0.64 | 2.52 | 16.91 |
| ECAO TSLBU0412141020710 01 | 12. | 89. | 85.0 | 12.96 | 1.54 | 1.30 | 14.50 | 0.00 | 32.00 | 0.38 | 1.68 | 18.80 |
| ECAO TSLBU0432141020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0632182020110 01 | 71. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 2.27 | 2.27 | 0.00 |
| MACENJTSLBU0112032020710 01 | 23. | 143. | 71.2 | 19.41 | 1.54 | 3.01 | 20.95 | 0.00 | 26.40 | 0.61 | 3.61 | 25.18 |
| WUMSWITSLBU1341392020110 01 | 144. | 1072. | 85.0 | 12.04 | 1.54 | 14.56 | 13.58 | 0.00 | 32.00 | 4.61 | 19.17 | 17.87 |
| MAPP TSLBU1112261020710 01 | 23. | 171. | 85.0 | 12.91 | 1.54 | 2.47 | 14.45 | 0.00 | 32.00 | 0.74 | 3.21 | 18.75 |
| MAPPNETSLBU1412281020310 01 | 35. | 242. | 78.9 | 13.93 | 1.54 | 3.74 | 15.47 | 0.00 | 32.00 | 1.12 | 4.86 | 20.10 |
| SPPNMOTSLBU0531281020110 01 | 97. | 608. | 71.6 | 10.04 | 1.54 | 7.04 | 11.58 | 0.00 | 26.40 | 2.56 | 9.60 | 15.79 |
| TVA TSLSU0641222020110 01 | 712. | 3600. | 57.7 | 15.38 | 1.54 | 60.92 | 16.92 | 0.00 | 32.00 | 22.78 | 83.70 | 23.25 |
| RMPA TSLSU0712261020110 01 | 22. | 124. | 64.2 | 13.53 | 1.54 | 1.87 | 15.07 | 0.00 | 32.00 | 0.70 | 2.57 | 20.76 |
| ECAO TSXBU0641041020110 01 | 290. | 1818. | 71.6 | 12.51 | 1.54 | 25.54 | 14.05 | 0.00 | 32.00 | 9.28 | 34.82 | 19.15 |
| MANO TSXBU0441192020110 01 | 672. | 3760. | 63.9 | 9.32 | 1.54 | 40.83 | 10.86 | 0.00 | 27.40 | 18.41 | 59.24 | 15.76 |
| NWPE TSXBU0841402020110 01 | 370. | 2755. | 85.0 | 8.11 | 1.54 | 26.59 | 9.65 | 0.00 | 28.90 | 10.69 | 37.28 | 13.53 |
| MANO TSYBU0432191010210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MANO TSZBU0431192020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MANO TSZBU0432192010210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBU0541272020110 01 | 222. | 1534. | 78.9 | 12.48 | 1.54 | 21.51 | 14.02 | 0.00 | 17.40 | 3.86 | 25.37 | 16.53 |
| Unscrubbed Coal 4 | 130941. | 815989. | 71.1 | 12.64 | 1.54 | 11568.44 | 14.18 | 0.00 | 25.93 | 3395.53 | 14963.97 | 18.34 |
| MECS STGAU0411 000000 00 | 65. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00    19.60     1.27     1.27     0.00
MECS  STGAU0412   000000 00                    20.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.43     0.43     0.00
MECS  STGAU0421   000000 00                    44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.94     0.94     0.00
ECAO  STGAU0211   000000 00                    35.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.75     0.75     0.00
ECAO  STGAU0221   000000 00                    88.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.88     1.88     0.00
ECAO  STGAU0411   000000 00                     6.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     0.12     0.12     0.00
ECAO  STGAU0421   000000 00                   308.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     6.59     6.59     0.00
ECAO  STGAU0611   000000 00                    58.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.24     1.24     0.00
ERCTTXSTGAU2011   000000 00                    96.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.05     2.05     0.00
ERCTTXSTGAU2021   000000 00                    78.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.67     1.67     0.00
ERCTTXSTGAU2211   000000 00                    12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.26     0.26     0.00
ERCTTXSTGAU2221   000000 00                    30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.64     0.64     0.00
ERCTTXSTGAU2511   000000 00                   144.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     3.08     3.08     0.00
ERCTTXSTGAU2521   000000 00                   205.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     4.39     4.39     0.00
ERCTTXSTGAU2711   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.12     0.12     0.00
MACE  STGAU0111   000000 00                    26.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.56     0.56     0.00
MACE  STGAU0121   000000 00                    54.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.16     1.16     0.00
MACE  STGAU0211   000000 00                    12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.26     0.26     0.00
MACE  STGAU0221   000000 00                    60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.64     0.64     0.00
WUMS  STGAU0412   000000 00                    18.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.39     0.39     0.00
WUMSWISTGAU1311   000000 00                    73.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     1.52     1.52     0.00
WUMSWISTGAU1321   000000 00                    58.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.24     1.24     0.00
MANO  STGAU0411   000000 00                    37.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.79     0.79     0.00
MANO  STGAU0421   000000 00                   377.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     8.07     8.07     0.00
MANOMOSTGAU0511   000000 00                    70.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.50     1.50     0.00
MAPP  STGAU1111   000000 00                   151.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     3.23     3.23     0.00
MAPP  STGAU1112   000000 00                    20.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.43     0.43     0.00
MAPP  STGAU1121   000000 00                   159.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     3.40     3.40     0.00
MAPPMOSTGAU0511   000000 00                    34.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.73     0.73     0.00
MAPPNESTGAU1411   000000 00                    19.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.41     0.41     0.00
MAPPWISTGAU1311   000000 00                    29.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.62     0.62     0.00
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Total Annual Costs
Year: 2005

| | | | | Variable Costs | | | | Fixed Costs | | | Total Costs | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | VOM mill/kWh | Total MMUS$ | Total mill/kWh | Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total MMUS$ | mill/kWh |
| UPNY STGAU0121 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.70 | 0.00 | 0.00 | 0.00 |
| NYC STGAU0121 000000 00 | 163. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 3.49 | 3.49 | 0.00 |
| LILC STGAU0121 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| NENG STGAU0111 000000 00 | 29. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.62 | 0.62 | 0.00 |
| NENG STGAU0121 000000 00 | 102. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.70 | 1.09 | 1.09 | 0.00 |
| NENG STGAU0911 000000 00 | 23. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.49 | 0.49 | 0.00 |
| NENG STGAU0921 000000 00 | 98. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 2.10 | 2.10 | 0.00 |
| NENGCTSTGAU3221 000000 00 | 73. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.56 | 1.56 | 0.00 |
| FRCCFLSTGAU1511 000000 00 | 87. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.86 | 1.86 | 0.00 |
| FRCCFLSTGAU1521 000000 00 | 1836. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 36.54 | 36.54 | 0.00 |
| VACA STGAU0621 000000 00 | 92. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.97 | 1.97 | 0.00 |
| SOU STGAU0611 000000 00 | 81. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.00 | 1.05 | 1.05 | 0.00 |
| SOU STGAU0621 000000 00 | 271. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.40 | 3.63 | 3.63 | 0.00 |
| SOU MSSTGAU1621 000000 00 | 170. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 3.64 | 3.64 | 0.00 |
| ENTG STGAU1011 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.90 | 0.00 | 0.00 | 0.00 |
| ENTG STGAU1021 000000 00 | 188. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.80 | 3.72 | 3.72 | 0.00 |
| ENTGMSSTGAU1611 000000 00 | 36. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.70 | 0.53 | 0.53 | 0.00 |
| SPPN STGAU1711 000000 00 | 76. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.63 | 1.63 | 0.00 |
| SPPN STGAU1721 000000 00 | 98. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 2.10 | 2.10 | 0.00 |
| SPPNMOSTGAU0511 000000 00 | 5. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.11 | 0.11 | 0.00 |
| SPPNMOSTGAU0521 000000 00 | 73. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.56 | 1.56 | 0.00 |
| SPPS STGAU1011 000000 00 | 60. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.28 | 1.28 | 0.00 |
| SPPS STGAU1021 000000 00 | 80. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.71 | 1.71 | 0.00 |
| SPPS STGAU3611 000000 00 | 46. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.98 | 0.98 | 0.00 |

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SPPS  STGAU3621   000000 00                    80.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.71     1.71     0.00
SPPSMSSTGAU1611   000000 00                    49.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.05     1.05     0.00
SPPSTXSTGAU2211   000000 00                    50.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.07     1.07     0.00
SPPSTXSTGAU2511   000000 00                    23.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.49     0.49     0.00
SPPSTXSTGAU2521   000000 00                    48.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.03     1.03     0.00
SPPSTXSTGAU3511   000000 00                    22.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.24     0.24     0.00
CALI  STGAU0811   000000 00                    40.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.86     0.86     0.00
CALI  STGAU0821   000000 00                    72.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.54     1.54     0.00
AZNM  STGAU0811   000000 00                    30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.64     0.64     0.00
AZNM  STGAU0821   000000 00                    76.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.63     1.63     0.00
RMPA  STGAU0811   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
RMPA  STGAU0821   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
NWPE  STGAU0822   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MECS  STHSU0411   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MECS  STHSU0421   000000 00                  1035.    1623.     17.9    29.66
 2.57    52.32    32.23     0.00    17.10    17.70    70.02    43.13
MECS  STHSU0422   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.60     0.00     0.00     0.00
ERCTTXSTHSU1821   000000 00                  2984.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.20    60.28    60.28     0.00
ERCTTXSTHSU2021   000000 00                  1078.    1136.     12.0    28.54
 2.57    35.35    31.11     0.00    20.60    22.21    57.56    50.65
ERCTTXSTHSU2221   000000 00                  3693.    1479.      4.6    28.08
 2.57    45.32    30.65     0.00    20.00    73.86   119.18    80.61
ERCTTXSTHSU2321   000000 00                   356.     375.     12.0    28.41
 2.57    11.63    30.98     0.00    14.70     5.23    16.86    44.92
ERCTTXSTHSU2421   000000 00                   795.    1467.     21.1    27.86
 2.57    44.65    30.43     0.00    20.20    16.06    60.71    41.38
ERCTTXSTHSU2521   000000 00                  2276.    3131.     15.7    28.12
 2.57    96.09    30.69     0.00    20.40    46.43   142.52    45.52
MACE  STHSU0112   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MACE  STHSU0121   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MACE  STHSU0211   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MACE  STHSU0221   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.00     0.00     0.00
MACE  STHSU0222   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.00     0.00     0.00
MACW  STHSU0221   000000 00                  1592.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    31.36    31.36     0.00
MACS  STHSU0222   000000 00                   550.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    10.84    10.84     0.00
DSNY  STHSU0121   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
LILC  STHSU0121   000000 00                   640.     271.      4.8    34.36
 2.57    10.02    36.93     0.00    20.60    13.19    23.21    85.52
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 16

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENG STHSU0122 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| NENG STHSU0921 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| NENG STHSU0922 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| NENG STHSU2821 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.30 | 0.00 | 0.00 | 0.00 |
| NENG STHSU2822 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.20 | 0.00 | 0.00 | 0.00 |
| NENGCTSTHSU3221 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| NENGCTSTHSU3222 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 0.00 | 0.00 | 0.00 |
| NENGNHSTHSU2922 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 0.00 | 0.00 | 0.00 |
| FRCCFLSTHSU1511 000000 00 | 15. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.32 | 0.32 | 0.00 |
| FRCCFLSTHSU1521 000000 00 | 1658. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.00 | 34.82 | 34.82 | 0.00 |
| FRCCFLSTHSU1522 000000 00 | 455. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 9.74 | 9.74 | 0.00 |
| SOU STHSU0621 000000 00 | 79. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.69 | 1.69 | 0.00 |
| SOU STHSU0622 000000 00 | 40. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.86 | 0.86 | 0.00 |
| ENTGMSSTHSU1621 000000 00 | 761. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 14.99 | 14.99 | 0.00 |
| ENTGTXSTHSU2721 000000 00 | 485. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.70 | 5.19 | 5.19 | 0.00 |
| ENTGTXSTHSU3421 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.80 | 0.00 | 0.00 | 0.00 |
| SPPN STHSU1711 000000 00 | 9. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.19 | 0.19 | 0.00 |
| SPPN STHSU1712 000000 00 | 38. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.50 | 0.78 | 0.78 | 0.00 |
| SPPN STHSU1721 000000 00 | 1104. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.20 | 23.40 | 23.40 | 0.00 |
| SPPN STHSU1722 000000 00 | 362. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.50 | 7.42 | 7.42 | 0.00 |
| CALI STHSU0821 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| CALI STHSU0822 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| RMPA STHSU0812 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| RMPA STHSU0822 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |

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ECAO  STLSU0222   000000 00                    44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.94     0.94     0.00
ECAO  STLSU0411   000000 00                    25.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.54     0.54     0.00
ECAO  STLSU0421   000000 00                   100.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.14     2.14     0.00
ERCTTXSTLSU1821   000000 00                  2829.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    58.84    58.84     0.00
ERCTTXSTLSU1822   000000 00                   352.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     7.53     7.53     0.00
ERCTTXSTLSU2011   000000 00                    16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.34     0.34     0.00
ERCTTXSTLSU2012   000000 00                    35.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.75     0.75     0.00
ERCTTXSTLSU2021   000000 00                   285.     260.     10.4    29.42
 2.57     8.31    31.99     0.00    20.70     5.90    14.21    54.70
ERCTTXSTLSU2022   000000 00                  1120.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.70    23.18    23.18     0.00
ERCTTXSTLSU2122   000000 00                  1066.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.70    15.67    15.67     0.00
ERCTTXSTLSU2212   000000 00                   126.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.70     2.70     0.00
ERCTTXSTLSU2221   000000 00                  4296.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60    88.50    88.50     0.00
ERCTTXSTLSU2222   000000 00                  1942.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    40.39    40.39     0.00
ERCTTXSTLSU2321   000000 00                   405.     427.     12.0    28.69
 2.57    13.35    31.26     0.00    14.70     5.95    19.30    45.20
ERCTTXSTLSU2322   000000 00                   146.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.70     2.15     2.15     0.00
ERCTTXSTLSU2422   000000 00                    87.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.86     1.86     0.00
ERCTTXSTLSU2511   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.24     0.24     0.00
ERCTTXSTLSU2512   000000 00                    75.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.60     1.60     0.00
ERCTTXSTLSU2521   000000 00                   726.     765.     12.0    29.96
 2.57    24.90    32.53     0.00    20.20    14.67    39.56    51.70
ERCTTXSTLSU2522   000000 00                   386.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.10     8.14     8.14     0.00
ERCTTXSTLSU3521   000000 00                   204.     215.     12.0    29.41
 2.57     6.88    31.98     0.00    14.70     3.00     9.88    45.92
ERCTTXSTLSU3522   000000 00                   111.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     2.19     2.19     0.00
MACE  STLSU0121   000000 00                  1214.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    25.98    25.98     0.00
MACE  STLSU0122   000000 00                   558.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    11.94    11.94     0.00
MACE  STLSU0221   000000 00                   493.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    10.55    10.55     0.00
MACE  STLSU0222   000000 00                   884.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.00    17.68    17.68     0.00
MACS  STLSU0221   000000 00                   612.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     6.55     6.55     0.00
MACS  STLSU0222   000000 00                  1492.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10    29.99    29.99     0.00
MANO  STLSU0412   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.24     0.24     0.00
MANO  STLSU0421   000000 00                  2866.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.00    40.12    40.12     0.00
MAPP  STLSU0711   000000 00                    18.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.39     0.39     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP STLSU0721 000000 00 | 43. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.92 | 0.92 | 0.00 |
| MAPP STLSU1111 000000 00 | 71. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.52 | 1.52 | 0.00 |
| MAPP STLSU1112 000000 00 | 23. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 0.46 | 0.46 | 0.00 |
| MAPPNESTLSU1412 000000 00 | 72. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.54 | 1.54 | 0.00 |
| MAPPNESTLSU1421 000000 00 | 107. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 2.29 | 2.29 | 0.00 |
| MAPPNESTLSU1422 000000 00 | 54. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 1.06 | 1.06 | 0.00 |
| UPNY STLSU0121 000000 00 | 820. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.70 | 8.77 | 8.77 | 0.00 |
| DSNY STLSU0121 000000 00 | 2619. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 52.12 | 52.12 | 0.00 |
| NYC STLSU0121 000000 00 | 4747. | 11796. | 28.4 | 34.36 | 2.57 | 435.59 | 36.93 | 0.00 | 20.90 | 99.21 | 534.80 | 45.34 |
| NYC STLSU0122 000000 00 | 130. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 2.78 | 2.78 | 0.00 |
| LILC STLSU0121 000000 00 | 987. | 3105. | 35.9 | 34.96 | 2.57 | 116.52 | 37.53 | 0.00 | 20.70 | 20.43 | 136.95 | 44.11 |
| NENG STLSU0121 000000 00 | 805. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 17.23 | 17.23 | 0.00 |
| NENG STLSU0922 000000 00 | 50. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.70 | 0.54 | 0.54 | 0.00 |
| NENG STLSU2821 000000 00 | 588. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 11.58 | 11.58 | 0.00 |
| NENGCTSTLSU3221 000000 00 | 610. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.20 | 12.32 | 12.32 | 0.00 |
| NENGCTSTLSU3222 000000 00 | 402. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 7.92 | 7.92 | 0.00 |
| FRCCFLSTLSU1511 000000 00 | 49. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.05 | 1.05 | 0.00 |
| FRCCFLSTLSU1512 000000 00 | 38. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.81 | 0.81 | 0.00 |
| FRCCFLSTLSU1521 000000 00 | 6501. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.30 | 125.47 | 125.47 | 0.00 |
| FRCCFLSTLSU1522 000000 00 | 694. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.90 | 14.50 | 14.50 | 0.00 |
| VACAVASTLSU0321 000000 00 | 818. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 16.11 | 16.11 | 0.00 |
| VACAVASTLSU0322 000000 00 | 929. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 18.58 | 18.58 | 0.00 |
| SOU MSSTLSU1621 000000 00 | 193. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 4.13 | 4.13 | 0.00 |
| SOU MSSTLSU1622 000000 00 | 264. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.30 | 5.36 | 5.36 | 0.00 |

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ENTG  STLSU1021   000000 00                    3566.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10    71.67    71.67     0.00
ENTG  STLSU1022   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00                     532.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    10.48    10.48     0.00
SPPNMOSTLSU0512   000000 00                     16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.34     0.34     0.00
SPPNMOSTLSU0521   000000 00                     44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.47     0.47     0.00
SPPS  STLSU0821   000000 00                    314.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     6.72     6.72     0.00
SPPS  STLSU0822   000000 00                     71.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.52     1.52     0.00
SPPS  STLSU1011   000000 00                     37.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     0.77     0.77     0.00
SPPS  STLSU1012   000000 00                    140.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10     2.81     2.81     0.00
SPPS  STLSU1021   000000 00                   1721.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.30    34.94    34.94     0.00
SPPS  STLSU1022   000000 00                    649.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    13.50    13.50     0.00
SPPS  STLSU3612   000000 00                     24.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.51     0.51     0.00
SPPS  STLSU3621   000000 00                   4755.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10    95.58    95.58     0.00
SPPS  STLSU3622   000000 00                    805.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.30    17.15    17.15     0.00
SPPSMSSTLSU1612   000000 00                     30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.64     0.64     0.00
SPPSTXSTLSU2221   000000 00                   1219.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.00    24.38    24.38     0.00
SPPSTXSTLSU2222   000000 00                    127.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.72     2.72     0.00
SPPSTXSTLSU2521   000000 00                   1134.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.30    23.02    23.02     0.00
SPPSTXSTLSU2522   000000 00                    255.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     5.46     5.46     0.00
SPPSTXSTLSU3522   000000 00                     54.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.70     0.79     0.79     0.00
CALI  STLSU0821   000000 00                   5179.   18744.     41.3    29.74
 2.57   605.57    32.31     0.00    20.90   108.24   713.81    38.08
CALI  STLSU0822   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
PNW   STLSU0721   000000 00                     47.     155.     37.6    26.14
 2.57     4.45    28.71     0.00    10.70     0.50     4.95    31.96
AZNM  STLSU0812   000000 00                     39.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.83     0.83     0.00
AZNM  STLSU0821   000000 00                   1054.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.10    22.24    22.24     0.00
AZNM  STLSU0822   000000 00                    815.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    17.44    17.44     0.00
AZNMTXSTLSU2621   000000 00                    266.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     5.69     5.69     0.00
NWPE  STLSU0821   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10     0.00     0.00     0.00
NWPE  STLSU0822   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3. 18
Total Annual Costs
Year: 2005

| Unit | Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oil/Gas Steam | | 5 | 93621. | 44949. | 5.5 | 31.04 | 2.57 | 1510.94 | 33.61 | 0.00 | 19.81 | 1854.63 | 3365.58 | 74.88 |
| MACE | STHSN0121 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STHSN3221 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STLSC2512 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.50 | 0.00 | 0.00 | 0.00 |
| CALI | STLSC0811 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.50 | 0.00 | 0.00 | 0.00 |
| CALI | STLSC0821 | 000000 00 | 31. | 185. | 68.0 | 29.55 | 2.67 | 5.95 | 32.22 | 0.00 | 22.40 | 0.69 | 6.65 | 35.98 |
| CALI | STLSN0812 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.00 | 0.00 | 0.00 |
| CALI | STLSN0821 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.00 | 0.00 | 0.00 |
| CALI | STLSN0822 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.00 | 0.00 | 0.00 |
| ERCTTX | STHSC1821 | 000000 00 | 739. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.90 | 15.45 | 15.45 | 0.00 |
| ERCTTX | STHSC1921 | 000000 00 | 750. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.90 | 15.67 | 15.67 | 0.00 |
| CALI | STHSC0821 | 000000 00 | 3028. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.20 | 64.19 | 64.19 | 0.00 |
| CALI | STHSC0822 | 000000 00 | 222. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.90 | 4.64 | 4.64 | 0.00 |
| ERCTTX | STHSO2521 | 000000 00 | 116. | 122. | 12.0 | 27.75 | 3.02 | 3.76 | 30.77 | 0.00 | 20.00 | 2.32 | 6.08 | 49.74 |
| ERCTTX | STHSO3521 | 000000 00 | 200. | 211. | 12.0 | 27.91 | 3.02 | 6.52 | 30.93 | 0.00 | 20.00 | 4.00 | 10.52 | 49.90 |
| ERCTTX | STLSO2021 | 000000 00 | 940. | 991. | 12.0 | 28.75 | 3.02 | 31.48 | 31.77 | 0.00 | 21.60 | 20.30 | 51.78 | 52.26 |
| ERCTTX | STLSO2022 | 000000 00 | 1083. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.00 | 22.74 | 22.74 | 0.00 |
| NENG | STLSO0922 | 000000 00 | 615. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.00 | 9.22 | 9.22 | 0.00 |
| NENG | STGAO0111 | 000000 00 | 7. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.15 | 0.15 | 0.00 |
| CALI | STGAC0821 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.50 | 0.00 | 0.00 | 0.00 |
| NENG | STHSD2821 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 |
| Oil/Gas Steam_Nox | | 6 | 7731. | 1509. | 2.2 | 28.65 | 2.98 | 47.71 | 31.63 | 0.00 | 20.62 | 159.39 | 207.10 | 137.27 |

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MAPP  NUKE 00    7000000 00                    561.    4481.     91.2     4.41
 0.82    23.43     5.23     0.00   176.10    98.79   122.23    27.28
NENG  NUKE 00    8000000 00                    665.    5327.     91.4     4.12
 1.32    28.99     5.44     0.00   254.10   168.98   197.96    37.16
MAPP  NUKE 00    7000000 00                    529.    4265.     92.0     4.36
 0.59    21.12     4.95     0.00    95.60    50.57    71.69    16.81
MANO  NUKE 00    8000000 00                   1072.    8508.     90.6     4.06
 1.32    45.79     5.38     0.00   184.60   197.89   243.68    28.64
SPPN  NUKE 00    7000000 00                   1182.    9752.     94.2     3.95
 0.56    44.02     4.51     0.00    92.90   109.81   153.83    15.77
MACE  NUKE 00    7000000 00                   1155.    9162.     90.6     4.37
 0.98    48.99     5.35     0.00   141.50   163.43   212.42    23.18
MACE  NUKE 00    8000000 00                   1093.    8943.     93.4     4.23
 0.64    43.52     4.87     0.00   165.10   180.45   223.98    25.04
MACE  NUKE 00    8000000 00                   1093.    9038.     94.4     4.27
 0.64    44.38     4.91     0.00   165.10   180.45   224.84    24.88
VACA  NUKE 00    8000000 00                    701.    5899.     96.1     4.12
 0.51    27.29     4.63     0.00   137.70    96.53   123.81    20.99
VACA  NUKE 00    8000000 00                    854.    6741.     90.1     4.22
 0.66    32.87     4.88     0.00   147.10   125.62   158.49    23.51
VACA  NUKE 00    8000000 00                    854.    7114.     95.1     4.18
 0.66    34.41     4.84     0.00   147.10   125.62   160.04    22.50
CALI  NUKE 00    7000000 00                   1070.    8945.     95.4     4.00
 0.86    43.51     4.86     0.00   140.30   150.12   193.63    21.65
NENG  NUKE 00    7000000 00                    506.    4300.     97.0     4.10
 1.18    22.71     5.28     0.00   240.70   121.79   144.50    33.60
VACA  NUKE 00    8000000 00                    827.    6727.     92.9     4.08
 0.46    30.52     4.54     0.00   134.20   110.98   141.51    21.04
ENTG  NUKE 00    8000000 00                   1141.    9483.     94.9     4.27
 0.67    46.83     4.94     0.00   131.60   150.16   196.99    20.77
TVA   NUKE 00    7000000 00                   1244.   10092.     92.6     4.22
 0.32    45.86     4.54     0.00   109.50   136.22   182.08    18.04
TVA   NUKE 00    7000000 00                   1244.   10506.     96.4     4.22
 0.32    47.74     4.54     0.00    59.50    74.02   121.76    11.59
AZNM  NUKE 00    7000000 00                   1255.   10272.     93.4     4.31
 0.42    48.56     4.73     0.00    84.20   105.67   154.23    15.01
AZNM  NUKE 00    7000000 00                   1310.   10334.     90.1     4.25
 0.42    48.28     4.67     0.00    84.20   110.30   158.58    15.35
MACS  NUKE 00    9000000 00                    875.    7212.     94.1     4.40
 0.61    36.11     5.01     0.00   161.00   140.88   176.99    24.54
MACS  NUKE 00    9000000 00                    850.    6854.     92.0     4.41
 0.61    34.38     5.02     0.00   111.00    94.35   128.73    18.78
VACA  NUKE 00    7000000 00                    915.    7772.     97.0     4.06
 0.42    34.80     4.48     0.00    82.10    75.12   109.92    14.14
VACA  NUKE 00    7000000 00                    904.    7575.     95.7     4.24
 0.42    35.30     4.66     0.00   132.10   119.42   154.72    20.42
MANO  NUKE 00    7000000 00                   1182.   10014.     96.7     4.17
 0.51    46.86     4.68     0.00    91.60   108.27   155.13    15.49
MANO  NUKE 00    7000000 00                   1175.    9929.     96.5     4.17
 0.51    46.46     4.68     0.00    91.60   107.63   154.09    15.52
MANO  NUKE 00    7000000 00                   1199.    9809.     93.4     4.21
 0.50    46.22     4.71     0.00    88.40   105.99   152.21    15.52
MANO  NUKE 00    7000000 00                   1191.    9882.     94.7     4.13
 0.50    45.73     4.63     0.00    88.40   105.28   151.01    15.28
MANO  NUKE 00    7000000 00                   1128.    9644.     97.6     4.29
 0.78    48.86     5.07     0.00   112.50   126.90   175.76    18.23
MANO  NUKE 00    7000000 00                   1131.    9318.     94.0     4.34
 0.78    47.71     5.12     0.00   112.50   127.24   174.95    18.77
VACA  NUKE 00    7000000 00                   1140.    9496.     95.1     4.08
 0.47    43.24     4.55     0.00    83.40    95.08   138.32    14.57
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 19

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACA NUKE 00 7000000 00 | 1100. | 9148. | 94.9 | 4.24 | 0.49 | 43.29 | 4.73 | 0.00 | 91.60 | 100.76 | 144.05 | 15.75 |
| VACA NUKE 00 7000000 00 | 1100. | 9043. | 93.8 | 4.15 | 0.49 | 41.93 | 4.64 | 0.00 | 91.60 | 100.76 | 142.69 | 15.78 |
| ECAO NUKE 00 8000000 00 | 810. | 6662. | 93.9 | 4.28 | 0.91 | 34.55 | 5.19 | 0.00 | 133.00 | 107.73 | 142.28 | 21.36 |
| FRCC NUKE 00 8000000 00 | 847. | 7094. | 95.6 | 4.42 | 0.53 | 35.14 | 4.95 | 0.00 | 93.80 | 79.45 | 114.59 | 16.15 |
| SOU NUKE 00 7000000 00 | 865. | 7024. | 92.7 | 4.41 | 0.69 | 35.83 | 5.10 | 0.00 | 149.60 | 129.40 | 165.24 | 23.53 |
| ENTG NUKE 00 7000000 00 | 1231. | 10439. | 96.8 | 4.52 | 0.53 | 52.68 | 5.05 | 0.00 | 104.00 | 128.02 | 180.70 | 17.31 |
| CALI NUKE 00 7000000 00 | 1095. | 8789. | 91.6 | 4.23 | 0.62 | 42.66 | 4.85 | 0.00 | 95.90 | 105.01 | 147.67 | 16.80 |
| CALI NUKE 00 7000000 00 | 1109. | 9071. | 93.4 | 4.25 | 0.62 | 44.21 | 4.87 | 0.00 | 95.90 | 106.35 | 150.56 | 16.60 |
| MACW NUKE 00 7000000 00 | 1140. | 9205. | 92.2 | 4.25 | 0.57 | 44.41 | 4.82 | 0.00 | 92.40 | 105.34 | 149.75 | 16.27 |
| MACW NUKE 00 7000000 00 | 1146. | 9167. | 91.3 | 4.24 | 0.57 | 44.05 | 4.81 | 0.00 | 92.40 | 105.89 | 149.94 | 16.36 |
| MACE NUKE 00 8000000 00 | 1134. | 9458. | 95.2 | 4.30 | 0.46 | 45.01 | 4.76 | 0.00 | 89.40 | 101.38 | 146.39 | 15.48 |
| MACE NUKE 00 8000000 00 | 1150. | 9592. | 95.2 | 4.26 | 0.46 | 45.23 | 4.72 | 0.00 | 89.40 | 102.81 | 148.04 | 15.43 |
| UPNY NUKE 00 7000000 00 | 498. | 4044. | 92.7 | 4.25 | 0.74 | 20.17 | 4.99 | 0.00 | 192.50 | 95.86 | 116.04 | 28.70 |
| ERCT NUKE 00 7000000 00 | 1185. | 9651. | 93.0 | 4.30 | 0.52 | 46.53 | 4.82 | 0.00 | 81.80 | 96.93 | 143.47 | 14.87 |
| ECAO NUKE 00 8000000 00 | 873. | 7208. | 94.3 | 4.11 | 0.66 | 34.41 | 4.77 | 0.00 | 104.00 | 90.79 | 125.20 | 17.37 |
| TVA NUKE 00 7000000 00 | 1140. | 9615. | 96.3 | 4.12 | 0.37 | 43.17 | 4.49 | 0.00 | 83.70 | 95.42 | 138.59 | 14.41 |
| MANO NUKE 00 7000000 00 | 1154. | 9276. | 91.8 | 4.24 | 0.57 | 44.58 | 4.81 | 0.00 | 87.60 | 101.09 | 145.67 | 15.70 |
| FRCC NUKE 00 8000000 00 | 700. | 5660. | 92.3 | 4.46 | 0.57 | 28.50 | 5.03 | 0.00 | 155.20 | 108.64 | 137.14 | 24.23 |
| FRCC NUKE 00 8000000 00 | 700. | 5889. | 96.0 | 4.46 | 0.57 | 29.63 | 5.03 | 0.00 | 155.20 | 108.64 | 138.27 | 23.48 |
| ERCT NUKE 00 7000000 00 | 1265. | 10147. | 91.6 | 4.11 | 0.48 | 46.58 | 4.59 | 0.00 | 92.40 | 116.89 | 163.46 | 16.11 |
| FRCC NUKE 00 7000000 00 | 842. | 6651. | 90.2 | 4.32 | 1.24 | 36.99 | 5.56 | 0.00 | 182.80 | 153.92 | 190.91 | 28.70 |
| SOU NUKE 00 7000000 00 | 1148. | 9627. | 95.7 | 4.40 | 0.38 | 46.05 | 4.78 | 0.00 | 78.50 | 90.12 | 136.17 | 14.14 |
| SOU NUKE 00 7000000 00 | 1149. | 9758. | 96.9 | 4.40 | 0.38 | 46.68 | 4.78 | 0.00 | 78.50 | 90.20 | 136.87 | 14.03 |
| TVA NUKE 00 7000000 00 | 1128. | 9349. | 94.6 | 4.35 | 0.57 | 45.99 | 4.92 | 0.00 | 99.20 | 111.90 | 157.89 | 16.89 |

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ENTG  NUKE 00    7000000 00                    885.    7061.     91.1     4.49
 0.56    35.64     5.05     0.00   166.00   146.91   182.55    25.85
MANO  NUKE 00    7000000 00                    850.    7249.     97.4     4.51
 0.86    38.94     5.37     0.00   196.50   167.03   205.96    28.41
MANO  NUKE 00    7000000 00                    855.    7203.     96.2     4.43
 0.94    38.70     5.37     0.00   188.00   160.74   199.44    27.69
MANO  NUKE 00    7000000 00                    855.    6878.     91.8     4.44
 0.94    37.02     5.38     0.00   188.00   160.74   197.76    28.75
DSNY  NUKE 00    8000000 00                    984.    8221.     95.4     4.18
 1.03    42.85     5.21     0.00   145.30   142.98   185.83    22.60
ERCT  NUKE 00    7000000 00                   1185.    9305.     89.6     4.28
 0.52    44.68     4.80     0.00    81.80    96.93   141.61    15.22
MECS  NUKE 00    8000000 00                    767.    5038.     75.0     4.20
 0.80    25.18     5.00     0.00   179.20   137.45   162.63    32.28
MECS  NUKE 00    7000000 00                   1110.    8641.     88.9     5.21
 0.75    51.51     5.96     0.00   109.80   121.88   173.39    20.07
MAPP  NUKE 00    7000000 00                    597.    4174.     79.8     4.23
 0.70    20.59     4.93     0.00   109.60    65.43    86.02    20.61
MAPP  NUKE 00    7000000 00                    530.    4126.     88.9     4.35
 0.59    20.39     4.94     0.00   145.60    77.17    97.56    23.64
MAPP  NUKE 00    7000000 00                    476.    3704.     88.8     4.31
 1.20    20.41     5.51     0.00   232.50   110.67   131.08    35.39
MACE  NUKE 00    8000000 00                    605.    4459.     84.1     4.35
 1.32    25.28     5.67     0.00   254.60   154.03   179.31    40.22
MACE  NUKE 00    7000000 00                   1130.    8848.     89.4     4.33
 0.98    46.97     5.31     0.00   141.50   159.90   206.86    23.38
DSNY  NUKE 00    7000000 00                    953.    6258.     75.0     4.10
 1.25    33.46     5.35     0.00   237.60   226.43   259.90    41.53
UPNY  NUKE 00    8000000 00                    619.    4531.     83.6     4.35
 1.07    24.56     5.42     0.00   206.50   127.82   152.38    33.63
UPNY  NUKE 00    7000000 00                   1154.    8655.     85.6     4.35
 0.78    44.40     5.13     0.00   117.70   135.83   180.22    20.82
VACA  NUKE 00    8000000 00                    854.    5994.     80.1     4.19
 0.66    29.08     4.85     0.00   147.10   125.62   154.70    25.81
CALI  NUKE 00    7000000 00                   1080.    7766.     82.1     4.00
 0.86    37.78     4.86     0.00   140.30   151.52   189.30    24.38
PNW   NUKE 00    7000000 00                   1123.    8851.     90.0     4.08
 0.66    41.92     4.74     0.00   103.70   116.46   158.37    17.89
VACA  NUKE 00    8000000 00                    810.    6242.     88.0     4.08
 0.46    28.33     4.54     0.00   134.20   108.70   137.03    21.95
WUMS  NUKE 00    8000000 00                    512.    3972.     88.6     4.21
 0.98    20.62     5.19     0.00   195.70   100.20   120.82    30.42
WUMS  NUKE 00    8000000 00                    514.    3987.     88.6     4.25
 0.98    20.87     5.23     0.00   195.70   100.59   121.46    30.46
NENG  NUKE 00    8000000 00                    872.    6860.     89.8     4.11
 1.17    36.23     5.28     0.00   211.90   184.78   221.01    32.22
NENG  NUKE 00    8000000 00                   1146.    9033.     90.0     4.04
 1.23    47.56     5.27     0.00   158.10   181.18   228.74    25.32
ECAO  NUKE 00    8000000 00                   1017.    6679.     75.0     4.34
 1.14    36.62     5.48     0.00   206.80   210.32   246.93    36.97
ECAO  NUKE 00    8000000 00                   1060.    7032.     75.7     4.33
 1.14    38.45     5.47     0.00   156.80   166.21   204.66    29.10
SOU   NUKE 00    7000000 00                    851.    5956.     79.9     4.46
 0.65    30.40     5.10     0.00   100.80    85.78   116.18    19.51
SOU   NUKE 00    7000000 00                    860.    6777.     90.0     4.46
 0.65    34.60     5.10     0.00   100.80    86.69   121.29    17.90
AZNM  NUKE 00    7000000 00                   1259.    9895.     89.7     4.23
 0.42    45.99     4.65     0.00    84.20   106.01   152.00    15.36
VACA  NUKE 00    7000000 00                    900.    6294.     79.8     4.10
 0.53    29.14     4.63     0.00    99.90    89.91   119.05    18.92
ECAO  NUKE 00    7000000 00                   1238.    9184.     84.7     4.16
 0.60    43.69     4.76     0.00   109.60   135.68   179.37    19.53
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACA NUKE 00 7000000 00 | 1140. | 8986. | 90.0 | 4.11 | 0.47 | 41.12 | 4.58 | 0.00 | 83.40 | 95.08 | 136.20 | 15.16 |
| ECAO NUKE 00 8000000 00 | 810. | 5931. | 83.6 | 4.39 | 0.91 | 31.46 | 5.30 | 0.00 | 133.00 | 107.73 | 139.19 | 23.47 |
| FRCC NUKE 00 8000000 00 | 847. | 6499. | 87.6 | 4.50 | 0.53 | 32.67 | 5.03 | 0.00 | 93.80 | 79.45 | 112.12 | 17.25 |
| SOU NUKE 00 7000000 00 | 879. | 6912. | 89.8 | 4.45 | 0.69 | 35.51 | 5.14 | 0.00 | 99.60 | 87.55 | 123.06 | 17.80 |
| UPNY NUKE 00 7000000 00 | 840. | 6571. | 89.3 | 4.04 | 0.77 | 31.57 | 4.81 | 0.00 | 192.60 | 161.78 | 193.36 | 29.43 |
| NENG NUKE 00 7000000 00 | 1161. | 8530. | 83.9 | 4.11 | 0.75 | 41.47 | 4.86 | 0.00 | 122.00 | 141.64 | 183.11 | 21.47 |
| MACE NUKE 00 7000000 00 | 1131. | 8639. | 87.2 | 4.38 | 0.78 | 44.60 | 5.16 | 0.00 | 113.80 | 128.71 | 173.31 | 20.06 |
| VACA NUKE 00 8000000 00 | 976. | 6814. | 79.7 | 4.35 | 0.51 | 33.12 | 4.86 | 0.00 | 87.80 | 85.69 | 118.81 | 17.44 |
| TVA NUKE 00 7000000 00 | 1147. | 8720. | 86.8 | 4.12 | 0.37 | 39.15 | 4.49 | 0.00 | 83.70 | 96.00 | 135.15 | 15.50 |
| VACA NUKE 00 7000000 00 | 940. | 7357. | 89.3 | 4.07 | 0.35 | 32.52 | 4.42 | 0.00 | 68.60 | 64.48 | 97.00 | 13.19 |
| VACA NUKE 00 7000000 00 | 932. | 7252. | 88.8 | 4.07 | 0.35 | 32.06 | 4.42 | 0.00 | 68.60 | 63.94 | 95.99 | 13.24 |
| ERCT NUKE 00 7000000 00 | 1250. | 9707. | 88.6 | 4.25 | 0.48 | 45.91 | 4.73 | 0.00 | 92.40 | 115.50 | 161.41 | 16.63 |
| ENTG NUKE 00 7000000 00 | 980. | 7724. | 90.0 | 4.62 | 0.72 | 41.27 | 5.34 | 0.00 | 103.40 | 101.33 | 142.60 | 18.46 |
| MACW NUKE 00 7000000 00 | 806. | 6272. | 88.8 | 4.51 | 0.93 | 34.15 | 5.44 | 0.00 | 181.30 | 146.13 | 180.28 | 28.74 |
| WUMS NUKE 00 7000000 00 | 498. | 3631. | 83.2 | 4.46 | 0.83 | 19.20 | 5.29 | 0.00 | 163.50 | 81.42 | 100.62 | 27.71 |
| MAPP NUKE 00 7000000 00 | 758. | 4978. | 75.0 | 4.34 | 0.93 | 26.25 | 5.27 | 0.00 | 185.20 | 140.38 | 166.63 | 33.48 |
| ENTG NUKE 00 7000000 00 | 936. | 6545. | 79.8 | 4.64 | 0.56 | 34.00 | 5.20 | 0.00 | 116.00 | 108.58 | 142.58 | 21.78 |
| MANO NUKE 00 7000000 00 | 850. | 6688. | 89.8 | 4.50 | 0.86 | 35.85 | 5.36 | 0.00 | 196.50 | 167.03 | 202.88 | 30.34 |
| NENG NUC 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG NUC 0 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG NUC 0 (c) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY NUC 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY NUC 0 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY NUC 0 (c) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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DSNY  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NWPE NUC 0 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE NUC 0 (c) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM NUC 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM NUC 0 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM NUC 0 (c) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW NUC 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW NUC 0 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW NUC 0 (c) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI NUC 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI NUC 0 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI NUC 0 (c) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO NUC 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO NUC 0 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO NUC 0 (c) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS NUC 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS NUC 0 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS NUC 0 (c) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE NUC 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE NUC 0 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE NUC 0 (c) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW NUC 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW NUC 0 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW NUC 0 (c) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS NUC 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACS  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Nuclear                          7            99087.  785586.     90.5     4.27
 0.67  3876.46     4.93     0.00   124.24 12310.87 16187.32    20.61

MECS  HYDRO00     000000 00                    158.    1013.     73.2     0.00
 0.00     0.00     0.00     0.00    15.40     2.43     2.43     2.40
ECAO  HYDRO00     000000 00                   1109.    2974.     30.6     0.00
 0.00     0.00     0.00     0.00    15.00    16.64    16.64     5.59
ERCT  HYDRO00     000000 00                    356.     796.     25.5     0.00
 0.00     0.00     0.00     0.00    15.50     5.52     5.52     6.93
MACE  HYDRO00     000000 00                    522.    4115.     90.0     0.00
 0.00     0.00     0.00     0.00    15.50     8.09     8.09     1.97
MACW  HYDRO00     000000 00                    649.    2144.     37.7     0.00
 0.00     0.00     0.00     0.00    14.90     9.67     9.67     4.51
MACS  HYDRO00     000000 00                     18.      59.     37.3     0.00
 0.00     0.00     0.00     0.00    15.50     0.28     0.28     4.74
WUMS  HYDRO00     000000 00                    354.    1683.     54.3     0.00
 0.00     0.00     0.00     0.00    15.40     5.45     5.45     3.24
MANO  HYDRO00     000000 00                    362.    1826.     57.6     0.00
 0.00     0.00     0.00     0.00    15.50     5.61     5.61     3.07
MAPP  HYDRO00     000000 00                   3204.    9989.     35.6     0.00
 0.00     0.00     0.00     0.00    15.40    49.34    49.34     4.94
UPNY  HYDRO00     000000 00                   5551.   25889.     53.2     0.00
 0.00     0.00     0.00     0.00    15.50    86.04    86.04     3.32
DSNY  HYDRO00     000000 00                    442.    2061.     53.2     0.00
 0.00     0.00     0.00     0.00    14.60     6.45     6.45     3.13
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENG HYDRO00 000000 00 | 2059. | 5212. | 28.9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.20 | 31.30 | 31.30 | 6.00 |
| FRCC HYDRO00 000000 00 | 47. | 121. | 29.3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.10 | 0.71 | 0.71 | 5.87 |
| VACA HYDRO00 000000 00 | 3799. | 9575. | 28.8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.20 | 57.74 | 57.74 | 6.03 |
| TVA HYDRO00 000000 00 | 3934. | 17724. | 51.4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.40 | 60.58 | 60.58 | 3.42 |
| SOU HYDRO00 000000 00 | 3305. | 8844. | 30.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.90 | 49.24 | 49.24 | 5.57 |
| ENTG HYDRO00 000000 00 | 336. | 1120. | 38.1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.20 | 4.77 | 4.77 | 4.26 |
| SPPN HYDRO00 000000 00 | 333. | 1020. | 35.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.10 | 5.03 | 5.03 | 4.93 |
| SPPS HYDRO00 000000 00 | 2445. | 8150. | 38.1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.00 | 36.67 | 36.67 | 4.50 |
| CALI HYDRO00 000000 00 | 11313. | 34405. | 34.7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.00 | 169.69 | 169.69 | 4.93 |
| PNW HYDRO00 000000 00 | 42633. | 111087. | 29.7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.80 | 630.97 | 630.97 | 5.68 |
| AZNM HYDRO00 000000 00 | 2490. | 7022. | 32.2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.40 | 38.35 | 38.35 | 5.46 |
| RMPA HYDRO00 000000 00 | 2692. | 7592. | 32.2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.30 | 41.19 | 41.19 | 5.43 |
| NWPE HYDRO00 000000 00 | 1758. | 4958. | 32.2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.20 | 26.72 | 26.72 | 5.39 |
| Hydro 8 | 89869. | 269380. | 34.2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.01 | 1348.50 | 1348.50 | 5.01 |
| MECS CC 0413 000000 00 | 42. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.40 | 0.60 | 0.60 | 0.00 |
| MECS CC 0422 000000 00 | 1456. | 984. | 7.7 | 23.20 | 1.03 | 23.86 | 24.23 | 0.00 | 13.90 | 20.24 | 44.09 | 44.80 |
| ECAO CC 0222 000000 00 | 1491. | 589. | 4.5 | 23.91 | 1.03 | 14.69 | 24.94 | 0.00 | 14.00 | 20.87 | 35.57 | 60.38 |
| ECAO CC 0224 000000 00 | 168. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 3.34 | 3.34 | 0.00 |
| ECAO CC 0422 000000 00 | 4912. | 4270. | 9.9 | 23.56 | 1.03 | 105.02 | 24.59 | 0.00 | 13.90 | 68.28 | 173.29 | 40.58 |
| ERCTTXCC 1922 000000 00 | 1108. | 2797. | 28.8 | 21.38 | 1.03 | 62.67 | 22.41 | 0.00 | 13.90 | 15.40 | 78.07 | 27.91 |
| ERCTTXCC 1923 000000 00 | 463. | 79. | 2.0 | 29.71 | 1.03 | 2.44 | 30.74 | 0.00 | 19.90 | 9.21 | 11.65 | 146.89 |
| ERCTTXCC 1924 000000 00 | 162. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 3.22 | 3.22 | 0.00 |
| ERCTTXCC 2313 000000 00 | 7. | 5. | 8.4 | 31.68 | | | | | | | | |

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 1.03     0.17    32.71     0.00    14.90     0.10     0.27    52.88
ERCTTXCC   2322   000000 00                  4495.   24726.     62.8    21.33
 1.03   552.75    22.36     0.00    13.90    62.48   615.24    24.88
ERCTTXCC   2513   000000 00                    22.      39.     20.2    27.24
 1.03     1.10    28.27     0.00    19.90     0.44     1.54    39.51
ERCTTXCC   2514   000000 00                     3.       2.      8.4    33.84
 1.03     0.08    34.87     0.00    19.90     0.06     0.14    61.81
ERCTTXCC   2523   000000 00                   103.     182.     20.2    27.24
 1.03     5.15    28.27     0.00    19.90     2.05     7.20    39.51
ERCTTXCC   2524   000000 00                    36.      15.      4.6    33.70
 1.03     0.51    34.73     0.00    19.90     0.72     1.22    83.82
ERCTTXCC   2722   000000 00                  8847.   69244.     89.3    21.31
 1.03  1547.01    22.34     0.00    13.90   122.97  1669.98    24.12
ERCTTXCC   3522   000000 00                  2623.   17834.     77.6    21.34
 1.03   398.92    22.37     0.00    13.90    36.46   435.38    24.41
ERCTTXCC   3523   000000 00                   258.     191.      8.4    31.68
 1.03     6.23    32.71     0.00    13.90     3.59     9.82    51.53
MACE  CC   0122   000000 00                  3085.    5323.     19.7    25.42
 1.03   140.81    26.45     0.00    13.90    42.88   183.69    34.51
MACE  CC   0123   000000 00                   762.     131.      2.0    33.50
 1.03     4.51    34.53     0.00    14.50    11.05    15.56   119.17
MACE  CC   0222   000000 00                  1287.    2822.     25.0    25.02
 1.03    73.53    26.05     0.00    13.90    17.89    91.42    32.39
MACE  CC   0224   000000 00                   224.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     3.11     3.11     0.00
MACW  CC   0222   000000 00                  2689.    2474.     10.5    24.80
 1.03    63.89    25.83     0.00    13.90    37.38   101.27    40.94
MACS  CC   0222   000000 00                   142.     169.     13.6    27.83
 1.03     4.86    28.86     0.00    13.90     1.97     6.84    40.57
WUMSWICC   1322   000000 00                   307.     577.     21.5    25.97
 1.03    15.59    27.00     0.00    13.90     4.27    19.85    34.39
MANO  CC   0413   000000 00                    20.       3.      2.0    33.60
 1.03     0.12    34.63     0.00    13.90     0.28     0.40   115.76
MANO  CC   0422   000000 00                  3078.    2151.      8.0    22.80
 1.03    51.25    23.83     0.00    13.90    42.78    94.03    43.72
MANOMOCC   0522   000000 00                   260.     134.      5.9    22.70
 1.03     3.18    23.73     0.00    13.90     3.61     6.79    50.72
MAPP  CC   0422   000000 00                   537.     397.      8.4    20.79
 1.03     8.66    21.82     0.00    13.90     7.46    16.12    40.64
MAPP  CC   1113   000000 00                    43.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.85     0.85     0.00
MAPP  CC   1122   000000 00                   451.     292.      7.4    21.73
 1.03     6.65    22.76     0.00    13.90     6.27    12.92    44.22
MAPP  CC   1123   000000 00                    89.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     1.24     1.24     0.00
MAPP  CC   1124   000000 00                   102.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.50     1.48     1.48     0.00
MAPPNECC   1422   000000 00                   118.      87.      8.4    20.79
 1.03     1.90    21.82     0.00    13.90     1.64     3.54    40.64
UPNY  CC   0123   000000 00                    73.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     1.01     1.01     0.00
DSNY  CC   0122   000000 00                  1830.   13739.     85.7    24.72
 1.03   353.73    25.75     0.00    13.90    25.44   379.17    27.60
DSNY  CC   0123   000000 00                   101.      23.      2.6    37.31
 1.03     0.87    38.34     0.00    13.90     1.40     2.27   100.47
NYC   CC   0122   000000 00                   490.    2910.     67.8    28.96
 1.03    87.29    29.99     0.00    13.90     6.81    94.11    32.33
NYC   CC   0123   000000 00                    78.      31.      4.5    40.16
 1.03     1.27    41.19     0.00    13.90     1.08     2.35    76.37
LILC  CC   0113   000000 00                    22.      72.     37.1    36.61
 1.03     2.69    37.64     0.00    14.90     0.33     3.02    42.23
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LILC CC 0122 000000 00 | 136. | 808. | 67.8 | 26.53 | 1.03 | 22.26 | 27.56 | 0.00 | 13.90 | 1.89 | 24.15 | 29.90 |
| NENG CC 0113 000000 00 | 96. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.30 | 1.37 | 1.37 | 0.00 |
| NENG CC 0122 000000 00 | 5859. | 23821. | 46.4 | 25.39 | 1.03 | 629.34 | 26.42 | 0.00 | 14.00 | 82.03 | 711.37 | 29.86 |
| NENG CC 0123 000000 00 | 1003. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.20 | 14.24 | 14.24 | 0.00 |
| NENG CC 0912 000000 00 | 33. | 261. | 90.4 | 25.00 | 1.03 | 6.80 | 26.03 | 0.00 | 13.90 | 0.46 | 7.26 | 27.79 |
| NENG CC 0922 000000 00 | 1351. | 10699. | 90.4 | 25.00 | 1.03 | 278.55 | 26.03 | 0.00 | 13.90 | 18.78 | 297.33 | 27.79 |
| NENGCTCC 3222 000000 00 | 1684. | 13084. | 88.7 | 25.35 | 1.03 | 345.20 | 26.38 | 0.00 | 13.90 | 23.41 | 368.60 | 28.17 |
| NENGNHCC 3022 000000 00 | 1245. | 9860. | 90.4 | 25.00 | 1.03 | 256.69 | 26.03 | 0.00 | 13.90 | 17.31 | 274.00 | 27.79 |
| FRCCFLCC 1512 000000 00 | 85. | 63. | 8.4 | 25.55 | 1.03 | 1.67 | 26.58 | 0.00 | 19.90 | 1.69 | 3.36 | 53.52 |
| FRCCFLCC 1513 000000 00 | 89. | 46. | 5.9 | 32.86 | 1.03 | 1.55 | 33.89 | 0.00 | 14.50 | 1.29 | 2.84 | 62.05 |
| FRCCFLCC 1522 000000 00 | 15348. | 60868. | 45.3 | 25.27 | 1.03 | 1600.89 | 26.30 | 0.00 | 14.10 | 216.41 | 1817.29 | 29.86 |
| FRCCFLCC 1523 000000 00 | 789. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.40 | 11.36 | 11.36 | 0.00 |
| FRCCFLCC 1524 000000 00 | 34. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.90 | 0.47 | 0.47 | 0.00 |
| VACA CC 0622 000000 00 | 450. | 332. | 8.4 | 24.74 | 1.03 | 8.57 | 25.77 | 0.00 | 13.90 | 6.25 | 14.82 | 44.59 |
| VACANCCC 0613 000000 00 | 84. | 14. | 2.0 | 36.04 | 1.03 | 0.53 | 37.07 | 0.00 | 19.90 | 1.67 | 2.21 | 153.22 |
| VACANCCC 0622 000000 00 | 940. | 694. | 8.4 | 24.74 | 1.03 | 17.90 | 25.77 | 0.00 | 13.90 | 13.07 | 30.96 | 44.59 |
| VACANCCC 0623 000000 00 | 68. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.90 | 1.01 | 1.01 | 0.00 |
| VACANCCC 0624 000000 00 | 161. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.90 | 2.40 | 2.40 | 0.00 |
| VACAVACC 0322 000000 00 | 2336. | 1203. | 5.9 | 26.22 | 1.03 | 32.78 | 27.25 | 0.00 | 13.90 | 32.47 | 65.25 | 54.25 |
| VACAVACC 0323 000000 00 | 594. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.90 | 8.26 | 8.26 | 0.00 |
| TVA CC 0622 000000 00 | 79. | 94. | 13.6 | 22.49 | 1.03 | 2.21 | 23.52 | 0.00 | 13.90 | 1.10 | 3.30 | 35.23 |
| TVA MSCC 1622 000000 00 | 2500. | 3935. | 18.0 | 22.49 | 1.03 | 92.55 | 23.52 | 0.00 | 13.90 | 34.75 | 127.30 | 32.35 |
| SOU CC 0612 000000 00 | 27. | 160. | 67.8 | 22.30 | 1.03 | 3.74 | 23.33 | 0.00 | 13.90 | 0.38 | 4.12 | 25.67 |
| SOU CC 0613 000000 00 | 43. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 0.86 | 0.86 | 0.00 |

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SOU   CC   0622   000000 00                10500.   26537.     28.9    22.35
 1.03   620.36    23.38     0.00    13.90   145.95   766.31    28.88
SOU FLCC   1522   000000 00                 500.    2970.     67.8    22.30
 1.03    69.29    23.33     0.00    13.90     6.95    76.24    25.67
SOU MSCC   1622   000000 00                1000.    5940.     67.8    22.30
 1.03   138.58    23.33     0.00    13.90    13.90   152.48    25.67
ENTG  CC   1022   000000 00                6669.   11736.     20.1    22.34
 1.03   274.31    23.37     0.00    13.90    92.70   367.01    31.27
ENTG  CC   1023   000000 00                 203.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.90     4.04     4.04     0.00
ENTGMSCC   1622   000000 00                3835.    5931.     17.7    22.34
 1.03   138.63    23.37     0.00    13.90    53.31   191.94    32.36
ENTGMOCC   0522   000000 00                 225.      39.      2.0    22.34
 1.03     0.90    23.37     0.00    13.90     3.13     4.03   104.50
ENTGTXCC   2322   000000 00                 911.     156.      2.0    22.34
 1.03     3.65    23.37     0.00    13.90    12.66    16.31   104.50
SPPNMOCC   0522   000000 00                1437.     740.      5.9    20.77
 1.03    16.13    21.80     0.00    13.90    19.97    36.11    48.80
SPPS  CC   1022   000000 00                 912.    7223.     90.4    20.93
 1.03   158.63    21.96     0.00    13.90    12.68   171.31    23.72
SPPS  CC   3613   000000 00                  40.      21.      5.9    29.29
 1.03     0.62    30.32     0.00    14.40     0.58     1.20    58.29
SPPS  CC   3622   000000 00                6283.   15214.     27.6    21.17
 1.03   337.70    22.20     0.00    14.00    87.96   425.66    27.98
SPPS  CC   3623   000000 00                 219.     113.      5.9    27.73
 1.03     3.24    28.76     0.00    19.90     4.36     7.60    67.41
SPPS  CC   3624   000000 00                  39.       7.      2.0    39.61
 1.03     0.27    40.64     0.00    13.90     0.54     0.81   121.78
SPPSMSCC   1613   000000 00                  50.      26.      5.9    28.29
 1.03     0.75    29.32     0.00    19.80     0.99     1.74    67.78
SPPSTXCC   2322   000000 00                 745.    4804.     73.6    20.93
 1.03   105.47    21.96     0.00    13.90    10.36   115.83    24.11
SPPSTXCC   2722   000000 00                1140.    9028.     90.4    20.93
 1.03   198.29    21.96     0.00    13.90    15.85   214.14    23.72
SPPSTXCC   3522   000000 00                 551.    3746.     77.6    20.92
 1.03    82.24    21.95     0.00    13.90     7.66    89.90    24.00
CALI  CC   0812   000000 00                  40.     238.     67.8    27.55
 1.03     6.79    28.58     0.00    14.90     0.60     7.39    31.09
CALI  CC   0813   000000 00                  65.      11.      2.0    35.22
 1.03     0.40    36.25     0.00    14.40     0.94     1.34   120.30
CALI  CC   0822   000000 00                5856.   46377.     90.4    23.58
 1.03  1141.41    24.61     0.00    13.90    81.40  1222.81    26.37
CALI  CC   0823   000000 00                 513.     203.      4.5    32.16
 1.03     6.73    33.19     0.00    14.40     7.39    14.11    69.64
CALI  CC   0824   000000 00                 272.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.90     4.05     4.05     0.00
PNW   CC   0722   000000 00                1512.   11974.     90.4    19.94
 1.03   251.07    20.97     0.00    13.90    21.02   272.08    22.72
PNW   CC   0723   000000 00                   0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     0.00     0.00     0.00
PNW   CC   0822   000000 00                1533.   12141.     90.4    20.55
 1.03   261.98    21.58     0.00    13.90    21.31   283.28    23.33
PNW   CC   0823   000000 00                   0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.90     0.00     0.00     0.00
AZNM  CC   0812   000000 00                  19.      10.      5.9    22.20
 1.03     0.23    23.23     0.00    13.90     0.26     0.49    50.22
AZNM  CC   0813   000000 00                  16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.90     0.32     0.32     0.00
AZNM  CC   0822   000000 00                8832.   52028.     67.2    21.17
 1.03  1154.91    22.20     0.00    13.90   122.76  1277.68    24.56
AZNM  CC   0823   000000 00                 510.     251.      5.6    27.60
 1.03     7.19    28.63     0.00    14.50     7.39    14.58    58.09
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AZNM CC 0824 000000 00 | 351. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.90 | 5.23 | 5.23 | 0.00 |
| AZNMTXCC 3523 000000 00 | 232. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 4.62 | 4.62 | 0.00 |
| RMPA CC 0822 000000 00 | 1281. | 609. | 5.4 | 20.35 | 1.03 | 13.02 | 21.38 | 0.00 | 13.90 | 17.81 | 30.83 | 50.61 |
| RMPA CC 0823 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.90 | 0.00 | 0.00 | 0.00 |
| NWPE CC 0722 000000 00 | 240. | 41. | 2.0 | 16.66 | 1.03 | 0.73 | 17.69 | 0.00 | 13.90 | 3.34 | 4.06 | 98.83 |
| NENG CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCC 32 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCC 32 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCC 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCC 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMS | CC | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | CC | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | CC | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | CC | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | CC | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | CC | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | CC | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOCC | | 5 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOCC | | 5 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | CC | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | CC | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | CC | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | CC | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOCC | | 5 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOCC | | 5 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTXCC | | 19 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTXCC | | 19 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | CC | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | CC | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | CC | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | CC | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| AZNM | CC | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| AZNM | CC | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| PNW | CC | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| PNW | CC | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | CC | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | CC | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | CC | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | CC | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | CC | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | CC | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACE CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC CC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC CC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCC 6 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCC 6 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCC 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCC 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Comb.Cycle Gas                  9          133549.  496348.     42.4    22.82
 1.03 11836.14    23.85     0.00    14.04  1875.21 13711.35    27.62

ECAO  IGCC 0441142050710 00                  262.    2013.     87.7     7.34
 1.00    16.80     8.34     0.00    31.40     8.23    25.02    12.43
FRCCFLIGCC 1541122050710 00                  250.    1921.     87.7     9.59
 1.00    20.33    10.59     0.00    31.40     7.85    28.18    14.67
NWPE  IGCC 0831402050710 00                  100.     768.     87.7     6.08
 1.00     5.44     7.08     0.00    31.40     3.14     8.58    11.16
NENG  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTIGCC 32    (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTIGCC 32    (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 8     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOIGCC 5     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOIGCC 5     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 8     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MANO IGCC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOIGCC 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOIGCC 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS IGCC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS IGCC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN IGCC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN IGCC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOIGCC 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOIGCC 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXIGCC 19 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXIGCC 19 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA IGCC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA IGCC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE IGCC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE IGCC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM IGCC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM IGCC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW IGCC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW IGCC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO IGCC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO IGCC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS IGCC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS IGCC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE IGCC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACE  IGCC 1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  IGCC 1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  IGCC 1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  IGCC 1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  IGCC 1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  IGCC 8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  IGCC 8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  IGCC 1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  IGCC 1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCIGCC 6     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCIGCC 6     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  IGCC 8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  IGCC 8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOIGCC 5     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOIGCC 5     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
IGCC                            10              612.    4702.     87.7     8.05
 1.00    42.57     9.05     0.00    31.40    19.22    61.78    13.14

MECS  CT   0411   000000 00                       9.       2.      2.0    28.12
 1.03     0.05    29.15     0.00    11.20     0.10     0.15    94.18
MECS  CT   0412   000000 00                     152.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     4.00     0.61     0.61     0.00
MECS  CT   0413   000000 00                     114.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.28     1.28     0.00
MECS  CT   0414   000000 00                     838.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.80     9.05     9.05     0.00
MECS  CT   0422   000000 00                    2392.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     6.70     6.70     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MECS CT 0424 000000 00 | 272. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.30 | 2.80 | 2.80 | 0.00 |
| ECAO CT 0213 000000 00 | 18. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.20 | 0.20 | 0.00 |
| ECAO CT 0214 000000 00 | 48. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.54 | 0.54 | 0.00 |
| ECAO CT 0222 000000 00 | 892. | 89. | 1.1 | 34.12 | 1.03 | 3.13 | 35.15 | 0.00 | 2.80 | 2.50 | 5.63 | 63.18 |
| ECAO CT 0412 000000 00 | 165. | 28. | 2.0 | 33.81 | 1.03 | 0.99 | 34.84 | 0.00 | 3.50 | 0.58 | 1.57 | 55.16 |
| ECAO CT 0413 000000 00 | 136. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 1.52 | 1.52 | 0.00 |
| ECAO CT 0414 000000 00 | 937. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.80 | 10.12 | 10.12 | 0.00 |
| ECAO CT 0422 000000 00 | 9144. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 26.52 | 26.52 | 0.00 |
| ECAO CT 0423 000000 00 | 285. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.40 | 0.97 | 0.97 | 0.00 |
| ECAO CT 0424 000000 00 | 1010. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.20 | 3.23 | 3.23 | 0.00 |
| ECAO CT 0612 000000 00 | 6. | 1. | 2.0 | 32.42 | 1.03 | 0.03 | 33.45 | 0.00 | 11.20 | 0.07 | 0.10 | 98.48 |
| ECAO CT 0614 000000 00 | 140. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 1.57 | 1.57 | 0.00 |
| ECAO CT 0622 000000 00 | 4215. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 11.80 | 11.80 | 0.00 |
| ECAO CT 0623 000000 00 | 285. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.60 | 1.03 | 1.03 | 0.00 |
| ECAO CT 0624 000000 00 | 26. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.29 | 0.29 | 0.00 |
| ECAOVACT 0322 000000 00 | 250. | 43. | 2.0 | 34.12 | 1.03 | 1.51 | 35.15 | 0.00 | 2.80 | 0.70 | 2.21 | 51.41 |
| ERCTTXCT 1814 000000 00 | 153. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 1.71 | 1.71 | 0.00 |
| ERCTTXCT 1922 000000 00 | 980. | 169. | 2.0 | 31.35 | 1.03 | 5.47 | 32.38 | 0.00 | 2.80 | 2.74 | 8.21 | 48.64 |
| ERCTTXCT 1923 000000 00 | 348. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 3.90 | 3.90 | 0.00 |
| ERCTTXCT 1924 000000 00 | 354. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.20 | 2.19 | 2.19 | 0.00 |
| ERCTTXCT 2114 000000 00 | 5. | 1. | 2.0 | 40.88 | 1.03 | 0.04 | 41.91 | 0.00 | 2.80 | 0.01 | 0.05 | 58.17 |
| ERCTTXCT 2122 000000 00 | 85. | 64. | 8.5 | 31.19 | 1.03 | 2.05 | 32.22 | 0.00 | 2.80 | 0.24 | 2.29 | 35.96 |
| ERCTTXCT 2214 000000 00 | 56. | 10. | 2.0 | 40.88 | 1.03 | 0.40 | 41.91 | 0.00 | 11.20 | 0.63 | 1.03 | 106.93 |
| ERCTTXCT 2312 000000 00 | 7. | 5. | 8.5 | 29.42 | 1.03 | 0.16 | 30.45 | 0.00 | 2.80 | 0.02 | 0.18 | 34.19 |

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ERCTTXCT   2313   000000 00                    21.       8.      4.6    38.36
 1.03     0.33    39.39     0.00    11.20     0.24     0.57    67.16
ERCTTXCT   2314   000000 00                     4.       1.      2.0    40.88
 1.03     0.03    41.91     0.00    11.20     0.04     0.07   106.93
ERCTTXCT   2322   000000 00                   460.     344.      8.5    32.29
 1.03    11.48    33.32     0.00     2.80     1.29    12.76    37.06
ERCTTXCT   2323   000000 00                   200.      81.      4.6    36.23
 1.03     3.01    37.26     0.00     2.80     0.56     3.57    44.20
ERCTTXCT   2414   000000 00                     7.       3.      4.6    40.49
 1.03     0.12    41.52     0.00    11.20     0.08     0.20    69.29
ERCTTXCT   2512   000000 00                     8.       6.      8.5    30.10
 1.03     0.19    31.13     0.00     3.80     0.03     0.22    36.20
ERCTTXCT   2514   000000 00                    27.       5.      2.2    40.80
 1.03     0.22    41.83     0.00    11.20     0.30     0.52    98.99
ERCTTXCT   2722   000000 00                   275.     206.      8.5    31.19
 1.03     6.64    32.22     0.00     2.80     0.77     7.41    35.96
ERCTTXCT   3514   000000 00                     1.       0.      2.0    40.88
 1.03     0.01    41.91     0.00     2.80     0.00     0.01    58.17
ERCTTXCT   3522   000000 00                   260.     195.      8.5    32.80
 1.03     6.59    33.83     0.00     2.80     0.73     7.31    37.57
ERCTTXCT   3523   000000 00                   502.     202.      4.6    34.95
 1.03     7.28    35.98     0.00     3.10     1.56     8.84    43.66
ERCTTXCT   3524   000000 00                   293.      50.      2.0    41.11
 1.03     2.13    42.14     0.00     3.30     0.97     3.09    61.30
MACE  CT   0113   000000 00                    22.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.25     0.25     0.00
MACE  CT   0114   000000 00                   612.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     6.85     6.85     0.00
MACE  CT   0122   000000 00                  1024.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     3.40     3.48     3.48     0.00
MACE  CT   0123   000000 00                  1635.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     5.40     8.83     8.83     0.00
MACE  CT   0124   000000 00                  1720.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.90    18.75    18.75     0.00
MACE  CT   0212   000000 00                     3.       1.      2.0    31.86
 1.03     0.02    32.89     0.00     2.80     0.01     0.03    49.14
MACE  CT   0213   000000 00                    62.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.69     0.69     0.00
MACE  CT   0214   000000 00                   420.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.10     4.66     4.66     0.00
MACE  CT   0222   000000 00                  1923.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     3.30     6.35     6.35     0.00
MACE  CT   0223   000000 00                   190.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     2.13     2.13     0.00
MACEVACT   0312   000000 00                     4.       1.      2.0    29.47
 1.03     0.02    30.50     0.00     4.10     0.02     0.04    54.30
MACEVACT   0314   000000 00                    12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.13     0.13     0.00
MACEVACT   0323   000000 00                    26.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.29     0.29     0.00
MACW  CT   0213   000000 00                   108.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.21     1.21     0.00
MACW  CT   0214   000000 00                   620.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.10     6.88     6.88     0.00
MACW  CT   0222   000000 00                   671.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     1.88     1.88     0.00
MACW  CT   0223   000000 00                   113.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.27     1.27     0.00
MACW  CT   0224   000000 00                   134.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.38     0.38     0.00
MACS  CT   0211   000000 00                     6.       7.     13.8    30.13
 1.03     0.23    31.16     0.00     2.80     0.02     0.24    33.47
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 28

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACS CT 0212 000000 00 | 45. | 55. | 13.8 | 31.65 | 1.03 | 1.78 | 32.68 | 0.00 | 3.60 | 0.16 | 1.94 | 35.65 |
| MACS CT 0214 000000 00 | 378. | 65. | 2.0 | 45.71 | 1.03 | 3.04 | 46.74 | 0.00 | 11.20 | 4.23 | 7.28 | 111.76 |
| MACS CT 0222 000000 00 | 578. | 293. | 5.8 | 35.87 | 1.03 | 10.81 | 36.90 | 0.00 | 4.10 | 2.37 | 13.18 | 44.99 |
| MACS CT 0223 000000 00 | 208. | 36. | 2.0 | 42.65 | 1.03 | 1.56 | 43.68 | 0.00 | 11.20 | 2.33 | 3.89 | 108.70 |
| MACS CT 0224 000000 00 | 920. | 73. | 0.9 | 45.71 | 1.03 | 3.41 | 46.74 | 0.00 | 4.80 | 4.42 | 7.83 | 107.23 |
| MACSVACT 0322 000000 00 | 169. | 127. | 8.5 | 35.46 | 1.03 | 4.62 | 36.49 | 0.00 | 2.80 | 0.47 | 5.09 | 40.23 |
| WUMS CT 0413 000000 00 | 23. | 4. | 2.0 | 37.85 | 1.03 | 0.15 | 38.88 | 0.00 | 2.80 | 0.06 | 0.22 | 55.14 |
| WUMS CT 0414 000000 00 | 48. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.54 | 0.54 | 0.00 |
| WUMSWICT 1223 000000 00 | 212. | 20. | 1.1 | 39.23 | 1.03 | 0.81 | 40.26 | 0.00 | 2.80 | 0.59 | 1.40 | 69.82 |
| WUMSWICT 1224 000000 00 | 664. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 1.86 | 1.86 | 0.00 |
| WUMSWICT 1312 000000 00 | 18. | 22. | 13.8 | 33.25 | 1.03 | 0.75 | 34.28 | 0.00 | 3.00 | 0.05 | 0.80 | 36.75 |
| WUMSWICT 1313 000000 00 | 61. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.68 | 0.68 | 0.00 |
| WUMSWICT 1314 000000 00 | 187. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.50 | 1.96 | 1.96 | 0.00 |
| WUMSWICT 1322 000000 00 | 1221. | 851. | 8.0 | 33.32 | 1.03 | 29.22 | 34.35 | 0.00 | 2.80 | 3.42 | 32.64 | 38.37 |
| WUMSWICT 1323 000000 00 | 90. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 1.01 | 1.01 | 0.00 |
| WUMSWICT 1324 000000 00 | 630. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.90 | 2.46 | 2.46 | 0.00 |
| MANO CT 0411 000000 00 | 3. | 1. | 2.0 | 27.24 | 1.03 | 0.01 | 28.27 | 0.00 | 11.20 | 0.03 | 0.05 | 93.29 |
| MANO CT 0412 000000 00 | 191. | 33. | 2.0 | 32.23 | 1.03 | 1.09 | 33.26 | 0.00 | 3.50 | 0.67 | 1.76 | 53.58 |
| MANO CT 0413 000000 00 | 55. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.62 | 0.62 | 0.00 |
| MANO CT 0414 000000 00 | 1377. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.00 | 15.15 | 15.15 | 0.00 |
| MANO CT 0422 000000 00 | 9496. | 705. | 0.8 | 33.06 | 1.03 | 24.01 | 34.09 | 0.00 | 2.90 | 27.54 | 51.55 | 73.18 |
| MANO CT 0424 000000 00 | 616. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.60 | 6.53 | 6.53 | 0.00 |
| MANOMOCT 0512 000000 00 | 37. | 6. | 2.0 | 31.20 | 1.03 | 0.21 | 32.23 | 0.00 | 4.00 | 0.15 | 0.35 | 55.45 |
| MANOMOCT 0513 000000 00 | 34. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.90 | 0.17 | 0.17 | 0.00 |

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MANOMOCT   0514   000000 00                    100.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.50     1.05     1.05     0.00
MANOMOCT   0522   000000 00                   1002.     173.      2.0    33.08
 1.03     5.89    34.11     0.00     2.80     2.81     8.69    50.37
MANOMOCT   0523   000000 00                    220.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     4.50     0.99     0.99     0.00
MANOMOCT   0524   000000 00                    124.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     9.70     1.20     1.20     0.00
MAPP  CT   0414   000000 00                     64.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.72     0.72     0.00
MAPP  CT   0712   000000 00                      2.       0.      2.0    30.08
 1.03     0.01    31.11     0.00     2.80     0.01     0.02    47.37
MAPP  CT   0713   000000 00                     64.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.10     0.65     0.65     0.00
MAPP  CT   0714   000000 00                    114.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     9.90     1.13     1.13     0.00
MAPP  CT   0722   000000 00                     30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.08     0.08     0.00
MAPP  CT   0724   000000 00                    371.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     1.04     1.04     0.00
MAPP  CT   1111   000000 00                     64.      11.      2.0    24.87
 1.03     0.29    25.90     0.00     5.70     0.36     0.65    58.99
MAPP  CT   1112   000000 00                    273.      47.      2.0    29.41
 1.03     1.43    30.44     0.00     3.80     1.04     2.47    52.50
MAPP  CT   1113   000000 00                    144.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     4.50     0.65     0.65     0.00
MAPP  CT   1114   000000 00                   1269.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.30    13.07    13.07     0.00
MAPP  CT   1122   000000 00                   1513.     135.      1.0    30.16
 1.03     4.20    31.19     0.00     2.80     4.24     8.44    62.64
MAPP  CT   1123   000000 00                    934.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     4.90     4.58     4.58     0.00
MAPP  CT   1124   000000 00                    353.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.10     3.57     3.57     0.00
MAPPMOCT   0513   000000 00                     42.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.12     0.12     0.00
MAPPMOCT   0523   000000 00                     62.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.69     0.69     0.00
MAPPNECT   1412   000000 00                     49.       8.      2.0    28.88
 1.03     0.25    29.91     0.00     5.00     0.24     0.50    58.94
MAPPNECT   1413   000000 00                     21.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.24     0.24     0.00
MAPPNECT   1414   000000 00                    234.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.50     2.46     2.46     0.00
MAPPNECT   1422   000000 00                    629.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     3.20     2.01     2.01     0.00
MAPPNECT   1423   000000 00                    496.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     5.50     2.73     2.73     0.00
MAPPNECT   1424   000000 00                     82.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.23     0.23     0.00
MAPPWICT   1312   000000 00                     25.       4.      2.0    29.05
 1.03     0.13    30.08     0.00     3.60     0.09     0.22    50.98
MAPPWICT   1313   000000 00                     13.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     3.80     0.05     0.05     0.00
MAPPWICT   1314   000000 00                     83.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.20     0.85     0.85     0.00
MAPPWICT   1322   000000 00                     82.      14.      2.0    30.08
 1.03     0.44    31.11     0.00     2.80     0.23     0.67    47.37
MAPPWICT   1323   000000 00                    484.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     5.42     5.42     0.00
UPNY  CT   0112   000000 00                      8.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.02     0.02     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UPNY CT 0114 000000 00 | 53. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.20 | 0.54 | 0.54 | 0.00 |
| UPNY CT 0122 000000 00 | 43. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.12 | 0.12 | 0.00 |
| DSNY CT 0114 000000 00 | 104. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.90 | 1.13 | 1.13 | 0.00 |
| DSNY CT 0124 000000 00 | 74. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.83 | 0.83 | 0.00 |
| NYC CT 0113 000000 00 | 85. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.95 | 0.95 | 0.00 |
| NYC CT 0114 000000 00 | 1094. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 12.25 | 12.25 | 0.00 |
| NYC CT 0122 000000 00 | 460. | 186. | 4.6 | 39.56 | 1.03 | 7.53 | 40.59 | 0.00 | 2.80 | 1.29 | 8.82 | 47.53 |
| NYC CT 0124 000000 00 | 762. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 8.53 | 8.53 | 0.00 |
| LILC CT 0112 000000 00 | 9. | 55. | 69.2 | 33.79 | 1.03 | 1.90 | 34.82 | 0.00 | 11.20 | 0.10 | 2.00 | 36.67 |
| LILC CT 0114 000000 00 | 332. | 12. | 0.4 | 46.41 | 1.03 | 0.55 | 47.44 | 0.00 | 11.10 | 3.69 | 4.23 | 365.61 |
| LILC CT 0122 000000 00 | 405. | 2456. | 69.2 | 36.85 | 1.03 | 93.04 | 37.88 | 0.00 | 2.80 | 1.13 | 94.18 | 38.35 |
| LILC CT 0123 000000 00 | 902. | 256. | 3.2 | 44.04 | 1.03 | 11.56 | 45.07 | 0.00 | 5.30 | 4.78 | 16.34 | 63.71 |
| LILC CT 0124 000000 00 | 205. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 2.30 | 2.30 | 0.00 |
| NENG CT 0112 000000 00 | 37. | 15. | 4.6 | 32.89 | 1.03 | 0.51 | 33.92 | 0.00 | 4.30 | 0.16 | 0.67 | 44.58 |
| NENG CT 0113 000000 00 | 33. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.37 | 0.37 | 0.00 |
| NENG CT 0114 000000 00 | 234. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.70 | 2.50 | 2.50 | 0.00 |
| NENG CT 0122 000000 00 | 693. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 1.94 | 1.94 | 0.00 |
| NENG CT 0123 000000 00 | 107. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.10 | 0.44 | 0.44 | 0.00 |
| NENG CT 0124 000000 00 | 121. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.40 | 1.26 | 1.26 | 0.00 |
| NENG CT 0912 000000 00 | 1. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.01 | 0.01 | 0.00 |
| NENG CT 0914 000000 00 | 133. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 1.49 | 1.49 | 0.00 |
| NENG CT 0923 000000 00 | 41. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.46 | 0.46 | 0.00 |
| NENG CT 2814 000000 00 | 70. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.78 | 0.78 | 0.00 |
| NENGCTCT 3212 000000 00 | 6. | 2. | 4.6 | 30.97 | 1.03 | 0.08 | 32.00 | 0.00 | 10.60 | 0.06 | 0.14 | 58.28 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENGCTCT | 3213 | 000000 | 00 | | | | 15. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.17 | 0.17 | 0.00 | | | | | | |
| NENGCTCT | 3214 | 000000 | 00 | | | | 199. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.10 | 2.21 | 2.21 | 0.00 | | | | | | |
| NENGCTCT | 3222 | 000000 | 00 | | | | 333. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.93 | 0.93 | 0.00 | | | | | | |
| NENGCTCT | 3223 | 000000 | 00 | | | | 31. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.09 | 0.09 | 0.00 | | | | | | |
| NENGCTCT | 3224 | 000000 | 00 | | | | 418. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 4.10 | 1.71 | 1.71 | 0.00 | | | | | | |
| NENGNHCT | 2914 | 000000 | 00 | | | | 81. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.91 | 0.91 | 0.00 | | | | | | |
| NENGNHCT | 3014 | 000000 | 00 | | | | 12. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.03 | 0.03 | 0.00 | | | | | | |
| FRCCFLCT | 1512 | 000000 | 00 | | | | 68. | 35. | 5.9 | 34.43 | 1.03 | 1.25 | 35.46 |
| 0.00 | 4.60 | 0.31 | 1.56 | 44.35 | | | | | | | | | |
| FRCCFLCT | 1513 | 000000 | 00 | | | | 30. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 11.20 | 0.34 | 0.34 | 0.00 | | | | | | | | | |
| FRCCFLCT | 1514 | 000000 | 00 | | | | 389. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 10.10 | 3.93 | 3.93 | 0.00 | | | | | | | | | |
| FRCCFLCT | 1522 | 000000 | 00 | | | | 5658. | 1590. | 3.2 | 36.37 | 1.03 | 59.47 | 37.40 |
| 0.00 | 3.00 | 16.97 | 76.45 | 48.07 | | | | | | | | | |
| FRCCFLCT | 1523 | 000000 | 00 | | | | 2073. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 5.10 | 10.57 | 10.57 | 0.00 | | | | | | | | | |
| FRCCFLCT | 1524 | 000000 | 00 | | | | 2182. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 5.20 | 11.35 | 11.35 | 0.00 | | | | | | | | | |
| VACA CT | 0612 | 000000 | 00 | | | | 22. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 0.06 | 0.06 | 0.00 | | | | | | | | | |
| VACA CT | 0613 | 000000 | 00 | | | | 60. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 11.20 | 0.67 | 0.67 | 0.00 | | | | | | | | | |
| VACA CT | 0614 | 000000 | 00 | | | | 493. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 11.20 | 5.52 | 5.52 | 0.00 | | | | | | | | | |
| VACA CT | 0622 | 000000 | 00 | | | | 1934. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 5.42 | 5.42 | 0.00 | | | | | | | | | |
| VACA CT | 0623 | 000000 | 00 | | | | 446. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 11.20 | 5.00 | 5.00 | 0.00 | | | | | | | | | |
| VACA CT | 0624 | 000000 | 00 | | | | 581. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 4.10 | 2.38 | 2.38 | 0.00 | | | | | | | | | |
| VACANCCT | 0611 | 000000 | 00 | | | | 1. | 0. | 2.0 | 29.76 | 1.03 | 0.01 | 30.79 |
| 0.00 | 2.80 | 0.00 | 0.01 | 47.05 | | | | | | | | | |
| VACANCCT | 0613 | 000000 | 00 | | | | 26. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 11.20 | 0.29 | 0.29 | 0.00 | | | | | | | | | |
| VACANCCT | 0614 | 000000 | 00 | | | | 222. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 10.90 | 2.42 | 2.42 | 0.00 | | | | | | | | | |
| VACANCCT | 0622 | 000000 | 00 | | | | 3047. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 8.53 | 8.53 | 0.00 | | | | | | | | | |
| VACANCCT | 0623 | 000000 | 00 | | | | 1291. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 3.10 | 4.00 | 4.00 | 0.00 | | | | | | | | | |
| VACANCCT | 0624 | 000000 | 00 | | | | 430. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 11.20 | 4.82 | 4.82 | 0.00 | | | | | | | | | |
| VACAVACT | 0312 | 000000 | 00 | | | | 28. | 5. | 2.0 | 31.51 | 1.03 | 0.16 | 32.54 |
| 0.00 | 2.80 | 0.08 | 0.24 | 48.80 | | | | | | | | | |
| VACAVACT | 0313 | 000000 | 00 | | | | 3. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 0.01 | 0.01 | 0.00 | | | | | | | | | |
| VACAVACT | 0314 | 000000 | 00 | | | | 426. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 10.90 | 4.64 | 4.64 | 0.00 | | | | | | | | | |
| VACAVACT | 0322 | 000000 | 00 | | | | 1647. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 4.61 | 4.61 | 0.00 | | | | | | | | | |
| VACAVACT | 0324 | 000000 | 00 | | | | 387. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 1.08 | 1.08 | 0.00 | | | | | | | | | |
| TVA CT | 0612 | 000000 | 00 | | | | 4. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 0.01 | 0.01 | 0.00 | | | | | | | | | |

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TVA CT 0614 000000 00 | 291. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 3.26 | 3.26 | 0.00 |
| TVA CT 0622 000000 00 | 3741. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.90 | 10.85 | 10.85 | 0.00 |
| TVA CT 0623 000000 00 | 1500. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 16.80 | 16.80 | 0.00 |
| TVA MSCT 1612 000000 00 | 20. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.06 | 0.06 | 0.00 |
| TVA MSCT 1614 000000 00 | 9. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.03 | 0.03 | 0.00 |
| TVA MSCT 1622 000000 00 | 1903. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 5.33 | 5.33 | 0.00 |
| SOU CT 0611 000000 00 | 3. | 2. | 5.9 | 26.81 | 1.03 | 0.04 | 27.84 | 0.00 | 2.80 | 0.01 | 0.05 | 33.25 |
| SOU CT 0613 000000 00 | 3. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.03 | 0.03 | 0.00 |
| SOU CT 0614 000000 00 | 81. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.10 | 0.90 | 0.90 | 0.00 |
| SOU CT 0622 000000 00 | 7042. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 19.72 | 19.72 | 0.00 |
| SOU CT 0623 000000 00 | 2277. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.20 | 9.56 | 9.56 | 0.00 |
| SOU CT 0624 000000 00 | 673. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.30 | 2.22 | 2.22 | 0.00 |
| SOU MSCT 1613 000000 00 | 20. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.22 | 0.22 | 0.00 |
| SOU MSCT 1614 000000 00 | 80. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.90 | 0.90 | 0.00 |
| SOU MSCT 1622 000000 00 | 640. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 1.79 | 1.79 | 0.00 |
| SOU MSCT 1624 000000 00 | 153. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.40 | 0.67 | 0.67 | 0.00 |
| ENTG CT 1012 000000 00 | 66. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.18 | 0.18 | 0.00 |
| ENTG CT 1014 000000 00 | 78. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.87 | 0.87 | 0.00 |
| ENTG CT 1022 000000 00 | 1476. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.00 | 4.43 | 4.43 | 0.00 |
| ENTG CT 1023 000000 00 | 216. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.80 | 1.04 | 1.04 | 0.00 |
| ENTGMSCT 1614 000000 00 | 11. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.12 | 0.12 | 0.00 |
| ENTGMSCT 1622 000000 00 | 613. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 1.72 | 1.72 | 0.00 |
| ENTGMOCT 0513 000000 00 | 45. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.20 | 0.28 | 0.28 | 0.00 |
| ENTGMOCT 0522 000000 00 | 290. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.81 | 0.81 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPN | CT | 1711 | 000000 | 00 | | | | 17. | 9. | 5.9 | 24.98 | 1.03 | 0.23 |
| 26.01 | 0.00 | 3.50 | 0.06 | 0.29 | 32.77 | | | | | | | | |
| SPPN | CT | 1712 | 000000 | 00 | | | | 214. | 37. | 2.0 | 29.81 | 1.03 | 1.14 |
| 30.84 | 0.00 | 4.00 | 0.86 | 1.99 | 54.07 | | | | | | | | |
| SPPN | CT | 1713 | 000000 | 00 | | | | 90. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 4.60 | 0.41 | 0.41 | 0.00 | | | | | | | | |
| SPPN | CT | 1714 | 000000 | 00 | | | | 493. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 10.30 | 5.08 | 5.08 | 0.00 | | | | | | | | |
| SPPN | CT | 1722 | 000000 | 00 | | | | 353. | 61. | 2.0 | 30.71 | 1.03 | 1.93 |
| 31.74 | 0.00 | 3.60 | 1.27 | 3.20 | 52.64 | | | | | | | | |
| SPPN | CT | 1723 | 000000 | 00 | | | | 637. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 10.70 | 6.82 | 6.82 | 0.00 | | | | | | | | |
| SPPN | CT | 1724 | 000000 | 00 | | | | 81. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 2.80 | 0.23 | 0.23 | 0.00 | | | | | | | | |
| SPPNMOCT | | 0511 | 000000 | 00 | | | | 2. | 1. | 5.9 | 25.35 | 1.03 | 0.03 |
| 26.38 | 0.00 | 2.80 | 0.01 | 0.03 | 31.78 | | | | | | | | |
| SPPNMOCT | | 0512 | 000000 | 00 | | | | 103. | 18. | 2.0 | 28.81 | 1.03 | 0.53 |
| 29.84 | 0.00 | 5.00 | 0.52 | 1.04 | 58.87 | | | | | | | | |
| SPPNMOCT | | 0513 | 000000 | 00 | | | | 11. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 2.80 | 0.03 | 0.03 | 0.00 | | | | | | | | |
| SPPNMOCT | | 0514 | 000000 | 00 | | | | 309. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 10.80 | 3.34 | 3.34 | 0.00 | | | | | | | | |
| SPPNMOCT | | 0522 | 000000 | 00 | | | | 1320. | 148. | 1.3 | 30.35 | 1.03 | 4.65 |
| 31.38 | 0.00 | 3.70 | 4.88 | 9.54 | 64.32 | | | | | | | | |
| SPPNMOCT | | 0523 | 000000 | 00 | | | | 733. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 4.40 | 3.23 | 3.23 | 0.00 | | | | | | | | |
| SPPNMOCT | | 0524 | 000000 | 00 | | | | 288. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 2.80 | 0.81 | 0.81 | 0.00 | | | | | | | | |
| SPPS | CT | 0812 | 000000 | 00 | | | | 6. | 3. | 5.9 | 29.88 | 1.03 | 0.10 |
| 30.91 | 0.00 | 6.20 | 0.04 | 0.13 | 42.89 | | | | | | | | |
| SPPS | CT | 0814 | 000000 | 00 | | | | 35. | 6. | 2.0 | 39.61 | 1.03 | 0.25 |
| 40.64 | 0.00 | 11.20 | 0.39 | 0.64 | 105.67 | | | | | | | | |
| SPPS | CT | 0823 | 000000 | 00 | | | | 66. | 11. | 2.0 | 35.44 | 1.03 | 0.41 |
| 36.47 | 0.00 | 6.20 | 0.41 | 0.82 | 72.47 | | | | | | | | |
| SPPS | CT | 0824 | 000000 | 00 | | | | 244. | 42. | 2.0 | 39.61 | 1.03 | 1.71 |
| 40.64 | 0.00 | 2.80 | 0.68 | 2.39 | 56.90 | | | | | | | | |
| SPPS | CT | 1012 | 000000 | 00 | | | | 9. | 5. | 5.9 | 29.74 | 1.03 | 0.14 |
| 30.77 | 0.00 | 4.30 | 0.04 | 0.18 | 39.08 | | | | | | | | |
| SPPS | CT | 1014 | 000000 | 00 | | | | 76. | 13. | 2.0 | 39.57 | 1.03 | 0.53 |
| 40.60 | 0.00 | 10.40 | 0.79 | 1.32 | 100.98 | | | | | | | | |
| SPPS | CT | 1022 | 000000 | 00 | | | | 457. | 79. | 2.0 | 30.39 | 1.03 | 2.47 |
| 31.42 | 0.00 | 2.80 | 1.28 | 3.75 | 47.67 | | | | | | | | |
| SPPS | CT | 3612 | 000000 | 00 | | | | 11. | 6. | 5.9 | 29.05 | 1.03 | 0.17 |
| 30.08 | 0.00 | 4.90 | 0.05 | 0.23 | 39.54 | | | | | | | | |
| SPPS | CT | 3614 | 000000 | 00 | | | | 161. | 28. | 2.0 | 39.61 | 1.03 | 1.13 |
| 40.64 | 0.00 | 11.00 | 1.77 | 2.90 | 104.51 | | | | | | | | |
| SPPS | CT | 3622 | 000000 | 00 | | | | 512. | 215. | 4.8 | 30.39 | 1.03 | 6.77 |
| 31.42 | 0.00 | 2.80 | 1.43 | 8.20 | 38.07 | | | | | | | | |
| SPPS | CT | 3623 | 000000 | 00 | | | | 53. | 9. | 2.0 | 38.70 | 1.03 | 0.36 |
| 39.73 | 0.00 | 11.20 | 0.59 | 0.96 | 104.75 | | | | | | | | |
| SPPS | CT | 3624 | 000000 | 00 | | | | 162. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 11.20 | 1.81 | 1.81 | 0.00 | | | | | | | | |
| SPPSMSCT | | 1614 | 000000 | 00 | | | | 15. | 3. | 2.0 | 39.61 | 1.03 | 0.11 |
| 40.64 | 0.00 | 11.20 | 0.17 | 0.27 | 105.67 | | | | | | | | |
| SPPSTXCT | | 2214 | 000000 | 00 | | | | 40. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 11.20 | 0.45 | 0.45 | 0.00 | | | | | | | | |
| SPPSTXCT | | 2322 | 000000 | 00 | | | | 100. | 17. | 2.0 | 30.39 | 1.03 | 0.54 |
| 31.42 | 0.00 | 2.80 | 0.28 | 0.82 | 47.67 | | | | | | | | |
| SPPSTXCT | | 2512 | 000000 | 00 | | | | 3. | 2. | 5.9 | 30.28 | 1.03 | 0.05 |
| 31.31 | 0.00 | 11.20 | 0.03 | 0.08 | 52.95 | | | | | | | | |
| SPPSTXCT | | 2513 | 000000 | 00 | | | | 5. | 1. | 2.0 | 38.09 | 1.03 | 0.03 |
| 39.12 | 0.00 | 11.20 | 0.06 | 0.09 | 104.15 | | | | | | | | |

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3. 31
Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|
| SPPSTXCT 2514 000000 00 | 47. | 8. | 2.0 | 39.61 | 1.03 | 0.33 | 40.64 | 0.00 | 11.20 | 0.53 |
| SPPSTXCT 2524 000000 00 | 48. | 8. | 2.0 | 39.61 | 1.03 | 0.34 | 40.64 | 0.00 | 11.20 | 0.54 |
| SPPSTXCT 2722 000000 00 | 95. | 49. | 5.9 | 30.39 | 1.03 | 1.54 | 31.42 | 0.00 | 2.80 | 0.27 |
| SPPSTXCT 3513 000000 00 | 2. | 0. | 2.0 | 35.06 | 1.03 | 0.01 | 36.09 | 0.00 | 2.80 | 0.01 |
| SPPSTXCT 3514 000000 00 | 43. | 7. | 2.0 | 39.44 | 1.03 | 0.30 | 40.47 | 0.00 | 11.20 | 0.48 |
| CALI CT 0812 000000 00 | 3. | 1. | 2.0 | 36.34 | 1.03 | 0.02 | 37.37 | 0.00 | 4.50 | 0.01 |
| CALI CT 0813 000000 00 | 203. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 4.50 | 0.91 |
| CALI CT 0814 000000 00 | 550. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.10 | 5.55 |
| CALI CT 0821 000000 00 | 48. | 291. | 69.2 | 28.80 | 1.03 | 8.68 | 29.83 | 0.00 | 2.80 | 0.13 |
| CALI CT 0822 000000 00 | 2209. | 380. | 2.0 | 34.76 | 1.03 | 13.62 | 35.79 | 0.00 | 2.80 | 6.19 |
| CALI CT 0823 000000 00 | 927. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.30 | 4.91 |
| CALI CT 0824 000000 00 | 542. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 5.00 | 2.71 |
| PNW CT 0714 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.90 | 0.00 |
| PNW CT 0722 000000 00 | 1151. | 6645. | 65.9 | 27.65 | 1.03 | 190.56 | 28.68 | 0.00 | 2.80 | 3.22 |
| PNW CT 0724 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.00 |
| PNW CT 0812 000000 00 | 3. | 24. | 92.3 | 24.77 | 1.03 | 0.63 | 25.80 | 0.00 | 2.80 | 0.01 |
| PNW CT 0814 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.00 |
| PNW CT 0822 000000 00 | 371. | 3000. | 92.3 | 27.90 | 1.03 | 86.77 | 28.93 | 0.00 | 2.80 | 1.04 |
| AZNM CT 0813 000000 00 | 16. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.18 |
| AZNM CT 0814 000000 00 | 288. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.50 | 3.02 |
| AZNM CT 0822 000000 00 | 1747. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.10 | 5.42 |
| AZNM CT 0823 000000 00 | 752. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 8.42 |
| AZNM CT 0824 000000 00 | 722. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 3.90 | 2.82 |
| AZNMTXCT 3523 000000 00 | 69. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.19 |

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RMPA  CT   0713   000000 00                    68.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     4.50     0.31     0.31     0.00
RMPA  CT   0714   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
RMPA  CT   0722   000000 00                    48.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.13     0.13     0.00
RMPA  CT   0723   000000 00                    42.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.12     0.12     0.00
RMPA  CT   0812   000000 00                    10.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.03     0.03     0.00
RMPA  CT   0814   000000 00                   121.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.36     1.36     0.00
RMPA  CT   0822   000000 00                  1444.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     3.00     4.33     4.33     0.00
RMPA  CT   0823   000000 00                    31.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.35     0.35     0.00
RMPA  CT   0824   000000 00                   235.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     2.63     2.63     0.00
RMPANECT   1412   000000 00                     4.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.04     0.04     0.00
RMPANECT   1414   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.12     0.12     0.00
NWPE  CT   0712   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.00     0.00     0.00
NWPE  CT   0714   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
NWPE  CT   0722   000000 00                   160.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.45     0.45     0.00
NWPE  CT   0811   000000 00                    14.       2.      2.0    20.05
 1.03     0.05    21.08     0.00     2.80     0.04     0.09    37.33
NWPE  CT   0812   000000 00                    53.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.15     0.15     0.00
NWPE  CT   0814   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.80     0.00     0.00     0.00
NWPE  CT   0822   000000 00                   928.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     2.60     2.60     0.00
NWPE  CT   0824   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
NENG  CT   1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  ACT  1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  ACT  1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   32    (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   32    (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTACT  32    (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTACT  32    (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  ACT  1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  ACT  1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 32
Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DSNY CT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY CT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY ACT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY ACT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC CT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC CT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC ACT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC ACT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC CT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC CT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC ACT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC ACT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP ACT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP ACT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCT 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCT 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOACT 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOACT 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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WUMS  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  ACT  1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   8     (a)                              266.      45.      1.9    33.09
 3.91     1.66    37.00    55.48     9.80    17.38    19.05   423.64
WUMS  CT   8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  ACT  8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  ACT  8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  ACT  1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  ACT  8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  ACT  8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   5     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   5     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOACT  5     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOACT  5     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CT   8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CT   8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  ACT  8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  ACT  8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  CT   8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  CT   8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  ACT  8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  ACT  8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOCT   5     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOCT   5     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOACT  5     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPNMOACT 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 19 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 19 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXACT 19 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXACT 19 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

CALI ACT 8 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCC CT 8 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCC CT 8 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCC ACT 8 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCC ACT 8 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCT 6 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCT 6 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3. 34

Total Annual Costs Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCACT 6 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCACT 6 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA ACT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA ACT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCT 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCT 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOACT 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOACT 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ACT 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ACT 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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SOU   ACT  8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   ACT  8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Turbine                          11          130546.   19991.      1.7    31.48
 1.04   650.12    32.52     0.11     4.76   636.66  1286.78    64.37

MECS  BIOMS00  42 000000 00                     161.    1237.     87.7     6.36
 5.36    14.50    11.72     0.00    44.80     7.21    21.71    17.56
ECAO  BIOMS00  42 000000 00                      84.     645.     87.7     6.36
 5.36     7.57    11.72     0.00    44.80     3.76    11.33    17.56
MACE  BIOMS00  44 000000 00                       8.      61.     87.7     5.29
 5.36     0.65    10.65     0.00    44.80     0.36     1.01    16.48
MACW  BIOMS00  44 000000 00                      17.     131.     87.7     6.09
 5.36     1.50    11.45     0.00    44.80     0.76     2.26    17.28
WUMS  BIOMS00  45 000000 00                      12.      92.     87.7     5.29
 5.36     0.98    10.65     0.00    44.80     0.54     1.52    16.48
MANO  BIOMS00  45 000000 00                       1.       8.     87.7     5.29
 5.36     0.08    10.65     0.00    44.80     0.04     0.13    16.48
MAPP  BIOMS00  46 000000 00                     163.    1054.     73.8    10.25
 5.36    16.44    15.61     0.00    44.80     7.30    23.75    22.54
UPNY  BIOMS00  47 000000 00                      18.     138.     87.7     6.09
 5.36     1.58    11.45     0.00    44.80     0.81     2.39    17.28
NENG  BIOMS00  48 000000 00                     309.    1117.     41.3    21.56
 5.36    30.07    26.92     0.00    44.80    13.84    43.91    39.31
FRCC  BIOMS00  49 000000 00                      54.     415.     87.7     6.09
 5.36     4.75    11.45     0.00    44.80     2.42     7.17    17.28
VACA  BIOMS00  50 000000 00                      47.     361.     87.7     6.09
 5.36     4.13    11.45     0.00    44.80     2.11     6.24    17.28
TVA   BIOMS00  50 000000 00                       1.       8.     87.7     6.09
 5.36     0.09    11.45     0.00    44.80     0.04     0.13    17.28
ENTG  BIOMS00  51 000000 00                      10.      77.     87.7     6.09
 5.36     0.88    11.45     0.00    44.80     0.45     1.33    17.28
CALI  BIOMS00  54 000000 00                     432.    3319.     87.7    18.90
 5.36    80.52    24.26     0.00    44.80    19.35    99.87    30.09
PNW   BIOMS00  52 000000 00                       6.      46.     87.7     8.17
 5.36     0.62    13.53     0.00    44.80     0.27     0.89    19.36
AZNM  BIOMS00  53 000000 00                      18.     138.     87.7     8.81
 5.36     1.96    14.17     0.00    44.80     0.81     2.77    20.00
RMPA  BIOMS00  53 000000 00                       1.       7.     78.1     8.81
 5.36     0.10    14.17     0.00    44.80     0.04     0.14    20.72
NWPE  BIOMS00  52 000000 00                       5.      34.     78.1     8.17
 5.36     0.46    13.53     0.00    44.80     0.22     0.69    20.08
NENG  BIOCC0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  BIOCC0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  BIOCC0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   BIOCC0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  BIOCC0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  BIOCC0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  BIOCC0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  BIOCC0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPS BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXBIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU BIOCC0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Biomass 12 | 1347. | 8888. | 75.3 | 13.42 | 5.36 | 166.89 | 18.78 | 0.00 | 44.80 | 60.35 | 227.24 | 25.57 |
| CALI GEO 00 000000 00 | 2665. | 20310. | 87.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 87.40 | 232.92 | 232.92 | 11.47 |
| PNW GEO 00 000000 00 | 8. | 61. | 87.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 87.40 | 0.70 | 0.70 | 11.47 |
| AZNM GEO 00 000000 00 | 29. | 221. | 87.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 87.40 | 2.53 | 2.53 | 11.47 |
| NWPE GEO 00 000000 00 | 241. | 1837. | 87.0 | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00    87.40    21.06    21.06    11.47
RMPA  GEOR 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ10     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ40     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ50     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  GEOA 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  GEOA20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Geothermal                     13            2943.   22429.     87.0     0.00
 0.00     0.00     0.00     0.00    87.40   257.22   257.22    11.47

MECS  LFGAS00     000000 00                      5.      39.     90.0     0.00
10.48     0.41    10.48     0.00    78.60     0.39     0.81    20.45
ECAO  LFGAS00     000000 00                     12.      95.     90.0     0.00
10.48     0.99    10.48     0.00    78.60     0.94     1.93    20.45
ERCT  LFGAS00     000000 00                     67.     528.     90.0     0.00
10.48     5.54    10.48     0.00    78.60     5.27    10.80    20.45
MACE  LFGAS00     000000 00                     24.     189.     90.0     0.00
10.48     1.98    10.48     0.00    78.60     1.89     3.87    20.45
MACW  LFGAS00     000000 00                      1.       8.     90.0     0.00
10.48     0.08    10.48     0.00    78.60     0.08     0.16    20.45
MACS  LFGAS00     000000 00                      4.      32.     90.0     0.00
10.48     0.33    10.48     0.00    78.60     0.31     0.64    20.45
WUMS  LFGAS00     000000 00                     14.     110.     90.0     0.00
10.48     1.16    10.48     0.00    78.60     1.10     2.26    20.45
MANO  LFGAS00     000000 00                     38.     300.     90.0     0.00
10.48     3.14    10.48     0.00    78.60     2.99     6.13    20.45
MAPP  LFGAS00     000000 00                     11.      87.     90.0     0.00
10.48     0.91    10.48     0.00    78.60     0.86     1.77    20.45
UPNY  LFGAS00     000000 00                      6.      47.     90.0     0.00
10.48     0.50    10.48     0.00    78.60     0.47     0.97    20.45
NENG  LFGAS00     000000 00                     18.     142.     90.0     0.00
10.48     1.49    10.48     0.00    78.60     1.41     2.90    20.45
FRCC  LFGAS00     000000 00                      2.      16.     90.0     0.00
10.48     0.17    10.48     0.00    78.60     0.16     0.32    20.45
VACA  LFGAS00     000000 00                     25.     197.     90.0     0.00
10.48     2.07    10.48     0.00    78.60     1.96     4.03    20.45
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TVA LFGAS00 000000 00 | 2. | 16. | 90.0 | 0.00 | 10.48 | 0.17 | 10.48 | 0.00 | 78.60 | 0.16 | 0.32 | 20.45 |
| SOU LFGAS00 000000 00 | 9. | 71. | 90.0 | 0.00 | 10.48 | 0.74 | 10.48 | 0.00 | 78.60 | 0.71 | 1.45 | 20.45 |
| ENTG LFGAS00 000000 00 | 6. | 47. | 90.0 | 0.00 | 10.48 | 0.50 | 10.48 | 0.00 | 78.60 | 0.47 | 0.97 | 20.45 |
| SPPS LFGAS00 000000 00 | 9. | 71. | 90.0 | 0.00 | 10.48 | 0.74 | 10.48 | 0.00 | 78.60 | 0.71 | 1.45 | 20.45 |
| CALI LFGAS00 000000 00 | 216. | 1703. | 90.0 | 0.00 | 10.48 | 17.85 | 10.48 | 0.00 | 78.60 | 16.98 | 34.82 | 20.45 |
| PNW LFGAS00 000000 00 | 21. | 166. | 90.0 | 0.00 | 10.48 | 1.74 | 10.48 | 0.00 | 78.60 | 1.65 | 3.39 | 20.45 |
| AZNM LFGAS00 000000 00 | 11. | 87. | 90.0 | 0.00 | 10.48 | 0.91 | 10.48 | 0.00 | 78.60 | 0.86 | 1.77 | 20.45 |
| RMPA LFGAS00 000000 00 | 1. | 8. | 90.0 | 0.00 | 10.48 | 0.08 | 10.48 | 0.00 | 78.60 | 0.08 | 0.16 | 20.45 |
| NENG LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXLG 19 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS LG 0 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACE  LG   0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  LG   0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  LG   0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  LG   0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  LG   0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   LG   0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  LG   0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   LG   0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Landfill Gas                  14             502.    3958.     90.0     0.00
10.48    41.48    10.48     0.00    78.60    39.46    80.93    20.45

MECS  WIND 00     000000 00                     1.       2.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     0.03     0.03    10.83
ECAO  WIND 00     000000 00                   105.     256.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     2.77     2.77    10.83
ERCT  WIND 00     000000 00                   703.    2288.     37.1     0.00
 0.00     0.00     0.00     0.00    26.40    18.56    18.56     8.11
MACE  WIND 00     000000 00                    14.      31.     25.3     0.00
 0.00     0.00     0.00     0.00    26.40     0.37     0.37    11.91
MACW  WIND 00     000000 00                    10.      27.     30.4     0.00
 0.00     0.00     0.00     0.00    26.40     0.26     0.26     9.93
WUMS  WIND 00     000000 00                    13.      32.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     0.34     0.34    10.83
MANO  WIND 00     000000 00                    52.     137.     30.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.37     1.37    10.05
MAPP  WIND 00     000000 00                   857.    2252.     30.0     0.00
 0.00     0.00     0.00     0.00    26.40    22.62    22.62    10.05
UPNY  WIND 00     000000 00                   194.     136.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     5.12     5.12    37.55
DSNY  WIND 00     000000 00                    64.      45.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.69     1.69    37.55
NYC   WIND 00     000000 00                    59.      41.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.56     1.56    37.55
LILC  WIND 00     000000 00                    36.      25.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     0.95     0.95    37.55
NENG  WIND 00     000000 00                    31.      22.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     0.82     0.82    37.55
VACA  WIND 00     000000 00                    14.      31.     25.3     0.00
 0.00     0.00     0.00     0.00    26.40     0.37     0.37    11.91
TVA   WIND 00     000000 00                     2.       3.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     0.05     0.05    17.01
ENTG  WIND 00     000000 00                    57.      88.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     1.50     1.50    17.01
SPPS  WIND 00     000000 00                    66.     102.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     1.74     1.74    17.01
CALI  WIND 00     000000 00                  1931.    7234.     42.8     0.00
 0.00     0.00     0.00     0.00    26.40    50.98    50.98     7.05
PNW   WIND 00     000000 00                   412.     290.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40    10.88    10.88    37.55
AZNM  WIND 00     000000 00                    49.     159.     37.1     0.00
 0.00     0.00     0.00     0.00    26.40     1.29     1.29     8.11
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RMPA WIND 00 000000 00 | 270. | 1011. | 42.8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 7.13 | 7.13 | 7.05 |
| NWPE WIND 00 000000 00 | 138. | 97. | 8.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 3.64 | 3.64 | 37.55 |
| NENG WIN610 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG WIN620 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG WIN630 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG WIN510 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG WIN520 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG WIN530 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG WIN410 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG WIN420 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG WIN430 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY WIN510 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY WIN520 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY WIN530 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY WIN410 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY WIN420 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY WIN430 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY WIN510 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY WIN520 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY WIN530 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY WIN410 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY WIN420 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY WIN430 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP WIN510 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTX | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTX | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTX | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | WIN610 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | WIN620 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | WIN630 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | WIN610 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | WIN620 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | WIN630 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3. 38
Total Annual Costs
Year: 2005

| | | | Fixed Costs | | | Total Costs | | | Variable Costs | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Capacity | Gener. | C.F. | Fuel | | | | | | | | | |
| | | Total | Capital | FOM | Total | Total | | | VOM | | | | | | | | |
| Unit | Name | | | | [MW] | [GWh] | [%] | mill/kWh | mill/kWh | | | | | | | | |
| | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | | | | | |
| NWPE | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CALI | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN610 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN620 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN630 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3. 39
Total Annual Costs
Year: 2005

| | | | Fixed Costs | | | Total Costs | | | Variable Costs | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | | | | |
| | | | | | | Total | Total | | | | | | | | | | |
| | | | | | | [MW] | [GWh] | [%] | | | | | | | | | |
| Unit | Name | | Capital | FOM | VOM | MMUS$ | MMUS$ | mill/kWh | mill/kWh | Total | MMUS$ | mill/kWh | mill/kWh | US$/kW/a | US$/kW/a | mill/kWh | mill/kWh |
| VACA | WIN410 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | WIN420 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | WIN430 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN610 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN620 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN630 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN510 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN520 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN530 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN410 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN420 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN430 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | WIN410 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | WIN420 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | WIN430 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN610 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN620 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN630 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN510 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN520 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN530 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN410 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN420 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN430 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Wind                            15            5078.   14310.     32.2     0.00
 0.00     0.00     0.00     0.00    26.40   134.06   134.06     9.37

MACE  FCELL00     000000 00                    15.      11.      8.4    24.30
 2.06     0.29    26.36     0.00    15.00     0.23     0.52    46.73
UPNY  FCELL00     000000 00                     1.       0.      1.9    23.06
 2.06     0.00    25.12     0.00    15.00     0.01     0.02   113.53
NENG  FCELL00     000000 00                     1.       1.     13.6    25.01
 2.06     0.03    27.07     0.00    15.00     0.01     0.05    39.67
NENG  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  FC   8     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  FC   8     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOFC   5     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOFC   5     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXFC   19    (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXFC   19    (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RMPA FC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE FC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE FC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM FC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM FC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW FC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW FC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI FC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI FC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO FC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO FC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS FC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS FC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE FC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE FC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW FC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW FC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS FC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS FC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC FC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC FC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA FC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA FC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA FC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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TVA   FC   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  FC   8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  FC   8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   FC   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   FC   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Fuel Cell                      16                  17.      12.      8.3    24.35
 2.06     0.33    26.41     0.00    15.00     0.26     0.58    46.96

ERCT  SOLAR00     000000 00                         1.       0.      5.5     0.00
 0.00     0.00     0.00     0.00    47.00     0.05     0.05    97.62
CALI  SOLAR00     000000 00                       324.     790.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00    15.23    15.23    19.27
AZNM  SOLAR00     000000 00                        61.      29.      5.5     0.00
 0.00     0.00     0.00     0.00    47.00     2.87     2.87    97.62
RMPA  SOLAR00     000000 00                         3.       7.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00     0.14     0.14    19.27
NWPE  SOLAR00     000000 00                        24.      59.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00     1.13     1.13    19.27
NENG  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 41
Total Annual Costs
Year: 2005

| Unit | Name | VOM mill/kWh | Total MMUS$ | Variable Costs Capital US$/kW/a | FOM US$/kW/a | Fixed Costs Capacity Total [MW] MMUS$ | Total Costs Gener. Total [GWh] MMUS$ | C.F. [%] | Fuel mill/kWh | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| NWPE | SLRTH0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| NWPE | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| AZNM | SLRTH0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| AZNM | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| PNW | SLRTH0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| PNW | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| CALI | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| CALI | SLRTH0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| ECAO | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| MECS | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| MACW | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| MACS | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| FRCC | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| VACA | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| TVA | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| ENTG | SLRTH0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| ENTG | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| SOU | SLRPV0 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 |
| Solar | | | | 17 | | 413. | 886. | 24.5 | 0.00 | 0.00 |
| MECS | OTHER00 | 000000 00 | | | | 18. | 142. | 90.0 | 0.00 | 0.00 |
| MANO | OTHER00 | 000000 00 | | | | 21. | 166. | 90.0 | 0.00 | 0.00 |
| SPPS | OTHER00 | 000000 00 | | | | 13. | 102. | 90.0 | 0.00 | |

| Unit | Name | VOM mill/kWh | Total MMUS$ | Capital US$/kW/a | FOM US$/kW/a | Capacity Total [MW] MMUS$ | Gener. Total [GWh] MMUS$ | C.F. [%] | Fuel mill/kWh | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| NWPE | SLRTH0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| NWPE | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| AZNM | SLRTH0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| AZNM | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| PNW | SLRTH0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| PNW | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| CALI | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| CALI | SLRTH0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| ECAO | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MECS | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MACE | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MACW | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| MACS | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| FRCC | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| VACA | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| TVA | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| ENTG | SLRTH0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| ENTG | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| SOU | SLRPV0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | |
| Solar | | 0.00 | 0.00 | 0.00 | 47.00 | 19.41 | 19.41 | 21.91 | | |
| MECS | OTHER00 | 0.00 | 0.00 | 0.00 | 103.60 | 1.86 | 1.86 | 13.14 | | |
| MANO | OTHER00 | 0.00 | 0.00 | 0.00 | 103.60 | 2.18 | 2.18 | 13.14 | | |

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 0.00     0.00     0.00     0.00   103.60     1.35     1.35    13.14
MECS  OTHER00     000000 00                   15.     118.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.55     1.55    13.14
ECAO  OTHER00     000000 00                   90.     710.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     9.32     9.32    13.14
ERCT  OTHER00     000000 00                   10.      79.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.14
MACE  OTHER00     000000 00                  257.    2026.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    26.63    26.63    13.14
MACW  OTHER00     000000 00                  119.     938.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    12.33    12.33    13.14
MACS  OTHER00     000000 00                   55.     434.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     5.70     5.70    13.14
MAPP  OTHER00     000000 00                   34.     268.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.14
UPNY  OTHER00     000000 00                   34.     268.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.14
DSNY  OTHER00     000000 00                   82.     646.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     8.50     8.50    13.14
LILC  OTHER00     000000 00                  137.    1080.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    14.19    14.19    13.14
NENG  OTHER00     000000 00                  537.    4234.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    55.63    55.63    13.14
FRCC  OTHER00     000000 00                  424.    3343.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    43.93    43.93    13.14
VACA  OTHER00     000000 00                  140.    1104.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    14.50    14.50    13.14
TVA   OTHER00     000000 00                   12.      95.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.24     1.24    13.14
ENTG  OTHER00     000000 00                   31.     244.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.21     3.21    13.14
SPPS  OTHER00     000000 00                   10.      79.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.14
CALI  OTHER00     000000 00                  178.    1403.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    18.44    18.44    13.14
PNW   OTHER00     000000 00                   58.     457.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     6.01     6.01    13.14
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Non Fossil_Other               18            2275.   17936.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60   235.69   235.69    13.14

ECAO  WASTE062    000000 00                   60.     473.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     6.22     6.22    13.14
ERCTTXWASTE271    000000 00                    2.      16.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     0.21     0.21    13.14
MANO  WASTE041    000000 00                    2.      16.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     0.21     0.21    13.14
CALI  WASTE081    000000 00                   20.     158.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     2.07     2.07    13.14
NWPE  WASTE072    000000 00                   41.     323.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     4.25     4.25    13.14
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Fossil_Other                   19             125.     985.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    12.95    12.95    13.14

MECS  PUMPS00     000000 00                 1872.     666.      4.1     0.00
 0.00     0.00     0.00     0.00     6.50    12.17    12.17    18.27
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs: Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs: Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAO PUMPS00 000000 00 | 245. | 189. | 8.8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 1.59 | 1.59 | 8.45 |
| MACE PUMPS00 000000 00 | 1280. | 474. | 4.2 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 8.32 | 8.32 | 17.53 |
| MACW PUMPS00 000000 00 | 391. | 301. | 8.8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 2.54 | 2.54 | 8.45 |
| MANO PUMPS00 000000 00 | 350. | 142. | 4.6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 2.27 | 2.27 | 16.01 |
| UPNY PUMPS00 000000 00 | 2620. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 17.03 | 17.03 | 0.00 |
| DSNY PUMPS00 000000 00 | 1040. | 149. | 1.6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 6.76 | 6.76 | 45.49 |
| NENG PUMPS00 000000 00 | 1959. | 186. | 1.1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 12.73 | 12.73 | 68.61 |
| VACA PUMPS00 000000 00 | 4295. | 3226. | 8.6 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 27.92 | 27.92 | 8.65 |
| TVA PUMPS00 000000 00 | 1532. | 385. | 2.9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 9.96 | 9.96 | 25.89 |
| SOU PUMPS00 000000 00 | 1416. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 9.20 | 9.20 | 0.00 |
| SPPN PUMPS00 000000 00 | 155. | 89. | 6.5 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 1.01 | 1.01 | 11.37 |
| SPPS PUMPS00 000000 00 | 288. | 43. | 1.7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 1.87 | 1.87 | 43.57 |
| CALI PUMPS00 000000 00 | 4432. | 115. | 0.3 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 28.81 | 28.81 | 250.04 |
| PNW PUMPS00 000000 00 | 261. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 1.70 | 1.70 | 0.00 |
| AZNM PUMPS00 000000 00 | 185. | 46. | 2.8 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 1.20 | 1.20 | 26.20 |
| RMPA PUMPS00 000000 00 | 533. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 3.46 | 3.46 | 0.00 |
| Pump Storage 20 | 22854. | 6010. | 3.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.50 | 148.55 | 148.55 | 24.72 |
| UPNY NYIMP00 000000 00 | 3000. | 14217. | 54.1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG NHIMP00 000000 00 | 2000. | 9706. | 55.4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP MNIMP00 000000 00 | 2000. | 2. | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW WAIMP00 000000 00 | 2000. | 9408. | 53.7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS MIIMP00 000000 00 | 2000. | 11283. | 64.4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Int. Imports                  21           11000.   44616.     46.3     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  CGCOU0431392050710 01                   55.     302.     62.7    12.30
 1.54     4.18    13.84     0.00    11.70     0.64     4.82    15.97
ECAO  CGCOU0231412050710 01                  127.     330.     29.7    15.19
 1.54     5.53    16.73     0.00    17.40     2.21     7.74    23.42
ECAO  CGCOU0411142050710 01                    1.       7.     83.5    12.86
 1.54     0.11    14.40     0.00    17.40     0.02     0.12    16.78
MACE  CGCOU0141012050710 01                  187.    1146.     69.9    15.47
 1.54    19.49    17.01     0.00    11.70     2.19    21.67    18.92
MACE  CGCOU0211412050710 01                    8.      59.     83.5    13.59
 1.54     0.89    15.13     0.00    17.40     0.14     1.02    17.50
MACW  CGCOU0211412050710 01                   44.     322.     83.5    13.33
 1.54     4.79    14.87     0.00    16.10     0.71     5.49    17.07
MACW  CGCOU0231412050710 01                   82.     600.     83.5    12.24
 1.54     8.27    13.78     0.00    11.70     0.96     9.22    15.38
MACW  CGCOU0232412050710 01                  120.     312.     29.7    16.59
 1.54     5.66    18.13     0.00    15.50     1.86     7.52    24.09
MACW  CGCOU0241412050710 01                  101.     685.     77.4    13.05
 1.54    10.00    14.59     0.00    11.70     1.18    11.18    16.32
WUMSWICGCOU1211162050710 01                   11.      80.     83.5     7.74
 1.54     0.75     9.28     0.00    11.70     0.13     0.88    10.88
WUMSWICGCOU1311162050710 01                    4.      29.     83.5     8.98
 1.54     0.31    10.52     0.00    32.00     0.13     0.44    14.90
MAPP  CGCOU1111262050210 01                   11.      80.     83.5    10.29
 1.54     0.95    11.83     0.00    32.00     0.35     1.30    16.21
MAPP  CGCOU1111262050710 01                    1.       7.     83.5    11.66
 1.54     0.10    13.20     0.00    32.00     0.03     0.13    17.58
UPNY  CGCOU0131022050710 01                   80.     585.     83.5    12.90
 1.54     8.45    14.44     0.00    11.70     0.94     9.38    16.04
NENG  CGCOU0931012050710 01                   76.     556.     83.5    15.82
 1.54     9.65    17.36     0.00    11.70     0.89    10.54    18.96
FRCCFLCGCOU1541132050710 01                  653.    4777.     83.5    15.00
 1.54    79.02    16.54     0.00    12.70     8.29    87.32    18.28
VACA  CGCOU0631102050710 01                   35.     256.     83.5    12.23
 1.54     3.53    13.77     0.00    11.70     0.41     3.94    15.37
VACANCCGCOU0611102050310 01                   65.     475.     83.5    13.58
 1.54     7.19    15.12     0.00    17.40     1.13     8.32    17.50
VACANCCGCOU0611102050710 01                   21.     154.     83.5    14.01
 1.54     2.39    15.55     0.00    28.70     0.60     2.99    19.47
VACANCCGCOU0631102050310 01                  135.     987.     83.5    13.58
 1.54    14.93    15.12     0.00    17.40     2.35    17.28    17.50
VACANCCGCOU0631102050710 01                  161.    1178.     83.5    13.58
 1.54    17.80    15.12     0.00    13.60     2.19    19.99    16.98
VACAVACGCOU0311092050310 01                   49.     358.     83.5    13.93
 1.54     5.55    15.47     0.00    17.40     0.85     6.40    17.85
VACAVACGCOU0331092050710 01                  363.    2655.     83.5    12.72
 1.54    37.86    14.26     0.00    11.70     4.25    42.11    15.86
VACAVACGCOU0341092050710 01                  199.    1093.     62.7    15.98
 1.54    19.14    17.52     0.00    11.70     2.33    21.47    19.65
SOU   CGCOU0611112050710 01                    1.       7.     83.5    13.93
 1.54     0.11    15.47     0.00    14.60     0.01     0.13    17.47
SPPS  CGCOU3641282050710 01                  307.    2246.     83.5     8.26
 1.54    22.00     9.80     0.00    11.70     3.59    25.59    11.40
CALI  CGCOU0811372050710 01                   68.     497.     83.5     8.68
 1.54     5.08    10.22     0.00    15.50     1.05     6.14    12.34
CALI  CGCOU0831372050710 01                  153.    1119.     83.5     8.41
 1.54    11.13     9.95     0.00    11.70     1.79    12.92    11.55
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 43

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CALI CGCOU0832372050710 01 | 69. | 505. | 83.5 | 10.57 | 1.54 | 6.11 | 12.11 | 0.00 | 11.70 | 0.81 | 6.92 | 13.71 |
| NWPE CGCOU0731322050710 01 | 55. | 402. | 83.5 | 5.20 | 1.54 | 2.71 | 6.74 | 0.00 | 11.70 | 0.64 | 3.35 | 8.34 |
| ECAO CGCOS0631041050303 01 | 60. | 439. | 83.5 | 6.94 | 2.94 | 4.34 | 9.88 | 0.00 | 23.10 | 1.39 | 5.72 | 13.04 |
| MACW CGCOS0231412050304 01 | 42. | 307. | 83.5 | 8.72 | 2.94 | 3.58 | 11.66 | 0.00 | 35.60 | 1.50 | 5.08 | 16.53 |
| MACW CGCOS0232412050304 01 | 100. | 678. | 77.4 | 10.66 | 2.94 | 9.23 | 13.60 | 0.00 | 23.10 | 2.31 | 11.54 | 17.01 |
| UPNY CGCOS0131022050304 01 | 44. | 322. | 83.5 | 12.00 | 2.94 | 4.81 | 14.94 | 0.00 | 23.10 | 1.02 | 5.83 | 18.10 |
| NENGCTCGCOS3141012050703 01 | 127. | 932. | 83.5 | 13.77 | 2.94 | 15.58 | 16.71 | 0.00 | 23.10 | 2.94 | 18.53 | 19.87 |
| VACAVACGCOS0331092050304 01 | 78. | 571. | 83.5 | 10.56 | 2.94 | 7.70 | 13.50 | 0.00 | 35.60 | 2.78 | 10.48 | 18.37 |
| MACW CGCOD0231412050307 01 | 87. | 636. | 83.5 | 7.86 | 3.29 | 7.09 | 11.14 | 0.00 | 23.30 | 2.03 | 9.12 | 14.33 |
| UPNY CGCOD0131022050307 01 | 50. | 366. | 83.5 | 9.84 | 3.29 | 4.80 | 13.12 | 0.00 | 23.30 | 1.17 | 5.97 | 16.31 |
| VACANCCGCOD0631102050308 01 | 52. | 380. | 83.5 | 12.16 | 3.29 | 5.87 | 15.45 | 0.00 | 23.30 | 1.21 | 7.09 | 18.63 |
| CALI CGCOD0831372050307 01 | 45. | 329. | 83.5 | 8.83 | 3.84 | 4.17 | 12.67 | 0.00 | 35.80 | 1.61 | 5.78 | 17.57 |
| MAPP CGSDU1131251020210 01 | 65. | 475. | 83.5 | 10.52 | 1.54 | 5.74 | 12.06 | 0.00 | 17.40 | 1.13 | 6.87 | 14.44 |
| Cgn_Coal 22 | 3992. | 27248. | 77.9 | 12.36 | 1.82 | 386.57 | 14.19 | 0.00 | 15.47 | 61.75 | 448.32 | 16.45 |
| MECS CGCT 0412 000000 00 | 5. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.01 | 0.01 | 0.00 |
| ECAO CGCT 0412 000000 00 | 17. | 3. | 2.0 | 29.77 | 1.03 | 0.09 | 30.80 | 0.00 | 2.80 | 0.05 | 0.14 | 47.05 |
| ECAO CGCT 0422 000000 00 | 78. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.22 | 0.22 | 0.00 |
| ECAO CGCT 0612 000000 00 | 7. | 1. | 2.0 | 34.12 | 1.03 | 0.04 | 35.15 | 0.00 | 2.80 | 0.02 | 0.06 | 51.41 |
| ERCTTXCGCT 1912 000000 00 | 17. | 7. | 4.6 | 27.09 | 1.03 | 0.19 | 28.12 | 0.00 | 2.80 | 0.05 | 0.24 | 35.06 |
| ERCTTXCGCT 1922 000000 00 | 2033. | 820. | 4.6 | 29.75 | 1.03 | 25.24 | 30.78 | 0.00 | 2.80 | 5.69 | 30.93 | 37.72 |
| ERCTTXCGCT 2312 000000 00 | 10. | 18. | 20.4 | 27.29 | 1.03 | 0.51 | 28.32 | 0.00 | 2.80 | 0.03 | 0.53 | 29.89 |
| ERCTTXCGCT 2711 000000 00 | 22. | 49. | 25.7 | 24.38 | 1.03 | 1.26 | 25.41 | 0.00 | 2.80 | 0.06 | 1.32 | 26.66 |
| MACE CGCT 0111 000000 00 | 6. | 3. | 5.9 | 27.18 | | | | | | | | |

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 1.03     0.09    28.21     0.00     2.80     0.02     0.10    33.62
MACE  CGCT 0112   000000 00                   13.       2.      2.0    30.82
 1.03     0.07    31.85     0.00     2.80     0.04     0.11    48.11
MACE  CGCT 0122   000000 00                  170.      27.      1.8    34.97
 1.03     0.96    36.00     0.00     2.80     0.48     1.44    53.83
MACE  CGCT 0222   000000 00                   88.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.25     0.25     0.00
MACW  CGCT 0212   000000 00                   33.       6.      2.0    32.36
 1.03     0.19    33.39     0.00     2.80     0.09     0.28    49.65
MACW  CGCT 0222   000000 00                  145.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.41     0.41     0.00
MANO  CGCT 0412   000000 00                    8.       1.      2.0    31.30
 1.03     0.04    32.33     0.00     2.80     0.02     0.07    48.59
MAPP  CGCT 1112   000000 00                   31.       5.      2.0    29.24
 1.03     0.16    30.27     0.00     2.80     0.09     0.25    46.53
UPNY  CGCT 0112   000000 00                   13.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.04     0.04     0.00
UPNY  CGCT 0122   000000 00                  145.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.41     0.41     0.00
NYC   CGCT 0112   000000 00                    2.      12.     69.2    35.36
 1.03     0.44    36.39     0.00     2.80     0.01     0.45    36.85
LILC  CGCT 0111   000000 00                    1.       6.     69.2    29.49
 1.03     0.19    30.52     0.00     2.80     0.00     0.19    30.98
LILC  CGCT 0112   000000 00                   15.      91.     69.2    33.37
 1.03     3.13    34.40     0.00     2.80     0.04     3.17    34.86
NENG  CGCT 0912   000000 00                    7.       3.      4.6    32.90
 1.03     0.10    33.93     0.00     2.80     0.02     0.12    40.87
NENG  CGCT 0922   000000 00                  346.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.97     0.97     0.00
NENGCTCGCT 3112   000000 00                    3.       1.      4.6    31.80
 1.03     0.04    32.83     0.00     2.80     0.01     0.05    39.77
NENGNHCGCT 3012   000000 00                    5.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.01     0.01     0.00
FRCCFLCGCT 1512   000000 00                   27.      14.      5.9    33.22
 1.03     0.48    34.25     0.00     2.80     0.08     0.55    39.66
FRCCFLCGCT 1522   000000 00                  336.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.94     0.94     0.00
VACANCCGCT 0612   000000 00                    2.       0.      2.0    32.03
 1.03     0.01    33.06     0.00     2.80     0.01     0.02    49.31
VACAVACGCT 0311   000000 00                    7.       4.      5.9    27.62
 1.03     0.10    28.65     0.00     2.80     0.02     0.12    34.06
VACAVACGCT 0312   000000 00                   11.       2.      2.0    34.54
 1.03     0.07    35.57     0.00     2.80     0.03     0.10    51.82
TVA   CGCT 0622   000000 00                  308.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.86     0.86     0.00
SOU   CGCT 0612   000000 00                    4.       1.      2.0    29.68
 1.03     0.02    30.71     0.00     8.80     0.04     0.06    81.80
SOU MSCGCT 1622   000000 00                   70.      12.      2.0    29.39
 1.03     0.37    30.42     0.00     2.80     0.20     0.56    46.67
ENTG  CGCT 1012   000000 00                   12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.03     0.03     0.00
ENTG  CGCT 1022   000000 00                  751.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     2.10     2.10     0.00
ENTGTXCGCT 2712   000000 00                    1.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.00     0.00     0.00
ENTGTXCGCT 2722   000000 00                   75.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.21     0.21     0.00
SPPN  CGCT 1712   000000 00                   15.       3.      2.0    30.28
 1.03     0.08    31.31     0.00     2.80     0.04     0.12    47.56
SPPS  CGCT 1012   000000 00                    4.       2.      5.9    29.53
 1.03     0.06    30.56     0.00     2.80     0.01     0.07    35.97
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPS CGCT 3612 000000 00 | 43. | 22. | 5.9 | 26.43 | 1.03 | 0.61 | 27.46 | 0.00 | 2.80 | 0.12 | 0.73 | 32.87 |
| SPPS CGCT 3622 000000 00 | 55. | 28. | 5.9 | 27.42 | 1.03 | 0.81 | 28.45 | 0.00 | 2.80 | 0.15 | 0.96 | 33.86 |
| SPPSTXCGCT 3512 000000 00 | 20. | 10. | 5.9 | 26.51 | 1.03 | 0.29 | 27.54 | 0.00 | 2.80 | 0.06 | 0.34 | 32.95 |
| SPPSTXCGCT 3522 000000 00 | 254. | 131. | 5.9 | 26.55 | 1.03 | 3.63 | 27.58 | 0.00 | 2.80 | 0.71 | 4.34 | 32.99 |
| CALI CGCT 0811 000000 00 | 25. | 181. | 82.4 | 26.78 | 1.03 | 5.02 | 27.81 | 0.00 | 2.80 | 0.07 | 5.09 | 28.19 |
| CALI CGCT 0812 000000 00 | 369. | 2238. | 69.2 | 30.14 | 1.03 | 69.75 | 31.17 | 0.00 | 3.30 | 1.22 | 70.96 | 31.71 |
| CALI CGCT 0821 000000 00 | 162. | 1254. | 88.3 | 26.54 | 1.03 | 34.56 | 27.57 | 0.00 | 2.80 | 0.45 | 35.02 | 27.93 |
| CALI CGCT 0822 000000 00 | 2348. | 5590. | 27.2 | 31.28 | 1.03 | 180.59 | 32.31 | 0.00 | 2.90 | 6.81 | 187.40 | 33.53 |
| AZNM CGCT 0822 000000 00 | 57. | 10. | 2.0 | 27.72 | 1.03 | 0.28 | 28.75 | 0.00 | 2.80 | 0.16 | 0.44 | 45.00 |
| RMPA CGCT 0812 000000 00 | 3. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.01 | 0.01 | 0.00 |
| RMPA CGCT 0821 000000 00 | 36. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.10 | 0.10 | 0.00 |
| RMPA CGCT 0822 000000 00 | 71. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 0.20 | 0.20 | 0.00 |
| MECS CGCC 0413 000000 00 | 57. | 10. | 2.0 | 28.70 | 1.03 | 0.29 | 29.73 | 0.00 | 13.90 | 0.79 | 1.08 | 110.86 |
| MECS CGCC 0421 000000 00 | 738. | 876. | 13.6 | 21.38 | 1.03 | 19.63 | 22.41 | 0.00 | 13.90 | 10.26 | 29.89 | 34.12 |
| MECS CGCC 0422 000000 00 | 724. | 124. | 2.0 | 23.88 | 1.03 | 3.09 | 24.91 | 0.00 | 13.90 | 10.06 | 13.15 | 106.04 |
| MECS CGCC 0423 000000 00 | 977. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.90 | 13.58 | 13.58 | 0.00 |
| ECAO CGCC 0422 000000 00 | 525. | 388. | 8.4 | 23.52 | 1.03 | 9.52 | 24.55 | 0.00 | 13.90 | 7.30 | 16.82 | 43.37 |
| ERCTTXCGCC 1911 000000 00 | 19. | 42. | 25.3 | 15.25 | 1.03 | 0.69 | 16.28 | 0.00 | 13.90 | 0.26 | 0.95 | 22.55 |
| ERCTTXCGCC 1912 000000 00 | 28. | 21. | 8.4 | 20.86 | 1.03 | 0.45 | 21.89 | 0.00 | 13.90 | 0.39 | 0.84 | 40.71 |
| ERCTTXCGCC 1913 000000 00 | 18. | 3. | 2.0 | 26.81 | 1.03 | 0.09 | 27.84 | 0.00 | 14.90 | 0.27 | 0.35 | 114.81 |
| ERCTTXCGCC 1921 000000 00 | 368. | 651. | 20.2 | 17.84 | 1.03 | 12.30 | 18.87 | 0.00 | 14.90 | 5.48 | 17.78 | 27.29 |
| ERCTTXCGCC 1922 000000 00 | 2500. | 5322. | 24.3 | 21.60 | 1.03 | 120.43 | 22.63 | 0.00 | 14.00 | 35.00 | 155.43 | 29.20 |
| ERCTTXCGCC 1923 000000 00 | 110. | 43. | 4.5 | 26.13 | 1.03 | 1.18 | 27.16 | 0.00 | 14.30 | 1.57 | 2.75 | 63.36 |
| ERCTTXCGCC 2313 000000 00 | 3. | 5. | 20.2 | 26.75 | 1.03 | 0.15 | 27.78 | 0.00 | 14.00 | 0.04 | 0.19 | 35.69 |

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ERCTTXCGCC 2322   000000 00                    1513.    6952.     52.5    21.36
 1.03   155.64    22.39     0.00    13.90    21.03   176.67    25.41
ERCTTXCGCC 2323   000000 00                     246.     182.      8.4    29.37
 1.03     5.52    30.40     0.00    13.90     3.42     8.94    49.22
ERCTTXCGCC 2711   000000 00                      81.     641.     90.4    15.46
 1.03    10.58    16.49     0.00    13.90     1.13    11.71    18.25
ERCTTXCGCC 2722   000000 00                     782.    3593.     52.5    22.18
 1.03    83.38    23.21     0.00    13.90    10.87    94.25    26.23
ERCTTXCGCC 3513   000000 00                      77.     136.     20.2    29.59
 1.03     4.17    30.62     0.00    14.90     1.15     5.32    39.03
ERCTTXCGCC 3523   000000 00                     217.     384.     20.2    28.16
 1.03    11.21    29.19     0.00    14.90     3.23    14.45    37.61
MACE  CGCC 0111   000000 00                      21.      96.     52.5    21.54
 1.03     2.18    22.57     0.00    13.90     0.29     2.47    25.59
MACE  CGCC 0112   000000 00                      16.       8.      5.9    26.42
 1.03     0.23    27.45     0.00    13.90     0.22     0.45    54.44
MACE  CGCC 0113   000000 00                      76.      13.      2.0    29.91
 1.03     0.40    30.94     0.00    13.90     1.06     1.46   112.07
MACE  CGCC 0121   000000 00                      41.     188.     52.5    21.61
 1.03     4.26    22.64     0.00    13.90     0.57     4.83    25.67
MACE  CGCC 0122   000000 00                    1517.     886.      6.7    25.76
 1.03    23.73    26.79     0.00    13.90    21.09    44.82    50.59
MACE  CGCC 0123   000000 00                     628.     108.      2.0    30.48
 1.03     3.39    31.51     0.00    14.20     8.92    12.31   114.40
MACE  CGCC 0221   000000 00                     188.    1117.     67.8    18.64
 1.03    21.97    19.67     0.00    13.90     2.61    24.58    22.01
MACE  CGCC 0222   000000 00                     725.    2583.     40.7    24.56
 1.03    66.11    25.59     0.00    13.90    10.08    76.19    29.49
MACW  CGCC 0213   000000 00                      80.      14.      2.0    30.25
 1.03     0.43    31.28     0.00    13.90     1.11     1.54   112.41
MACW  CGCC 0223   000000 00                     206.      35.      2.0    30.22
 1.03     1.10    31.25     0.00    13.90     2.86     3.97   112.38
MACS  CGCC 0223   000000 00                     277.     312.     12.8    32.18
 1.03    10.35    33.21     0.00    13.90     3.85    14.20    45.57
MANO  CGCC 0412   000000 00                       7.       4.      5.9    22.70
 1.03     0.09    23.73     0.00    13.90     0.10     0.18    50.72
MANO  CGCC 0413   000000 00                       1.       0.      2.0    28.28
 1.03     0.01    29.31     0.00    14.90     0.01     0.02   116.28
MANO  CGCC 0422   000000 00                      40.      21.      5.9    22.70
 1.03     0.49    23.73     0.00    13.90     0.56     1.04    50.72
UPNY  CGCC 0112   000000 00                     139.      24.      2.0    26.07
 1.03     0.65    27.10     0.00    13.90     1.93     2.58   108.23
UPNY  CGCC 0113   000000 00                     153.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.00     2.14     2.14     0.00
UPNY  CGCC 0122   000000 00                    1566.      40.      0.3    24.76
 1.03     1.03    25.79     0.00    13.90    21.77    22.80   571.33
UPNY  CGCC 0123   000000 00                     877.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90    12.19    12.19     0.00
DSNY  CGCC 0113   000000 00                      35.      26.      8.4    30.36
 1.03     0.81    31.39     0.00    13.90     0.49     1.30    50.21
DSNY  CGCC 0123   000000 00                     487.     217.      5.1    30.97
 1.03     6.94    32.00     0.00    13.90     6.77    13.71    63.20
NYC   CGCC 0112   000000 00                      15.      89.     67.8    31.80
 1.03     2.93    32.83     0.00    13.90     0.21     3.13    35.17
NYC   CGCC 0113   000000 00                      46.     273.     67.8    33.06
 1.03     9.31    34.09     0.00    14.10     0.65     9.96    36.47
LILC  CGCC 0112   000000 00                      13.      92.     80.6    25.52
 1.03     2.44    26.55     0.00    13.90     0.18     2.62    28.52
LILC  CGCC 0113   000000 00                      61.     362.     67.8    34.26
 1.03    12.79    35.29     0.00    13.90     0.85    13.63    37.63
LILC  CGCC 0122   000000 00                      43.     302.     80.2    25.52
 1.03     8.02    26.55     0.00    13.90     0.60     8.62    28.53
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3. 45
Total Annual Costs
Year: 2005

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | Variable Cos | |
| ts | | | | | | | | Fixed Costs | | | | | Total Costs | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | |
| VOM | | Total | | Capital | | FOM | | | | Total | | | Total | | | | | | |
| Unit | Name | | | | | | | | | [MW] | | [GWh] | | [%] | | mill/kWh | | mil | |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | MMUS$ | | MMUS$ | | mill/kWh | | | | | |
| NENG | CGCC 0113 | 000000 00 | | | | | | | | 13. | | 5. | | 4.5 | | 31.16 | | | |
| 1.03 | | 0.17 | | 32.19 | | 0.00 | | 13.90 | | 0.18 | | 0.35 | | 67.37 | | | | | |
| NENG | CGCC 0122 | 000000 00 | | | | | | | | 661. | | 461. | | 8.0 | | 26.45 | | | |
| 1.03 | | 12.66 | | 27.48 | | 0.00 | | 13.90 | | 9.19 | | 21.85 | | 47.43 | | | | | |
| NENG | CGCC 0123 | 000000 00 | | | | | | | | 132. | | 52. | | 4.5 | | 31.90 | | | |
| 1.03 | | 1.72 | | 32.93 | | 0.00 | | 13.90 | | 1.83 | | 3.55 | | 68.12 | | | | | |
| NENGCTCGCC | 3112 | 000000 00 | | | | | | | | 13. | | 10. | | 8.4 | | 26.81 | | | |
| 1.03 | | 0.27 | | 27.84 | | 0.00 | | 13.90 | | 0.18 | | 0.45 | | 46.66 | | | | | |
| NENGCTCGCC | 3113 | 000000 00 | | | | | | | | 1. | | 0. | | 4.5 | | 31.16 | | | |
| 1.03 | | 0.01 | | 32.19 | | 0.00 | | 14.90 | | 0.01 | | 0.03 | | 69.90 | | | | | |
| NENGCTCGCC | 3122 | 000000 00 | | | | | | | | 32. | | 24. | | 8.4 | | 26.81 | | | |
| 1.13 | | 0.66 | | 27.94 | | 6.60 | | 15.60 | | 0.71 | | 1.37 | | 57.99 | | | | | |
| NENGCTCGCC | 3123 | 000000 00 | | | | | | | | 73. | | 13. | | 2.0 | | 32.20 | | | |
| 1.13 | | 0.42 | | 33.33 | | 6.36 | | 16.50 | | 1.67 | | 2.09 | | 166.76 | | | | | |
| FRCCFLCGCC | 1513 | 000000 00 | | | | | | | | 18. | | 9. | | 5.9 | | 32.43 | | | |
| 1.03 | | 0.31 | | 33.46 | | 0.00 | | 13.90 | | 0.25 | | 0.56 | | 60.46 | | | | | |
| FRCCFLCGCC | 1522 | 000000 00 | | | | | | | | 437. | | 323. | | 8.4 | | 26.46 | | | |
| 1.03 | | 8.87 | | 27.49 | | 0.00 | | 13.90 | | 6.07 | | 14.95 | | 46.31 | | | | | |
| FRCCFLCGCC | 1523 | 000000 00 | | | | | | | | 454. | | 294. | | 7.4 | | 31.74 | | | |
| 1.03 | | 9.63 | | 32.77 | | 0.00 | | 13.90 | | 6.31 | | 15.94 | | 54.25 | | | | | |
| VACA | CGCC 0622 | 000000 00 | | | | | | | | 1000. | | 676. | | 7.7 | | 24.66 | | | |
| 1.03 | | 17.36 | | 25.69 | | 0.00 | | 13.90 | | 13.90 | | 31.26 | | 46.26 | | | | | |
| VACA | CGCC 0623 | 000000 00 | | | | | | | | 111. | | 19. | | 2.0 | | 32.03 | | | |
| 1.03 | | 0.63 | | 33.06 | | 0.00 | | 13.90 | | 1.54 | | 2.17 | | 114.20 | | | | | |
| VACANCCGCC | 0623 | 000000 00 | | | | | | | | 162. | | 28. | | 2.0 | | 32.35 | | | |
| 1.03 | | 0.93 | | 33.38 | | 0.00 | | 13.90 | | 2.25 | | 3.18 | | 114.51 | | | | | |
| VACAVACGCC | 0322 | 000000 00 | | | | | | | | 288. | | 213. | | 8.4 | | 23.67 | | | |
| 1.03 | | 5.25 | | 24.70 | | 0.00 | | 13.90 | | 4.00 | | 9.26 | | 43.51 | | | | | |
| VACAVACGCC | 0323 | 000000 00 | | | | | | | | 91. | | 16. | | 2.0 | | 33.07 | | | |
| 1.03 | | 0.53 | | 34.10 | | 0.00 | | 13.90 | | 1.26 | | 1.80 | | 115.23 | | | | | |
| TVA | CGCC 0622 | 000000 00 | | | | | | | | 1290. | | 953. | | 8.4 | | 22.49 | | | |
| 1.03 | | 22.41 | | 23.52 | | 0.00 | | 13.90 | | 17.93 | | 40.34 | | 42.34 | | | | | |
| SOU | CGCC 0612 | 000000 00 | | | | | | | | 5. | | 3. | | 5.9 | | 26.19 | | | |
| 1.03 | | 0.07 | | 27.22 | | 0.00 | | 13.90 | | 0.07 | | 0.14 | | 54.21 | | | | | |
| SOU | CGCC 0622 | 000000 00 | | | | | | | | 1604. | | 1185. | | 8.4 | | 22.80 | | | |
| 1.03 | | 28.23 | | 23.83 | | 0.00 | | 13.90 | | 22.30 | | 50.53 | | 42.65 | | | | | |
| SOU FLCGCC | 1522 | 000000 00 | | | | | | | | 240. | | 1426. | | 67.8 | | 22.30 | | | |
| 1.03 | | 33.26 | | 23.33 | | 0.00 | | 13.90 | | 3.34 | | 36.59 | | 25.67 | | | | | |
| ENTG | CGCC 1012 | 000000 00 | | | | | | | | 52. | | 9. | | 2.0 | | 22.98 | | | |
| 1.03 | | 0.21 | | 24.01 | | 0.00 | | 13.90 | | 0.72 | | 0.94 | | 105.14 | | | | | |
| ENTG | CGCC 1013 | 000000 00 | | | | | | | | 13. | | 0. | | N/A | | 0.00 | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 14.50 | | 0.19 | | 0.19 | | 0.00 | | | | | |
| ENTG | CGCC 1022 | 000000 00 | | | | | | | | 1891. | | 4763. | | 28.8 | | 22.34 | | | |
| 1.03 | | 111.32 | | 23.37 | | 0.00 | | 13.90 | | 26.28 | | 137.61 | | 28.89 | | | | | |
| ENTGTXCGCC | 1912 | 000000 00 | | | | | | | | 6. | | 0. | | N/A | | 0.00 | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 13.90 | | 0.08 | | 0.08 | | 0.00 | | | | | |
| ENTGTXCGCC | 1921 | 000000 00 | | | | | | | | 440. | | 0. | | N/A | | 0.00 | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 14.90 | | 6.56 | | 6.56 | | 0.00 | | | | | |

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ENTGTXCGCC 1922   000000 00                    353.      32.      1.0    22.34
 1.03     0.75    23.37     0.00    13.90     4.91     5.66   175.41
ENTGTXCGCC 2712   000000 00                     25.       4.      2.0    22.34
 1.03     0.10    23.37     0.00    13.90     0.35     0.45   104.50
ENTGTXCGCC 2722   000000 00                    513.     402.      8.9    22.34
 1.03     9.39    23.37     0.00    13.90     7.13    16.52    41.12
SPPS  CGCC 1022   000000 00                    448.    3060.     78.0    20.92
 1.03    67.17    21.95     0.00    13.90     6.23    73.39    23.99
SPPS  CGCC 3622   000000 00                    450.    3564.     90.4    20.93
 1.03    78.27    21.96     0.00    13.90     6.25    84.53    23.72
SPPS  CGCC 3623   000000 00                    108.      56.      5.9    27.60
 1.03     1.59    28.63     0.00    13.90     1.50     3.09    55.62
CALI  CGCC 0811   000000 00                      1.       8.     90.4    20.63
 1.03     0.17    21.66     0.00    13.90     0.01     0.19    23.41
CALI  CGCC 0812   000000 00                    213.    1687.     90.4    26.06
 1.03    45.71    27.09     0.00    14.20     3.02    48.73    28.89
CALI  CGCC 0813   000000 00                    319.    1895.     67.8    30.23
 1.03    59.23    31.26     0.00    14.50     4.63    63.85    33.70
CALI  CGCC 0822   000000 00                   2938.   23268.     90.4    23.95
 1.03   581.18    24.98     0.00    13.90    40.84   622.02    26.73
CALI  CGCC 0823   000000 00                    840.    4989.     67.8    30.33
 1.03   156.45    31.36     0.00    14.60    12.26   168.71    33.81
PNW   CGCC 0722   000000 00                    165.    1307.     90.4    18.78
 1.03    25.88    19.81     0.00    13.90     2.29    28.18    21.56
PNW   CGCC 0723   000000 00                    123.     974.     90.4    25.57
 1.03    25.91    26.60     0.00    13.90     1.71    27.62    28.35
PNW   CGCC 0812   000000 00                     13.     103.     90.4    20.16
 1.03     2.18    21.19     0.00    13.90     0.18     2.36    22.94
PNW   CGCC 0822   000000 00                    820.    6494.     90.4    19.84
 1.03   135.54    20.87     0.00    13.90    11.40   146.93    22.63
AZNM  CGCC 0812   000000 00                     73.      38.      5.9    23.70
 1.03     0.93    24.73     0.00    13.90     1.01     1.94    51.72
AZNM  CGCC 0813   000000 00                    102.      53.      5.9    26.17
 1.03     1.43    27.20     0.00    13.90     1.42     2.85    54.20
AZNM  CGCC 0822   000000 00                   1190.     613.      5.9    21.33
 1.03    13.70    22.36     0.00    13.90    16.54    30.24    49.35
AZNM  CGCC 0823   000000 00                    113.      58.      5.9    26.51
 1.03     1.60    27.54     0.00    13.90     1.57     3.17    54.53
RMPA  CGCC 0812   000000 00                     55.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     0.76     0.76     0.00
RMPA  CGCC 0813   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.90     0.00     0.00     0.00
RMPA  CGCC 0822   000000 00                    144.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     2.00     2.00     0.00
RMPA  CGCC 0823   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.10     0.00     0.00     0.00
NWPE  CGCC 0811   000000 00                     10.      59.     67.8    16.06
 1.03     1.01    17.09     0.00    13.90     0.14     1.15    19.43
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Cgn_Gas                      23           42570.   95882.     25.7    24.11
 1.03  2410.54    25.14     0.02    11.81   503.59  2914.13    30.39

ERCTTXCGGAU1811   000000 00                      2.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.04     0.04     0.00
MACE  CGGAU0221   000000 00                     55.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.18     1.18     0.00
MANO  CGGAU0411   000000 00                     16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.17     0.17     0.00
FRCCFLCGGAU1511   000000 00                     16.      17.     11.9    28.67
 2.57     0.52    31.24     0.00    11.70     0.19     0.71    42.44
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TVA CGGAU0611 000000 00 | 12. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 0.24 | 0.24 | 0.00 |
| ENTG CGGAU1011 000000 00 | 1. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 0.02 | 0.02 | 0.00 |
| NENG CGHSC2821 000000 00 | 537. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 10.74 | 10.74 | 0.00 |
| CALI CGLSN0821 000000 00 | 430. | 3145. | 83.5 | 23.69 | 3.02 | 84.01 | 26.71 | 0.00 | 21.60 | 9.29 | 93.30 | 29.66 |
| Cgn_Oil 24 | 1069. | 3162. | 33.8 | 23.72 | 3.02 | 84.53 | 26.73 | 0.00 | 20.45 | 21.86 | 106.39 | 33.65 |
| MECS CGBIO00 42 000000 00 | 19. | 146. | 87.7 | 5.89 | 5.36 | 1.64 | 11.25 | 0.00 | 44.80 | 0.85 | 2.49 | 17.08 |
| ECAO CGBIO00 42 000000 00 | 6. | 46. | 87.7 | 5.89 | 5.36 | 0.52 | 11.25 | 0.00 | 44.80 | 0.27 | 0.79 | 17.08 |
| MACW CGBIO00 44 000000 00 | 11. | 85. | 87.7 | 5.28 | 5.36 | 0.90 | 10.64 | 0.00 | 44.80 | 0.49 | 1.39 | 16.47 |
| NENG CGBIO00 48 000000 00 | 72. | 553. | 87.7 | 20.09 | 5.36 | 14.08 | 25.45 | 0.00 | 44.80 | 3.23 | 17.30 | 31.28 |
| FRCC CGBIO00 49 000000 00 | 61. | 469. | 87.7 | 5.64 | 5.36 | 5.15 | 11.00 | 0.00 | 44.80 | 2.73 | 7.89 | 16.83 |
| VACA CGBIO00 50 000000 00 | 34. | 261. | 87.7 | 5.64 | 5.36 | 2.87 | 11.00 | 0.00 | 44.80 | 1.52 | 4.40 | 16.83 |
| SOU CGBIO00 50 000000 00 | 5. | 38. | 87.7 | 5.64 | 5.36 | 0.42 | 11.00 | 0.00 | 44.80 | 0.22 | 0.65 | 16.83 |
| ENTG CGBIO00 51 000000 00 | 8. | 61. | 87.7 | 5.64 | 5.36 | 0.68 | 11.00 | 0.00 | 44.80 | 0.36 | 1.03 | 16.83 |
| SPPS CGBIO00 51 000000 00 | 2. | 15. | 87.7 | 5.64 | 5.36 | 0.17 | 11.00 | 0.00 | 44.80 | 0.09 | 0.26 | 16.83 |
| CALI CGBIO00 54 000000 00 | 74. | 569. | 87.7 | 18.09 | 5.36 | 13.33 | 23.45 | 0.00 | 44.80 | 3.32 | 16.65 | 29.29 |
| PNW CGBIO00 52 000000 00 | 96. | 738. | 87.7 | 8.71 | 5.36 | 10.38 | 14.07 | 0.00 | 44.80 | 4.30 | 14.68 | 19.90 |
| RMPA CGBIO00 53 000000 00 | 7. | 48. | 78.1 | 8.81 | 5.36 | 0.68 | 14.17 | 0.00 | 44.80 | 0.31 | 0.99 | 20.72 |
| ERCTTXCGFWT192 000000 00 | 162. | 285. | 20.1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103.60 | 16.78 | 16.78 | 58.94 |
| ENTG CGFWT102 000000 00 | 170. | 1340. | 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103.60 | 17.61 | 17.61 | 13.14 |
| CALI CGFWT082 000000 00 | 29. | 229. | 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103.60 | 3.00 | 3.00 | 13.14 |
| MECS CGOTH00 000000 00 | 54. | 415. | 87.7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103.60 | 5.59 | 5.59 | 13.48 |
| ERCT CGOTH00 000000 00 | 1. | 8. | 87.7 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103.60 | 0.10 | 0.10 | 13.48 |
| MACW CGOTH00 000000 00 | 25. | 192. | 87.7 | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00   103.60     2.59     2.59    13.48
MACS  CGOTH00     000000 00                    54.     415.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     5.59     5.59    13.48
MAPP  CGOTH00     000000 00                     2.      15.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     0.21     0.21    13.48
UPNY  CGOTH00     000000 00                    44.     338.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     4.56     4.56    13.48
DSNY  CGOTH00     000000 00                     7.      54.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     0.73     0.73    13.48
NENG  CGOTH00     000000 00                    27.     207.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     2.80     2.80    13.48
FRCC  CGOTH00     000000 00                    22.     169.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     2.28     2.28    13.48
VACA  CGOTH00     000000 00                    10.      77.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.48
SPPS  CGOTH00     000000 00                    34.     261.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.48
CALI  CGOTH00     000000 00                    29.     223.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     3.00     3.00    13.48
NWPE  CGOTH00     000000 00                    10.      77.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.48
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Cgn_Other                      25            1075.    7333.     77.9     4.72
 2.21    50.82     6.93     0.00    81.99    88.14   138.96    18.95

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NonCG IPP_Coal                 26               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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NonCG IPP_Gas                  27               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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NonCG IPP_Other                28               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Coal                       29               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Gas                        30               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Oil                        31               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capital Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh
MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
Blr_Other 32 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SteamOnly Cogen 33 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TCOLU0411392050710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TCOLU0431152020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TCOLU0431392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0211412050710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0231082020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0241082050710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0411181050710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0411142050710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431041020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431141020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431142020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431182020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431042050710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0611062020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0631051020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0631202020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATCOLU0331062020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0211412050210 01 CC01 0. 0. N/A 0.00
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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1311162040310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1311162050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANOMOTCOLU0511282050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0711312050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111261040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111271040210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111261040310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111252020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111262050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131272020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131252020210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311161010710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311162020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311162040210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022050110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022020210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022050210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 48

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UPNY TCOLU0131022020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TCOLU0911012050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTCOLU1531132020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TCOLU0631041050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TCOLU0631102050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTCOLU0631102020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTCOLU0631102020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATCOLU0331092050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TCOLU1731281020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TCOLU1731282020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTCOLU0511252050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTCOLU0511272050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTCOLU3531292050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI TCOLU0811372050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI TCOLU0832372050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811351020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811402050110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811342050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811352050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0831331020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TCOLU0811332050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TCOLU0831332050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TCOLN0131022020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTCOLN2931012020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ECAO  TCOLS0231411020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0611182020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLS1111252020203 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411181020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411182020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0611191020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOMDTOLBU0231082020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0232032050110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1312162020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MANO | TOLBU0432192010210 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTOLBU0532281010110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TOLBU1141252020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOTOLBU0512282020110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOTOLBU0532281010110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTOLBU0632101020210 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTOLBU0632102020110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020210 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1732282020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLBU0511281020110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLBU0531281010110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLBU0531281020110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLBU0531282020110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLBU0532281010110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTOLBS0432142020304 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITOLBS1312162030304 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TOLBS0432191010103 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TOLBS0432192010203 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLSU0542281010110 01 | | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TOLSU0812321020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TRRBU0432042020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TRRBS0832342030304 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAO TSABU0441201020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSABC2941011010101 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSABN0241032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABS0241032020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020303 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020303 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPS TSASU3641282020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0832342020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0632061020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0632062020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0641062020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSBBU0441182020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0431042020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441041020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441042020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSBBU0441181010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSBBU1112271020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSBBU1112272040210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSBBU1131262020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSBBU1131262020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSBBU1132271040110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBBU1432282020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBBU1441282010310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPPNETSBBU1442282010310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSBBU0812341020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241042020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0231032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0241032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSBBN0141031010102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBN0641102020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341091020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341092020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341092020202 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOINTSCBU0432181020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSCBU0131032020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEDETSCBU0231032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1131272010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1131252020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1132252020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0131022020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0631102020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0641102020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSCBU1731282010310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSCBU1732281010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSCBU1732282020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSCBU0832342020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSCBU0841342020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEDETSCBN0241032020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

WUMSWITSCSU1341162020510 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSDBN0441042020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2831012020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1331392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1332392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSEBU0442142020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0232032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0241032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBU1141252020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0632232020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020401 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSEBC0641221010101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBN0441142020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBN2842012020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBS0431141010103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBS1142252020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSEBS1541132020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312010110 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312020110 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MANO TSESU0441172010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0511271040310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0511272020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | VOM | Total | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs mill/kWh | Fixed Costs MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | US$/kW/a | US$/kW/a | | | | | | | | | | |
| UPNY TSGBU0141022020210 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020210 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020210 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642101020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642102020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0642222020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSGBU0511271020710 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSGBS1231392020104 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSGBS0412191020703 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSGBS1531132020103 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSGBS1532132020103 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSGBS1541132020103 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSGSU0441201020210 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441042020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441182020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441042020310 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0641041020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0641042020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0641182020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0642181020110 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0642182020210 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

WUMSWITSHBU1332162010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391050710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOINTSKBU0432182020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS TSKBU0411391020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0632102020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0641102020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSKSU1141261010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSLBU0432152020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSLBU0441152020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0231052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0232052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0241052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0411141020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0411141050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0412141020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0432141020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0632182020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACENJTSLBU0112032020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSLBU1341392020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSLBU1112261020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSLBU1412281020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSLBU0531281020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTSLBN2932012020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSLSU0641222020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSLSU0712261020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBS0541272020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AZNM TSUBS0841361020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0441142020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOU TSXBS0642112020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSXBS1641291020203 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSXBS1641292020203 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXBS0841362020303 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXBS0841362020703 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXBS0842362020703 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSXBS0841332020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSXBS0841402020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSXBS0841362020304 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBD0241041020207 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSXBD0141031010107 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSXBD0341092020307 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSXLS2342302030303 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSXLS0732312020304 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSXLS0741311020103 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSXLS0742311010103 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSXLS0742312010304 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSXLS0742312020304 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSXSS2341292020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0841352020203 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0841352020303 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842351020203 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842351020703 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842352020203 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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AZNM  TSXSS0842352020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSXSS0832402020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0742322020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBU0432191010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0432192020204 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0441192020103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBS0441191010103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741282020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBA0441192020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1741282020304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0431192020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0432192010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBS0431142010103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBS1541121020103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0841322020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0842322020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CGCOU0431392050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOU0231412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOU0411142050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0211412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0211412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0231412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0232412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICGCOU1211162050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICGCOU1311162050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGCOU1111262050210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Region | Unit Name | | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | CGCOU1111262050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | CGCOU0131022050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | CGCOU0931012050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | CGCOU1541132050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | CGCOU0631102050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | CGCOU0611102050310 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | CGCOU0611102050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | CGCOU0631102050310 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | CGCOU0631102050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | CGCOU0311092050310 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | CGCOU0331092050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | CGCOU0341092050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | CGCOU0611112050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CGCOU3641282050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CGCOU0811372050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CGCOU0831372050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CGCOU0832372050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | CGCOU0731322050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | CGCOS0631041050303 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | CGCOS0231412050304 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | CGCOS0232412050304 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | CGCOS0131022050304 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | CGCOS3141012050703 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | CGCOS0331092050304 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACW  CGCOD0231412050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSXBA0141022020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSXBA1541122020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSXBA1541132020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSXBA0641101020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSXBA0642101020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSXBA0641222020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSXBA0641222020705 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSASS0732312020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASS0841342020303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBA0341092020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSABA1541132020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBA1541122020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLA0411182020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLA0831402020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSBBS0441041020304 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSS0542282020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBC0641212020201 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSO1332392020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSFBN0131022020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACSMDTSHBO0241081010302 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBO0632102020202 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSJBO0412392020202 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBO0632102020202 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBE0232041020207 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBE0242041020207 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSZBD0241032020707 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TCOLC0141012050301 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TCOLE0411391030308 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TCOLD0431182050307 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATCOLD0331092050308 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSDBD2831012020107 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSGSC0441201020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSIBC0441041020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSVBA0641201010105 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSVBA0441182020105 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSLSC0641222020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSDBA0141011020206 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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SPPNMOTSUBU0541272020110 01     CC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
Rep.Coal-CC                    34                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2221   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2511   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2521   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2711   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0111   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0121   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0211   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0221   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  STGAU0412   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1311   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1321   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0411   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0421   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOSTGAU0511   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  STGAU1111   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  STGAU1112   000000 00     OC01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP STGAU1121 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOSTGAU0511 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNESTGAU1411 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWISTGAU1311 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY STGAU0121 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC STGAU0121 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC STGAU0121 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG STGAU0111 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG STGAU0121 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG STGAU0911 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG STGAU0921 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTSTGAU3221 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLSTGAU1511 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLSTGAU1521 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA STGAU0621 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU STGAU0611 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU STGAU0621 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSSTGAU1621 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG STGAU1011 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG STGAU1021 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSSTGAU1611 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN STGAU1711 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN STGAU1721 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOSTGAU0511 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

SPPNMOSTGAU0521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1011 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1021 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3611 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3621 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSMSSTGAU1611 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2211 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2511 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU3511 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0811 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0811 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STGAU0811 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STGAU0821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE STGAU0822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS STHSU0411 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS STHSU0421 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS STHSU0422 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU1821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU2021 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU2221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU2321 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU2421 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU2521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSU0112 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSU0121 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSU0211 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSU0221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSU0222 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| Unit Name | | | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACW | STHSU0221 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS | STHSU0222 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY | STHSU0121 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC | STHSU0121 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STHSU0122 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STHSU0921 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STHSU0922 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STHSU2821 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STHSU2822 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STHSU3221 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STHSU3222 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNH | STHSU2922 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STHSU1511 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STHSU1521 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STHSU1522 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STHSU0621 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STHSU0622 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STHSU1621 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTX | STHSU2721 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTX | STHSU3421 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STHSU1711 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STHSU1712 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STHSU1721 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STHSU1722 | 000000 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

CALI STHSU0821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSN0121 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSN3221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2212 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2222 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2321 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2322 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2422 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2511 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2512 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2522 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3522 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0121 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0122 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3. 60

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACE STLSU0222 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS STLSU0221 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS STLSU0222 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO STLSU0412 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO STLSU0421 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STLSU0711 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STLSU0721 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STLSU1111 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STLSU1112 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNESTLSU1412 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNESTLSU1421 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNESTLSU1422 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY STLSU0121 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY STLSU0121 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC STLSU0121 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC STLSU0122 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC STLSU0121 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG STLSU0121 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG STLSU0922 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG STLSU2821 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTSTLSU3221 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTSTLSU3222 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLSTLSU1511 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLSTLSU1512 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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FRCCFLSTLSU1521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLSTLSU1522   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0321   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0322   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1622   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1022   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0512   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0822   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1011   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1012   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1022   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3612   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3622   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTLSU1612   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2222   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2522   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU3522   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0822   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   STLSU0721   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AZNM STLSU0812 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM STLSU0821 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM STLSU0822 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNMTXSTLSU2621 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE STLSU0821 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE STLSU0822 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXSTLSC2512 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI STLSC0811 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI STLSC0821 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI STLSN0812 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI STLSN0821 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI STLSN0822 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGGAU1811 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CGGAU0221 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO CGGAU0411 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGGAU1511 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CGGAU0611 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CGGAU1011 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG CGHSC2821 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CGLSN0821 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTHSC1821 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTHSC1921 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI STHSC0821 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI STHSC0822 000000 00 OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ERCTTXSTHSO2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO3521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2022   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STLSO0922   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STGAO0111   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAC0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STHSD2821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Rep.O/G-CC                    35              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  TCOLU0411392050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431152020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431392020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0211412050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0231082020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0411181050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0411142050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431041020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431141020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431142020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431182020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431192020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431042050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0611062020210 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0631051020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0631202020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATCOLU0331062020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0211412050210 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0231031020310 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | |
| MACW | TCOLU0231032020110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MACW | TCOLU0231412050710 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MACW | TCOLU0241412050710 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| WUMS | TCOLU0411392020710 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWIT | COLU1311162040310 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWIT | COLU1311162050710 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWIT | COLU1331392020110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TCOLU0431192020110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TCOLU0442192020110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MANOMOT | COLU0511282050710 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU0711312050710 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU0731311040110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU1111261040110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU1111271040210 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU1111261040310 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU1111252020110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU1111262050710 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU1131261040110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU1131262020110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU1131272020110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU1131252020210 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TCOLU1131262020310 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPPWIT | COLU1311161010710 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |
| MAPPWIT | COLU1311162020110 | | | | | | | | | | | | CG02 | | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | | | | |

MAPPWITCOLU1311162040210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0131022020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TCOLU0911012050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTCOLU1531132020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631041050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATCOLU0331092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731281020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLU0511252050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLU0511272050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTCOLU3531292050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0811372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0832372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811351020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811402050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811342050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811352050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0811332050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLN0131022020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTCOLN2931012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0231411020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0611182020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0631041050303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACW TCOLS0231412050304 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITCOLS1231391020104 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TCOLS1111252020203 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTCOLS0641102050304 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATCOLS0331092050304 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW TABU 0711371030710 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TABS 0631042050304 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSWBS0642202030303 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSWLS0732312030103 02 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSWSS1132261030103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0411181020710 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0411182020710 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0412181020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0412181020710 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0611191020710 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0631191040110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0632051020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0632052020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0632192020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0641052020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOMDTOLBU0231082020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTOLBU0432142020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTOLBU0432142020710 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTOLBU0441142020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MACW TOLBU0231032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0232032050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBU1311161020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBU1312162020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0512282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632101020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1732282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0511281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBS0432142020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBS1312162030304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBS0432191010103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBS0432192010203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TOLSU0812321020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TRRBS0832342030304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACWPATSABU0241032020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0542252020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1142282020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTTSABU3241012020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABU0641102020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSABU0641112020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841341020310 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841342020310 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0832332020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0841332020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0841352020310 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTSABC2941011010101 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEDETSABN0241032020102 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABS0241032020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABS0841341020303 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABS0841341020304 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABS0841342020303 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABS0841342020304 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ERCTTXTSASU2341292020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0841342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112271020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112272040210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| Unit Name | | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSBBU0641102020210 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0632112020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641242020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSBBU0841361020310 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSBBU0841362020210 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSBBU0812341020710 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSBBU0841332020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBN0241042020102 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSBBN0231032020102 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSBBN0241032020102 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACENJTSBBN0141031010102 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPSDTSBLU0742261010110 | 02 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBSU0441392020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0432172010110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020210 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1432282020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPPNETSBSU1432282020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSCBU0131032020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSCBU0231032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1131272010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1131252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1132252020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0131022020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1731282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0832342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSCBN0241032020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSO0441182010102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MANO TSCSU0441202020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1142252020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSCSU1342162020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSDBU0441392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBU0641062020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOVATSDBU0341061020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOWVTSDBU0641051010110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACSMDTSDBU0241081020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBN0441042020102 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSDBN2831012020102 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSDBN2841012020102 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1331392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1332392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPP TSDSU1132252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBC0241072020101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBC0641102020101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBC0641102020401 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSEBC0641221010101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBS0431141010103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBS1142252020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSEBS1541132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UPNY TSFBO0141022020102 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSFBU0431142020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSFBU0432142020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSFBU0432142020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOKYTSFBU0641201020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSFBU0542251010110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSFBU0131022020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSFBU2832012020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSFBU0641112020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSFBU0642112020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSFBU1742282020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSGBU0431392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSGBU0432391050210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSGBU0441392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441141010110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSGBU0241082020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSGBU1231392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSGBU1232392020310 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSGBU0431192020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSGBU0432192020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSGBU0511271040310 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSGBU0511272020710 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSGBU0531272040310 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPP TSGBU1132271010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSGBU0511271020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBS1231392020104 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBS0412191020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACA TSHBU0631102020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBU0641102020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBU0641102020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSHBU0632222020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS TSHSU0432392020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSIBU0432392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSIBU0441392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSIBU0442392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSISU0441171010110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSISU1132262020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSISU1132262020310 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSISU1142262020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSISU1341392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOTSISU0541271010110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSISS1132262020703 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSISS1141262020703 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSJBU0441202020410 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS TSJBU0431392020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS TSJBU0431392020310 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS TSJBU0432392020310 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSJBU0432252020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSJBU0441252020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSJBU0441252020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSJBU0541281010110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MECS TSKBU0412391020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSKBU0411391020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0632102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0432152020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0231052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0232052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0411141020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0411141050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0412141020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0432141020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0632182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSLBU0112032020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSLBU1112261020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSLBU1412281020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSLBU0531281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSLBN2932012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSLSU0712261020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AZNM TSUBS0841362020703 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSUBS0841332020304 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSUBS0842332020203 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSUBS0842332020304 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSVBS0641201020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSVBS0641202020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSVBS0431182020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSVBS0432181020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSVBS0441181010103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSVBS0441182020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBU0641041020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSXBU0441192020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSXBU0841402020110 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSXBS0432392020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSXBS0432392020203 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBS0242412020703 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBS0441142020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBS0641201020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBS0641202020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBS0642201020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS TSXBS0432392020304 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSXBS0441191020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSXBS0441192020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSXBS1142272020103 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

UPNY TSXBS0141022020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841402020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841362020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBD0241041020207 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSXBD0141031010107 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSXBD0341092020307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302030303 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSXSS0832402020104 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | Total | | Capital | | FOM | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | |
| | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MANO | TSYBU0432191010210 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSYBS0432192020204 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSYBS0441192020103 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSYBS0441191010103 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TSYBS1741282020703 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TSYBS1742282020703 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSYBA0441192020105 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TSYSS1741282020304 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSZBU0431192020110 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSZBU0432192010210 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | TSZBN0241031020102 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSZBS0431142010103 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | TSZBS0241032020203 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFL | TSZBS1541121020103 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPEWY | TSZLS0841322020703 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPEWY | TSZLS0842322020104 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | CGCOU0431392050710 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | CGCOU0231412050710 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | CGCOU0411142050710 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | CGCOU0141012050710 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | CGCOU0211412050710 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | CGCOU0211412050710 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | CGCOU0231412050710 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | CGCOU0232412050710 | 01 | | | | | CG02 | | | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

MACW CGCOU0241412050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1211162050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1311162050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOU0131022050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCOU0931012050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CGCOU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0311092050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0331092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCOU0611112050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0811372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0831372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0832372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE CGCOU0731322050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOS0331092050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOD0231412050307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOD0131022050307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOD0631102050308 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CALI CGCOD0831372050307 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CGSDU1131251020210 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASN3642282020102 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBA0641202020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSXBA0141022020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSXBA1541122020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSXBA1541132020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSXBA0641101020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSXBA0642101020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSXBA0641222020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSXBA0641222020705 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSASS0732312020703 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASS0841342020303 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBC0641062020101 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBC0641062020201 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBC0641101020101 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBC0641102020101 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBC0341092020101 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBA0341092020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSABA1541132020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSZBA1541122020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLA0641202020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TCOLA0411182020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSTCOLA1641242020105 01 CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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RMPA  TCOLA0831402020105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSO1332392020102 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSJBO0412392020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBE0232041020207 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBE0242041020207 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TCOLC0141012050301 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLE0411391030308 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Rep.Coal-IGCC                  36               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAO TCOLU0241082050710 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0241082050710 | 01 | ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLU0241412050710 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLU0241412050710 | 01 | ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TCOLU0442192020110 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TCOLU0442192020110 | 01 | ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TCOLU1041292050210 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TCOLU1041292050210 | 01 | LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0641052020110 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0641052020110 | 01 | ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTOLBU0441142020110 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TOLBU1141252020110 | 01 | ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020110 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020110 | 01 | ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 | 01 | ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLSU0542281010110 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLSU0542281010110 | 01 | ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSABU0441391020110 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSABU0441391020110 | 01 | LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 | 01 | ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051010110 | 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051020110 | 01 | LO01 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSABU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSABU0441182020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0541252020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0542252020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     ML02          35.     259.     85.0    18.21
 2.51     5.37    20.72    26.16    36.57     2.18     7.55    29.14
VACANCTSABU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641232020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 73

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MECS TSASU0441392020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSASU0441392020110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941291020310 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941291020310 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941292020310 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941292020310 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU2341292020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU2341292020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSASU0441202020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSASU0441202020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1041292020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1041292020110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1042292020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1042292020110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU1041292020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU1041292020210 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU3641282020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU3641282020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2341292020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2341292020210 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2342292020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2342292020210 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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SPPSTXTSASU3541292020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSBBU0441181010110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOU TSBBU0641242020110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641242020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641242020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSBBU0841361020310 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSBBU0841362020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSBBU0841332020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2241302020110 02 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2241302020410 02 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2242302020410 02 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPSDTSBLU0742261010110 02 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBSU0441392020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBSU0441392020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBSU2341292020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBSU2341292020110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0432172010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0432172010110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020210 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MAPPNETSBSU1441282020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBU0441041020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSCSU1341162020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141251020210 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141252020110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141252020210 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1142252020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSCSU1342162020210 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSDBU0441392020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSDBU0441392020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBU0641062020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBU0641062020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOVATSDBU0341061020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSEBU0442142020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0241032020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBU0442181010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBU0442181010110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBU1141252020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020310 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312010110 02 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312020110 02 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MANO TSESU0441172020310 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641041020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 LO02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 LD02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MECSMITSGBU0441392020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441141010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441141010110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSGBU0241082020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSGBU0241082020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSGBU1141272020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642101020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642101020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642102020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642102020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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TVA   TSGBU0642222020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LD02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MECS TSIBU0442392020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSIBU0442392020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSISU0441171010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSISU0441171010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSISU1142262020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSISU1341392020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOTSISU0541271010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOTSISU0541271010110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSJBU0441051020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSJBU0441051020110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSJBU0441202020410 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSJBU0441202020410 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSJBU0441252020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSJBU0441252020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSJBU0441252020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSJBU0441252020210 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSJBU0541281010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSJBU0541281010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSKBU0441042020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSKBU0441042020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441181010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441181010110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441182020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441182020110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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VACANCTSKBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSXBU0441192020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSXBU0441192020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPNMOTSUBU0541272020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.Scrubber 37 | 35. | 259. | 85.0 | 18.21 | 2.51 | 5.37 | 20.72 | 26.16 | 36.57 | 2.18 | 7.55 | 29.14 |
| NENGNHTSABC2941011010101 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABC0641232020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBC0641061020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBC0641061020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441042020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441042020101 01 ML02 | 280. | 2085. | 85.0 | 9.13 | 2.94 | 25.18 | 12.08 | 23.52 | 36.28 | 16.74 | 41.93 | 20.11 |
| VACANCTSDBC0641101020101 01 LO02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBC0641101020101 01 LD02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSEBC0641042020101 01 LO02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSEBC0641042020101 01 LD02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020201 01 LO01 | 1264. | 9411. | 85.0 | 11.75 | 3.37 | 142.29 | 15.12 | 21.48 | 23.02 | 56.25 | 198.54 | 21.10 |
| MACS TSEBC0241072020201 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBC0441181010101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBC0441181010101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020101 01 ML02 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020401 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBC0641112020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBC0641112020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBC0641112020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBC0641112020101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBC0441041020201 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBC0441041020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     LD02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBC0641102020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3. 80

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSGBC0641102020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSKBC0641232020101 01 LO01 | 722. | 5373. | 85.0 | 9.09 | 3.32 | 66.69 | 12.41 | 19.68 | 34.78 | 39.29 | 105.98 | 19.73 |
| SOU TSKBC0641232020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBC0441181020101 01 LO01 | 677. | 5039. | 85.0 | 8.44 | 3.33 | 59.33 | 11.78 | 21.36 | 35.28 | 38.33 | 97.66 | 19.38 |
| ECAO TSLBC0441181020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBC0441182020101 01 LO01 | 617. | 4593. | 85.0 | 8.59 | 3.35 | 54.83 | 11.94 | 21.60 | 26.09 | 29.41 | 84.25 | 18.34 |
| ECAO TSLBC0441182020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TCOLC0141012050301 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TCOLC0141012050301 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSFSC0441392020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSGSC0441201020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSGSC0441201020101 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSIBC0441041020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSIBC0441041020101 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSLSC0641222020101 01 LO01 | 457. | 3404. | 85.0 | 9.70 | 3.36 | 44.48 | 13.06 | 25.08 | 41.90 | 30.62 | 75.10 | 22.06 |
| TVA TSLSC0641222020101 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBC0641202020201 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBC0641202020201 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ExistSCR & Scrub 38 | 4016. | 29905. | 85.0 | 9.81 | 3.32 | 392.80 | 13.14 | 21.71 | 30.74 | 210.65 | 603.45 | 20.18 |
| MACEDETSABN0241032020102 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBN0241041020102 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBN0241041020102 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBN0241042020102 01 LO01 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBN0641042020102 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capital Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
ECAO TSHBN0441041020102 01 LD01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020102 01 LO01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020102 01 LD01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020302 01 LO01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020302 01 ML01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret.ExistSNCR & Scrub 39 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ECAO TCOLU0241082050710 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLU0442192020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0441142020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 SCR2 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 SCR2 790. 5883. 85.0 11.01 1.92 76.04 12.93 6.36 17.70 19.01 95.05 16.16
ECAO TSABU0441201020110 01 SCR2 480. 3574. 85.0 11.55 2.00 48.40 13.54 11.16 32.60 21.00 69.41 19.42
ECAOOHTSABU0441051010110 01 SCR2 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 SCR2 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 SCR1 0. 0. N/A 0.00
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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0541252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0542252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     SCR2         670.    4989.     85.0    13.40
 1.92    76.44    15.32     6.72    17.80    16.43    92.87    18.62
SOU ALTSABU0641232020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SCR2         650.    2555.     44.9    14.50
 2.41    43.20    16.91     6.84    17.80    16.02    59.21    23.18
ERCTTXTSASU1941292020310 01     SCR1        1210.    4814.     45.4    14.18
 2.41    79.87    16.59     6.96    20.00    32.62   112.49    23.37
ERCTTXTSASU2341292020110 01     SCR1         810.    6032.     85.0    14.40
 2.45   101.65    16.85     8.04    19.80    22.55   124.20    20.59
MANO  TSASU0441202020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total MMUS$ | Variable Costs Total mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPSTXTSASU3541292020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 SCR2 | 1000. | 7446. | 85.0 | 12.14 | 1.93 | 104.79 | 14.07 | 7.44 | 26.80 | 34.24 | 139.03 | 18.67 |
| ECAO TSBBU0241042020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0641062020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSBBU0441182020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441041020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441042020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSBBU0441181010110 01 SCR2 | 301. | 1812. | 68.8 | 11.15 | 1.95 | 23.74 | 13.10 | 7.68 | 28.90 | 10.99 | 34.74 | 19.17 |
| MAPPNETSBBU1441282010310 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBBU1442282010310 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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SOU MSTSBBU1641242020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020110 02     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPSDTSBLU0742261010110 02     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBU0441041020210 01     SCR2         600.    4468.     85.0    12.33
 1.93    63.70    14.26     6.96    17.80    14.86    78.55    17.58
MACW  TSCBU0241032020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSCSU1341162020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141251020210 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141252020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141252020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1142252020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSCSU1342162020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSDBU0441392020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBU0641062020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOVATSDBU0341061020110 01 SCR2 | 925. | 6888. | 85.0 | 11.56 | 1.97 | 93.22 | 13.53 | 9.72 | 32.50 | 39.05 | 132.28 | 19.20 |
| ECAOWVTSDBU0641051010110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACSMDTSDBU0241081020110 01 SCR2 | 1847. | 12765. | 78.9 | 11.67 | 1.90 | 173.16 | 13.56 | 7.68 | 28.90 | 67.56 | 240.72 | 18.86 |
| WUMSWITSDBU1241162020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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VACANCTSDBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     SCR1          821.    6114.     85.0    15.92
 2.49   112.54    18.41     8.88    29.80    31.76   144.30    23.60
VACASCTSEBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SCR2          431.    3209.     85.0    11.85
 1.94    44.27    13.79     7.80    21.80    12.76    57.03    17.77
ECAO  TSESU0441172020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     SCR2          747.    5566.     85.0    15.66
 1.91    97.79    17.57     6.24    17.70    17.89   115.68    20.79
SOU   TSESU0641112020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     SCR2          500.    3723.     85.0    10.50
 1.93    46.29    12.43     7.44    32.40    19.92    66.21    17.78
ECAOKYTSFBU0641201020210 01     SCR2          983.    6131.     71.2    12.52
 1.93    88.65    14.46     7.44    17.80    24.81   113.46    18.50
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Total Annual Costs
Year: 2005

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ECAO  TSHBU0441042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     SCR1        1700.   12659.     85.0     9.87
 1.91   149.18    11.78     6.24    29.50    60.76   209.94    16.58
MANOILTSHBU0441192020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSISU0441171010110 01     SCR2         469.    3492.     85.0    11.90
 1.94    48.33    13.84     7.68    26.80    16.17    64.50    18.47
MAPP  TSISU1142262020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSISU1341392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISU0541271010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441051020110 01     SCR2         575.    4282.     85.0    10.70
 1.93    54.06    12.63     7.08    26.80    19.48    73.54    17.18
ECAO  TSJBU0441202020410 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISS1141262020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISS0541272020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBS0541272020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841361020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0841332020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0842332020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0842332020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBS0641201020103 01     SCR2          633.    4714.     85.0     8.39
 3.36    55.35    11.74     8.76    43.20    32.89    88.24    18.72
ECAO  TSVBS0641202020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBS0441181010103 01     SCR2          480.    3574.     85.0     8.13
 3.37    41.12    11.50     9.60    43.30    25.39    66.51    18.61
ECAOINTSVBS0441182020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBS0241042020103 01     SCR1         1080.    8042.     85.0     8.57
 3.33    95.68    11.90     7.20    41.60    52.70   148.38    18.45
ECAO  TSXBS0241042020703 01     SCR1         1566.   11661.     85.0     8.90
 3.32   142.40    12.21     6.36    38.10    69.62   212.03    18.18
ECAO  TSXBS0242412020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBS0441142020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBS0641201020103 01     SCR2          469.    3492.     85.0     8.63
 3.37    41.91    12.00     9.72    43.30    24.87    66.77    19.12
ECAO  TSXBS0641042020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBS0641202020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBS0642201020103 01     SCR2          155.    1154.     85.0     9.13
 3.40    14.47    12.53    11.28    43.60     8.51    22.97    19.90
MANO  TSXBS0441191020103 01     SCR2          366.    2725.     85.0     8.81
 3.35    33.13    12.16     8.28    38.20    17.01    50.14    18.40
MANO  TSXBS0441192020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSXBS1142272020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSXBS0141022020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSXBS0641101020103 01     SCR2          270.    2011.     85.0    11.99
 3.36    30.88    15.36     9.24    36.10    12.24    43.12    21.45
VACA  TSXBS0641102020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSXBS0641222020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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AZNM  TSXSS0841351020303 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0841352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0841352020303 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842351020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842351020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842352020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0741322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0742322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0441192020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSYBS0441042020103 01     SCR1        1300.    9680.     85.0     8.36
 3.31   113.02    11.68     6.24    23.40    38.53   151.56    15.66
MACW  TSYBS0241412020103 01     SCR1        1700.   12659.     85.0     8.92
 3.31   154.78    12.23     6.24    43.00    83.71   238.49    18.84
MANO  TSYBS0441191010103 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741281010703 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741282020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1141262020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1142262020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1142262020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1741282020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1742282020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBS1541121020103 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBS1541122020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWYTSZLS0841322020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPAWYTSZLS0841322020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0841322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0842322020104 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCGCOS3141012050703 01     SCR1          68.     494.     83.5    13.77
 3.39     8.48    17.16    10.32    23.70     2.30    10.78    21.81
RMPA  TSASS0841342020303 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131272020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131252020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020310 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0131022020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
FRCCFLTCOLU1531132020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACA  TCOLU0631041050710 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACA  TCOLU0631102050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACANCTCOLU0631102020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACANCTCOLU0631102020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACAVATCOLU0331092050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TCOLU1731281020310 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TCOLU1731282020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPSTXTCOLU3531292050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
CALI  TCOLU0832372050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
RMPA  TCOLU0831331020310 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NWPE  TCOLU0831332050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0631191040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632051020110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632052020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632192020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0641052020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOMDTOLBU0231082020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTOLBU0432142020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTOLBU0432142020710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TOLBU0231032020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Total Annual Costs
Year: 2005

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACW | TOLBU0232032050110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TOLBU0432192010210 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMO | TOLBU0532281010110 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TOLBU1141252020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMO | TOLBU0532281010110 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TOLBU0632101020210 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TOLBU0632102020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020210 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1732282020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | TOLBU0531281010110 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | TOLBU0531281020110 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | TOLBU0531282020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | TOLBU0532281010110 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TRRBU0432042020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOH | TSABU0441051020110 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPA | TSABU0241032020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSABU1141282010210 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNY | TSABU0141012020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNY | TSABU0142012020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | TSABU0641202020310 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSABU0841341020310 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

NWPE TSABU0832332020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

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TVA TSDBU0642222020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1331392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1332392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

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VACA TSHBU0641102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0632102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0432152020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0231052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0232052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0432141020210 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0632182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSLBU0531281020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     HNO1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     HNO1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBS0432142020304 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBS0432191010103 01     HNC1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBS0432192010203 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TRRBS0832342030304 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020304 01     HNO1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBS0431141010103 01     HNC1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSGBS1231392020104 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1531132020103 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1532132020103 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISS1132262020703 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBS0541272020103 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020703 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBS0431182020103 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBS0432181020103 01     HNO1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSXBS0432392020103 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSXBS0432392020203 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBS0242412020703 01     SNR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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ECAOOHTSBBS0441041020304 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistScrub & SNCR         43               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLU0241082050710 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSABU0441051010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSABU0441051020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACWPATSABU0241032020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSABU0441182020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSABU0441182020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0541252020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0542252020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1142282020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTTSABU3241012020110 01 RL02 | 117. | 870. | 85.0 | 18.21 | 3.43 | 18.82 | 21.64 | 34.32 | 37.07 | 8.34 | 27.16 | 31.23 |
| VACANCTSABU0641102020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABU0641102020210 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSABU0641112020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSABU0641112020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641231020210 01 SD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641232020210 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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RMPA  TSABU0841341020310 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

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TVA   TSBBU0641212020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020110 02     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPSDTSBLU0742261010110 02     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPPNETSBSU1442282020510 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 SD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0641102020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0641102020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSCBU0841342020310 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1242162020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1242162020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 SO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

WUMSWITSCSU1341161010110 01 SL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 RD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 RD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 SL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSDBU1241162020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 SL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSEBU0441142020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 SD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 SL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SO01 84. 624. 85.0 11.96
3.29 9.51 15.25 24.96 24.97 4.18 13.70 21.95

Total Annual Costs

Year: 2005

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MECSMITSGBU0441392020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 SL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 SL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 SL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

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MECS TSIBU0442392020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 SD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 SL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 RL02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3. 99
Total Annual Costs
Year: 2005

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MACW TCOLU0241412050710 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLU0442192020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLU0442192020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0441142020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0441142020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

MANOMOTSABU0542252020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 LD01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

ERCTTXTSASU1941292020310 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU1041292020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU1041292020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU1041292020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU1041292020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2341292020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2341292020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2341292020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2341292020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2342292020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPSTXTSASU2342292020210 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2342292020210 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2342292020210 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 SCR2ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 ML01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MECS TSBBU0441392020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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SOU MSTSBBU1641242020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

MACW TSCBU0241032020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSCSU1242162020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1242162020110 01 LD01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 SCR2ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 ML02SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MANO TSCSU0441182010110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 LD01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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FRCCFLTSDBU1541131020110 01     SCR2LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | Variable Costs | | |
| | | | | | | | | | | | | Fixed Costs | | | | | Total Costs | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| | | | | | | | | | | | | | | | | Total | Total | | | | | | |
| | | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | |
| | | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MECS | TSEBU0441392020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSEBU0441392020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSEBU0441392020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSEBU0441392020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTSEBU0441142020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTSEBU0441142020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTSEBU0441142020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTSEBU0441142020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTSEBU0442142020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTSEBU0442142020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTSEBU0442142020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTSEBU0442142020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACWPATSEBU0241032020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACWPATSEBU0241032020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACS | TSEBU0241072020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACS | TSEBU0241072020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACS | TSEBU0241072020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACS | TSEBU0241072020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TSEBU0442181010110 | 01 | SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TSEBU0442181010110 | 01 | SCR2LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TSEBU0442181010110 | 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TSEBU0442181010110 | 01 | LD01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TSEBU1141252020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TSEBU1141252020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

NENG TSEBU2841012020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 ML01SCR1 0. 0. N/A 0.00
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SOU ALTSEBU0641232020210 01 SCR1LO01 0. 0. N/A 0.00
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SOU ALTSEBU0641232020210 01 SCR1ML01 0. 0. N/A 0.00
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SOU ALTSEBU0641232020210 01 LO01SCR1 0. 0. N/A 0.00
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SOU ALTSEBU0641232020210 01 ML01SCR1 0. 0. N/A 0.00
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SOU ALTSEBU0642232020110 01 SCR1LO01 0. 0. N/A 0.00
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SOU ALTSEBU0642232020110 01 SCR1ML01 0. 0. N/A 0.00
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SOU ALTSEBU0642232020110 01 LO01SCR1 0. 0. N/A 0.00
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SOU ALTSEBU0642232020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SCR2LO01 0. 0. N/A 0.00
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ECAO TSESU0441171010110 01 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SCR1LO01 0. 0. N/A 0.00
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ECAO TSESU0441172020110 01 SCR1ML01 0. 0. N/A 0.00
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ECAO TSESU0441172020110 01 LO01SCR1 0. 0. N/A 0.00
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ECAO TSESU0441172020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 SCR1LO01 0. 0. N/A 0.00
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MANO TSESU0441172010110 01 SCR1ML02 0. 0. N/A 0.00
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MANO TSESU0441172010110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | | | Fixed Costs | | | Total Costs | | | Variable Costs | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Capacity | Gener. | C.F. | | Fuel | | | |
| | | | | | | Total | Total | | | | | | |
| | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | |
| Unit | Name | VOM mill/kWh | Total MMUS$ | Capital US$/kW/a | FOM US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | |
| MANO | TSESU0441172010110 01 | ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSESU0441172020310 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSESU0441172020310 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSESU0441172020310 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSESU0441172020310 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSESU1141261010110 01 | SCR2LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSESU1141261010110 01 | LD01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641111020210 01 | SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641111020210 01 | SCR2LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641111020210 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641111020210 01 | LD01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020110 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020110 01 | SCR1LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020110 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020110 01 | LD01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020210 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020210 01 | SCR1LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020210 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020210 01 | LD01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSESU1741282020110 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSESU1741282020110 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSESU1741282020110 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSESU1741282020110 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSFBU0441142020110 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAO TSFBU0441142020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 SCR2ML02 0. 0. N/A 0.00
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ECAOKYTSFBU0641201020210 01 ML02SCR2 0. 0. N/A 0.00
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ECAOKYTSFBU0641202020210 01 SCR1ML02 0. 0. N/A 0.00
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ECAOKYTSFBU0641202020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641041020110 01 SCR2LD01 0. 0. N/A 0.00
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ECAOWVTSFBU0641041020110 01 LD01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 SCR1ML01 0. 0. N/A 0.00
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SOU TSFBU0641112020110 01 LO01SCR1 0. 0. N/A 0.00
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SOU TSFBU0641112020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SCR1ML01 0. 0. N/A 0.00
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SOU TSFBU0642112020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.109
Total Annual Costs
Year: 2005

| | | |

VACANCTSGBU0641101020110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 SCR2ML01 0. 0. N/A 0.00
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VACANCTSGBU0641101020210 01 LO01SCR2 0. 0. N/A 0.00
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VACANCTSGBU0641101020210 01 ML01SCR2 0. 0. N/A 0.00
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VACANCTSGBU0641102020110 01 SCR1LO01 0. 0. N/A 0.00
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VACANCTSGBU0641102020110 01 SCR1ML02 0. 0. N/A 0.00
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VACANCTSGBU0641102020110 01 LO01SCR1 0. 0. N/A 0.00
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VACANCTSGBU0641102020110 01 ML02SCR1 0. 0. N/A 0.00
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VACANCTSGBU0641102020210 01 SCR1LO01 0. 0. N/A 0.00
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VACANCTSGBU0641102020210 01 SCR1ML01 0. 0. N/A 0.00
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VACANCTSGBU0641102020210 01 LO01SCR1 0. 0. N/A 0.00
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VACANCTSGBU0641102020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

ECAO TSHBU0641041020110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 SCR1LD02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 LD02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| | | | | | | | | | | | | | | | Total | Total | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MECS | TSIBU0441392020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSIBU0441392020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSIBU0441392020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSIBU0441392020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSIBU0442392020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSIBU0442392020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSIBU0442392020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSIBU0442392020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSISU0441171010110 | 01 | SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSISU0441171010110 | 01 | SCR2ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSISU0441171010110 | 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSISU0441171010110 | 01 | ML02SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TSISU1142262020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TSISU1142262020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPPWIT | SISU1341392020110 | 01 | SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPPWIT | SISU1341392020110 | 01 | ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ENTGMOT | SISU0541271010110 | 01 | SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ENTGMOT | SISU0541271010110 | 01 | SCR2ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ENTGMOT | SISU0541271010110 | 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ENTGMOT | SISU0541271010110 | 01 | ML01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSJBU0441051020110 | 01 | SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSJBU0441051020110 | 01 | SCR2LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSJBU0441051020110 | 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSJBU0441051020110 | 01 | LD01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

ECAO TSJBU0441202020410 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 LD01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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MANO  TSXBU0441192020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.SCR+Scrb                   44            1015.    7559.     85.0    12.78
 3.32   121.65    16.09    26.13    26.36    53.29   174.94    23.14

MACW  TCOLU0241412050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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NWPE  TSASU0842322020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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SOU ALTSEBU0642232020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSGBU0441392020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     CO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSGBU1141272020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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WUMSWITSLBU1341392020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACAVATOLBU0332092020110 01 LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 HNO1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 HNO1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 LO01HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 ML01HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051020110 01 HNO1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051020110 01 LO01HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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TVA   TSABU0641202020310 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     HNC1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01HNC1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     HNC1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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SPPNMOTSBSU0542282020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HNC1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HNC1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 LO01HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 ML01HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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Year: 2005

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ECAOOHTSEBU0442142020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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Year: 2005

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VACANCTSGBU0641102020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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Year: 2005

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MAPP  TSISU1142262020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HNO1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     LO01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

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| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431152020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431152020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431392020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431392020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0231082020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0241082050710 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431192020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431192020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431042050710 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431042050710 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631051020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631202020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631202020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAOVA | TCOLU0331062020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MACW | TCOLU0231031020310 | 01 | HG06 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MACW | TCOLU0231031020310 | 01 | HG02 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |

Total Annual Costs

Year: 2005

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MAPP  TCOLU1131252020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131252020210 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131262020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131262020310 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TCOLU0131022020110 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TCOLU0131022020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTCOLU1531132020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTCOLU1531132020110 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631041050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631041050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631102050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLU0631102020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLU0631102020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLU0331092050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TCOLU1731281020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TCOLU1731282020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTCOLU3531292050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTCOLU3531292050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  TCOLU0832372050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  TCOLU0832372050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLU0831331020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLU0831331020310 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TCOLU0831332050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TCOLU0831332050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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SPPNMOTOLBU0531281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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SPPS TSASU3641282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2341292020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2342292020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PNW ORTSASU0842372020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0841342020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

SOU MSTSBBU1641242020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSCBU0441041020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSCBU0131032020310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEDETSCBU0231032020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1131272010110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1131272010110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1131252020110 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1131252020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1131252020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1132252020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1132252020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0131022020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0631102020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0641102020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSCBU1731282010310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSCBU1732281010110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

SPPN TSCBU1732281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0832342020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSO0441182010102 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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ECAOOHTSEBU0442142020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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ECAO TSFSU0441202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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ECAO TSHBU0641042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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ECAOINTSKBU0432182020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0632102020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0432152020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0231052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0232052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0432141020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0432141020210 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSLBU0531281020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSLBU0531281020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSXBU0441192020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBU0432191010210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0431192020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0432192010210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CGCOU0431392050710 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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CALI  CGCOU0832372050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSO1332392020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ACI                        49               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLS0231411020703 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0231411020703 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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FRCCFLTSGBS1531132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISS0541272020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841352020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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VACA TSXBS0641101020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841402020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020303 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841362020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2341302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302030303 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSLATSXLS1041302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSXLS2341302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS1941292020303 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

SPPN TSYBS1741282020703 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1141262020304 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020203 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1741282020304 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1742282020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSZBS0431142010103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSZBS0431142010103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541121020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541122020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWYTSZLS0841322020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPAWYTSZLS0841322020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0841322020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0842322020104 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOS0331092050304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOS0331092050304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP TSASS0732312020703 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASS0841342020303 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBS0441041020304 01 HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBS0441041020304 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSS0542282020103 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW WATSBSS0741372020103 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSDSS0541282020103 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSESS1741282020103 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ExistScrub&ACI 50 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTSABC2941011010101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABC0641232020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBC0641061020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441042020101 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441042020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBC0641101020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSEBC0641042020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSEBC0641042020101 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020201 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBC0441181010101 01 HG01 | 0. | 0. | N/A | 0.00 | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020401 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBC0641112020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBC0641112020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBC0441041020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBC0441041020201 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBC0441041020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBC0441041020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSKBC0641232020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSKBC0641232020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBC0441181020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGNHTSLBN2932012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBN0641042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
Ret.ExistSNCR&ACI              52               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | | Gener. | | C.F. | | Fuel | | | |
| VOM | | | | | Total | | | Capital | | FOM | | | | Total | | | | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | [MW] | | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | MMUS$ | | MMUS$ | | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| ECAO | TCOLU0241082050710 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACW | TCOLU0241412050710 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACW | TCOLU0241412050710 | 01 | | | | | | | | SCR1HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TCOLU0442192020110 | 01 | | | | | | | | SCR1HG05 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TCOLU0442192020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ENTG | TCOLU1041292050210 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TOLBU0641052020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAOOHTOLBU0441142020110 | | 01 | | | | | | | | SCR1HG05 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MAPP | TOLBU1141252020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MAPP | TOLBU1141252020110 | 01 | | | | | | | | SCR1HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| VACAVA | TOLBU0332092020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPN | TOLBU1742282020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPNMOT | OLSU0542281010110 | 01 | | | | | | | | SCR2HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MECS | TSABU0441391020110 | 01 | | | | | | | | SCR2HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MECS | TSABU0441391020110 | 01 | | | | | | | | SCR2HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSABU0441201020110 | 01 | | | | | | | | SCR2HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSABU0441201020110 | 01 | | | | | | | | SCR2HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAOOHTSABU0441051010110 | | 01 | | | | | | | | SCR2HG05 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAOOHTSABU0441051020110 | | 01 | | | | | | | | SCR2HG05 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ERCTTX | TSABU2341292020210 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACWPAT | SABU0241032020110 | 01 | | | | | | | | SCR1HG05 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACWPAT | SABU0241032020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSABU0441182020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANOMOT | SABU0541252020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |

MANOMOTSABU0541252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 SCR2HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU1041292020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | | Gener. | | C.F. | | Fuel | | | |
| VOM | | | | Total | | | | Capital | | FOM | | | | Total | | | | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | [MW] | | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | MMUS$ | | MMUS$ | | mill/kWh | | | | | |
| SPPSTXTSASU2341292020210 | | | | | | | | | | | | | 01 | | SCR1HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| SPPSTXTSASU2342292020210 | | | | | | | | | | | | | 01 | | SCR1HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| SPPSTXTSASU3541292020110 | | | | | | | | | | | | | 01 | | SCR1HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| SPPSTXTSASU3541292020310 | | | | | | | | | | | | | 01 | | SCR1HG12 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| PNW | ORTSASU0842372020110 | | | | | | | | | | | | 01 | | SCR1HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| RMPA | TSASU0841342020310 | | | | | | | | | | | | 01 | | SCR1HG12 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| NWPE | TSASU0742322020110 | | | | | | | | | | | | 01 | | SCR1HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| NWPE | TSASU0841322020110 | | | | | | | | | | | | 01 | | SCR1HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| NWPE | TSASU0842322020110 | | | | | | | | | | | | 01 | | SCR2HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| MECS | TSBBU0441392020110 | | | | | | | | | | | | 01 | | SCR1HG01 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| MECS | TSBBU0441392020110 | | | | | | | | | | | | 01 | | SCR1HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAO | TSBBU0241041020110 | | | | | | | | | | | | 01 | | SCR2HG05 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAO | TSBBU0241041020110 | | | | | | | | | | | | 01 | | SCR2HG01 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAO | TSBBU0241041020110 | | | | | | | | | | | | 01 | | SCR2HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAO | TSBBU0241042020110 | | | | | | | | | | | | 01 | | SCR1HG01 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAO | TSBBU0241042020110 | | | | | | | | | | | | 01 | | SCR1HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAO | TSBBU0641062020110 | | | | | | | | | | | | 01 | | SCR1HG01 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAOINTSBBU0441182020110 | | | | | | | | | | | | | 01 | | SCR1HG05 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAOOHTSBBU0441041020110 | | | | | | | | | | | | | 01 | | SCR2HG01 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAOOHTSBBU0441041020110 | | | | | | | | | | | | | 01 | | SCR2HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAOOHTSBBU0441042020110 | | | | | | | | | | | | | 01 | | SCR1HG01 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| ECAOOHTSBBU0441042020110 | | | | | | | | | | | | | 01 | | SCR1HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| MANOILTSBBU0441181010110 | | | | | | | | | | | | | 01 | | SCR2HG01 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |
| MANOILTSBBU0441181010110 | | | | | | | | | | | | | 01 | | SCR2HG11 | | | 0. | | 0. | | N/A | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | |

MAPPNETSBBU1441282010310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 SCR1HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 SCR1HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 SCR1HG10 0. 0. N/A 0.00
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MAPPSDTSBLU0742261010110 02 SCR2HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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WUMSWITSCSU1342162020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1HG01 0. 0. N/A 0.00
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ECAOVATSDBU0341061020110 01 SCR2HG01 0. 0. N/A 0.00
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ECAOWVTSDBU0641051010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 SCR1HG01 0. 0. N/A 0.00
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MANOILTSDBU0441191020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

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MAPPNDTSELU0742312020110 02 SCR1HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SCR2HG11 0. 0. N/A 0.00
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ECAO TSESU0441172020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641041020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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ECAO TSHBU0441182020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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NWPE  TSXBU0841402020110 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ACI & SCR                   53               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

VACANCTCOLS0641102050304 01     SCR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SCR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TRRBS0832342030304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020304 01     SCR2HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841342020303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841342020304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABS0841352020104 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBS1142252020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSEBS1541132020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSEBS1541132020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISS1141262020703 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2005

| | | |

ECAO TSXBS0441142020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 SCR1HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 SCR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 SCR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | Variable Costs | | |
| | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| VOM | | | | | | | | | | | Total | | Capital | | FOM | Total | | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | mill/kWh | | |
| | | | | | | | | | | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | | MMUS$ | MMUS$ | mill/kWh | | | | | |
| NWPE | TSXBS0841332020103 | 01 | | | | | | | | | SCR1HG07 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| NWPE | TSXBS0841402020103 | 01 | | | | | | | | | SCR1HG07 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| NWPE | TSXBS0841332020303 | 01 | | | | | | | | | SCR1HG08 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| NWPE | TSXBS0841362020304 | 01 | | | | | | | | | SCR1HG08 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ERCTTXTSXLS2341302020103 | | 02 | | | | | | | | | SCR1HG09 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ERCTTXTSXLS2342302020103 | | 02 | | | | | | | | | SCR1HG09 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ERCTTXTSXLS2342302030303 | | 02 | | | | | | | | | SCR1HG10 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MAPPNDTSXLS0741311020103 | | 02 | | | | | | | | | SCR1HG09 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MAPPNDTSXLS0742311010103 | | 02 | | | | | | | | | SCR2HG09 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MAPPNDTSXLS0742312010304 | | 02 | | | | | | | | | SCR2HG09 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MAPPNDTSXLS0742312020304 | | 02 | | | | | | | | | SCR1HG09 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SPPSLATSXLS1041302020103 | | 02 | | | | | | | | | SCR1HG09 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SPPSTXTSXLS2341302020103 | | 02 | | | | | | | | | SCR1HG09 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ERCTTXTSXSS1941292020303 | | 01 | | | | | | | | | SCR1HG12 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ERCTTXTSXSS2341292020103 | | 01 | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ERCTTXTSXSS2341292020303 | | 01 | | | | | | | | | SCR1HG12 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ERCTTXTSXSS3541292020103 | | 01 | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SPPS | TSXSS3642282020104 | 01 | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| AZNM | TSXSS0841351020303 | 01 | | | | | | | | | SCR2HG12 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| AZNM | TSXSS0841352020203 | 01 | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| AZNM | TSXSS0841352020303 | 01 | | | | | | | | | SCR1HG12 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| AZNM | TSXSS0842351020203 | 01 | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| AZNM | TSXSS0842351020703 | 01 | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| AZNM | TSXSS0842352020203 | 01 | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |

AZNM TSXSS0842352020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0741322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSYBS0441042020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1141262020304 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020203 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1741282020304 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1742282020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541121020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541122020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWYTSZLS0841322020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPAWYTSZLS0841322020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0841322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0842322020104 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431182020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431182020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431192020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431042050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431042050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631051020110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631202020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631202020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOVATCOLU0331062020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     HNO1HG06       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     HNO1HG02       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.146
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CALI TCOLU0832372050710 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0832372050710 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 HNO1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 HNO1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0631191040110 01 HNO1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0631191040110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632051020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632052020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632192020210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632192020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOMDTOLBU0231082020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0432142020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0432142020710 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0231032020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0232032050110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 HNC1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 HNC1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632101020210 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632102020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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RMPA TSABU0841341020310 01 HNO1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 SNR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 HNC1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 HNC1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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MAPP  TSCBU1131252020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0631102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1731282010310 01     HNC1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     HNC1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     HNC1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0832342020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     HNC1HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     HNC1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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UPNY TSFBU0131022020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 SNR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 SNR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 SNR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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VACA  TSHBU0641102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBU0632222020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBU0632222020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSHSU0432392020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0432392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0432392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1132262020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1132262020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG06       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0432392020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0432392020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0432252020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0432252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSKBU0432182020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSKBU0432182020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0632102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0432152020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.151
Total Annual Costs
Year: 2005

| Unit | Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAO | TSLBU0231052020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0232052020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0241052020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0432141020210 01 HNO1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0432141020210 01 HNO1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0632182020110 01 SNR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0632182020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0632182020110 01 SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWI | TSLBU1341392020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | TSLBU0531281020110 01 HNO1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | TSLBU0531281020110 01 HNO1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | TSLSU0641222020110 01 SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSXBU0641041020110 01 HNO1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSXBU0841402020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSYBU0432191010210 01 HNC1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSZBU0431192020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSZBU0432192010210 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | CGCOU0431392050710 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | CGCOU0431392050710 01 SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | CGCOU0231412050710 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | CGCOU0231412050710 01 SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE | CGCOU0141012050710 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | CGCOU0231412050710 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | CGCOU0231412050710 01 SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACW  CGCOU0232412050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0232412050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOU0131022050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CGCOU0931012050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  CGCOU0631102050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOU0631102050310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOU0631102050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0331092050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0831372050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0831372050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0832372050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0832372050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     HNO1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ACI & SNCR                 55               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLS0231411020703 01     HNO1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0231411020703 01     HNO1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     SNR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     SNR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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WUMSWITSGBS1231392020104 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 HNO1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 HNO1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 HNO1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 SNR1HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 SNR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| | | | | | | | | | | | | | | | Total | Total | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| AZNM | TSXBS0842362020703 | 01 | SNR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ERCTTX | TSXLS2342302030303 | 02 | SNR1HG10 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPPND | TSXLS0732312020304 | 02 | SNR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| AZNM | TSXSS0842352020703 | 01 | SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TSXSS0832402020104 | 01 | SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSYBS0432192020204 | 01 | SNR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSYBS0432192020204 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TSYBS0441191010103 | 01 | HNC1HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TSYBS0441191010103 | 01 | HNC1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | TSYBS1742282020703 | 01 | SNR1HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | TSYBS1742282020703 | 01 | SNR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSZBS0431142010103 | 01 | SNR1HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSZBS0431142010103 | 01 | SNR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | CGCOS0631041050303 | 01 | HNO1HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | CGCOS0631041050303 | 01 | HNO1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACW | CGCOS0231412050304 | 01 | SNR1HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACW | CGCOS0231412050304 | 01 | SNR1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACW | CGCOS0232412050304 | 01 | SNR1HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACW | CGCOS0232412050304 | 01 | SNR1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| UPNY | CGCOS0131022050304 | 01 | SNR1HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| UPNY | CGCOS0131022050304 | 01 | SNR1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NENGCT | CGCOS3141012050703 | 01 | SNR1HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NENGCT | CGCOS3141012050703 | 01 | SNR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACAVA | CGCOS0331092050304 | 01 | SNR1HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

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VACAVACGCOS0331092050304 01     SNR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSASS0732312020703 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASS0841342020303 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     HNO1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     HNO1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistScrub&ACI&SNCR       56               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLU0241082050710 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| | | | | | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MAPP | TOLBU1141252020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TOLBU1141252020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOL | SU0542281010110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOL | SU0542281010110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOL | SU0542281010110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOL | SU0542281010110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSABU0441391020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSABU0441391020110 | 01 | LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSABU0441391020110 | 01 | LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSABU0441391020110 | 01 | LD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SABU0441051010110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SABU0441051020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ERCTTXTSABU2341292020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG11 0. 0. N/A 0.00
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MACWPATSABU0241032020110 01 LO01HG03 0. 0. N/A 0.00
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MACWPATSABU0241032020110 01 ML01HG03 0. 0. N/A 0.00
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MACWPATSABU0241032020110 01 ML01HG07 0. 0. N/A 0.00
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MANO TSABU0441182020110 01 LO01HG03 0. 0. N/A 0.00
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MANO TSABU0441182020110 01 LD01HG05 0. 0. N/A 0.00
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MANO TSABU0441182020110 01 LD01HG01 0. 0. N/A 0.00
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MANO TSABU0441182020110 01 LD01HG11 0. 0. N/A 0.00
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MANOMOTSABU0541252020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 LD01HG11 0. 0. N/A 0.00
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MANOMOTSABU0542252020110 01 ML01HG07 0. 0. N/A 0.00
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MANOMOTSABU0542252020110 01 ML01HG11 0. 0. N/A 0.00
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MAPP TSABU1141282020110 01 ML02HG03 0. 0. N/A 0.00
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MAPP TSABU1141282020110 01 ML02HG07 0. 0. N/A 0.00
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MAPP TSABU1141282010210 01 ML01HG03 0. 0. N/A 0.00
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MAPP TSABU1141282010210 01 ML01HG07 0. 0. N/A 0.00
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MAPP TSABU1141282010210 01 ML01HG11 0. 0. N/A 0.00
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MAPP TSABU1142282020110 01 ML02HG03 0. 0. N/A 0.00
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MAPP TSABU1142282020110 01 ML02HG11 0. 0. N/A 0.00
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DSNYNYTSABU0141012020110 01 ML01HG07 0. 0. N/A 0.00
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DSNYNYTSABU0142012020110 01 ML01HG07 0. 0. N/A 0.00
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NENGCTTSABU3241012020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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NWPE TSABU0841332020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

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SPPSTXTSASU3541292020310 01     ML02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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TVA   TSBBU0641212020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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MANO TSBSU0441172020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBU0441041020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBU0441041020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| | | | | | | | | | | | | | | | Total | Total | | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MACW | TSCBU0242032020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACW | TSCBU0242032020110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACW | TSCBU0242032020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACW | TSCBU0242032020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| UPNY | TSCBU0141022020210 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| UPNY | TSCBU0141022020210 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| UPNY | TSCBU0141022020210 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| UPNY | TSCBU0141022020210 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACA | TSCBU0641102020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACA | TSCBU0641102020110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACA | TSCBU0641102020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACA | TSCBU0641102020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| TVA | TSCBU0641212020210 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| TVA | TSCBU0641212020210 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| TVA | TSCBU0641212020210 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| TVA | TSCBU0641212020210 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SOU | TSCBU0641232020210 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SOU | TSCBU0641232020210 | 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SOU | TSCBU0641232020210 | 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SOU | TSCBU0641232020210 | 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TSCBU0841342020310 | 01 | ML01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TSCBU0841342020310 | 01 | ML01HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TSCBU0841342020310 | 01 | ML01HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWI | TSCSU1242162020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

WUMSWITSCSU1242162020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 LO01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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MECS  TSDBU0441392020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSDBU0241081020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FRCCFLTSDBU1541132020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

WUMSWITSDSU1342392010210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| VACASCTSEBU0641102020310 01 ML01HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312010110 02 ML02HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312020110 02 ML01HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172020310 01 LO01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172020310 01 ML01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172020310 01 ML01HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MANO  TSESU0441172020310 01     ML01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641202020210 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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MECSMITSGBU0441392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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ECAO TSHBU0441041020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG12 0. 0. N/A 0.00
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ECAO TSHBU0641041020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 LO01HG03 0. 0. N/A 0.00
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ECAO TSHBU0641042020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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MECS TSIBU0442392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

ECAO TSLBU0241052020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRCCFLCGCOU1541132050710 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGCOU1541132050710 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGCOU1541132050710 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGCOU1541132050710 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBU0541272020110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBU0541272020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBU0541272020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ACI & Srub | | 57 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTSABC2941011010101 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 | 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 | 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 | 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABC0641232020101 | 01 | LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBC0641061020101 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LO02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LO02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| | | |

SOU TSHBC0641112020101 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBC0441041020201 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBC0441041020201 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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ECAO  TSGSC0441201020101 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ExistSCR&ACI&Scrub         58               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MACEDETSABN0241032020102 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACENJTSBBN0141031010102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEDETSCBN0241032020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBN0441042020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBN0441042020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSDBN0441042020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBN0641042020102 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBN0441142020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBN0441142020102 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSXBD0341092020307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSXBD0341092020307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOD0231412050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOD0231412050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistSNCR&ExistScrub&ACI  60               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TSYBA0441192020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBA0441192020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSYBA0441041020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSYBA0141022020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSYBA0141022020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSYBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020205 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| ECAO | TSXBA0641202020205 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| UPNY | TSXBA0141022020105 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| UPNY | TSXBA0141022020105 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFL | TSXBA1541122020105 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFL | TSXBA1541122020105 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFL | TSXBA1541132020105 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFL | TSXBA1541132020105 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSXBA0641101020105 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSXBA0641101020105 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSXBA0641102020105 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSXBA0641102020105 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSXBA0642101020105 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSXBA0642101020105 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| TVA | TSXBA0641221020105 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| TVA | TSXBA0641221020105 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| TVA | TSXBA0641222020105 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| TVA | TSXBA0641222020105 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| TVA | TSXBA0641222020705 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| TVA | TSXBA0641222020705 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVAT | SBBA0341092020105 | | 01 | | HG03 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVAT | SBBA0341092020105 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | TSABA0141011020206 | | 01 | | HG01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | TSABA0141011020206 | | 01 | | HG05 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFL | TSABA1541132020105 | | 01 | | HG07 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

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VACAWVTSABA0641052020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAWVTSABA0641052020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBA0641051020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBA0641051020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBA1541122020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSZBA0641052020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSZBA0641052020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLA0241052050705 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLA0241052050705 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTCOLA0541252020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTCOLA0541252020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLA0831402020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSFBA0241412020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSFBA0241412020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSCSA0541282020306 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441181020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
Ret.ExistSCR&ExistScrub&ACI   61               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TSXBE0232041020207 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TOLBU1141252020110 01     RL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTSABU0441051010110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTSABU0441051020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Total Annual Costs

Year: 2005

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SOU TSABU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 SD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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SPPS  TSASU1041292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RO01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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ECAOOHTSBBU0441041020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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MAPPSDTSBLU0742261010110 02     SL02HG09       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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VACA TSCBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

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MAPP TSCSU1141251020210 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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VACANCTSDBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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MAPPNDTSELU0742312020110 02 RL01HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

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SOU TSFBU0641112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RO02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

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VACANCTSGBU0642102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | Gener. | | C.F. | | Fuel | | | | |
| VOM | | | | | Total | | Capital | | FOM | | | | | Total | | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | [MW] | [GWh] | | [%] | | mill/kWh | | | mill/kWh | |
| | MMUS$ | | mill/kWh | | | US$/kW/a | | US$/kW/a | | | | | | MMUS$ | MMUS$ | | mill/kWh | | | | | | |
| ECAO | TSHBU0641041020110 | | | | | 01 | | | | SO01HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641041020110 | | | | | 01 | | | | SL01HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641041020110 | | | | | 01 | | | | SL01HG07 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641041020110 | | | | | 01 | | | | SL01HG11 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641042020110 | | | | | 01 | | | | RO01HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641042020110 | | | | | 01 | | | | RL02HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641042020110 | | | | | 01 | | | | RL02HG07 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641042020110 | | | | | 01 | | | | RL02HG11 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641182020110 | | | | | 01 | | | | RO01HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641182020110 | | | | | 01 | | | | RL01HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641182020110 | | | | | 01 | | | | RL01HG07 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0641182020110 | | | | | 01 | | | | RL01HG11 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0642181020110 | | | | | 01 | | | | SO01HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0642181020110 | | | | | 01 | | | | SL01HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0642181020110 | | | | | 01 | | | | SL01HG07 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0642181020110 | | | | | 01 | | | | SL01HG11 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0642182020210 | | | | | 01 | | | | RO01HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0642182020210 | | | | | 01 | | | | RL01HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0642182020210 | | | | | 01 | | | | RL01HG07 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ECAO | TSHBU0642182020210 | | | | | 01 | | | | RL01HG11 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| MACW | TSHBU0241412020110 | | | | | 01 | | | | RD02HG05 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| MACW | TSHBU0241412020110 | | | | | 01 | | | | RD02HG01 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| MACW | TSHBU0241412020110 | | | | | 01 | | | | RD02HG11 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |
| MACW | TSHBU0241412020110 | | | | | 01 | | | | RO01HG03 | | | | 0. | 0. | | N/A | | 0.00 | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | | 0.00 | | | | | | |

MANOILTSHBU0441192020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

MANO TSKBU0441181010110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | Total | | Capital | | FOM | | | | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| ECAO | TSXBU0641041020110 | 01 | | | | | | | | SL01HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSXBU0441192020110 | 01 | | | | | | | | RO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSXBU0441192020110 | 01 | | | | | | | | RL02HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSXBU0441192020110 | 01 | | | | | | | | RL02HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSXBU0441192020110 | 01 | | | | | | | | RL02HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | TSXBU0841402020110 | 01 | | | | | | | | RL01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | TSXBU0841402020110 | 01 | | | | | | | | RL01HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | TSXBU0841402020110 | 01 | | | | | | | | RL01HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | CGCOU0141012050710 | 01 | | | | | | | | RO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | CGCOU0141012050710 | 01 | | | | | | | | RL01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | CGCOU0141012050710 | 01 | | | | | | | | RL01HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | CGCOU0141012050710 | 01 | | | | | | | | RL01HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFLCGCOU1541132050710 | | 01 | | | | | | | | RO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFLCGCOU1541132050710 | | 01 | | | | | | | | RL01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFLCGCOU1541132050710 | | 01 | | | | | | | | RL01HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFLCGCOU1541132050710 | | 01 | | | | | | | | RL01HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVACGCOU0341092050710 | | 01 | | | | | | | | RO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVACGCOU0341092050710 | | 01 | | | | | | | | RL01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVACGCOU0341092050710 | | 01 | | | | | | | | RL01HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVACGCOU0341092050710 | | 01 | | | | | | | | RL01HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | CGCOU3641282050710 | 01 | | | | | | | | RO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | CGCOU3641282050710 | 01 | | | | | | | | RL01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | CGCOU3641282050710 | 01 | | | | | | | | RL01HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | CGCOU3641282050710 | 01 | | | | | | | | RL01HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

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SPPNMOTSUBU0541272020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
Ret.SCR & Scrub & ACI         63               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MACW  TCOLU0241412050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSABU0441051020110 01     HO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

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NWPE TSASU0842322020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 NL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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TVA   TSCBU0641212020210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| VOM | | | | | | | | | | | Total | | Capital | | FOM | Total | | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | mill/kWh | | | |
| | | | | | | | | | | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | |
| MECS | TSEBU0441392020110 | 01 | | | | | | | | | NO01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MECS | TSEBU0441392020110 | 01 | | | | | | | | | NL01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MECS | TSEBU0441392020110 | 01 | | | | | | | | | NL01HG07 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MECS | TSEBU0441392020110 | 01 | | | | | | | | | NL01HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSEBU0441142020110 | | 01 | | | | | | | | | NO01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSEBU0441142020110 | | 01 | | | | | | | | | NL01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSEBU0441142020110 | | 01 | | | | | | | | | NL01HG07 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSEBU0442142020110 | | 01 | | | | | | | | | NO01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSEBU0442142020110 | | 01 | | | | | | | | | NL01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSEBU0442142020110 | | 01 | | | | | | | | | NL01HG07 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACWPATSEBU0241032020110 | | 01 | | | | | | | | | NL01HG07 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACS | TSEBU0241072020110 | 01 | | | | | | | | | NO01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACS | TSEBU0241072020110 | 01 | | | | | | | | | NL01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACS | TSEBU0241072020110 | 01 | | | | | | | | | NL01HG07 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACS | TSEBU0241072020110 | 01 | | | | | | | | | NL01HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| VACASCTSEBU0641102020110 | | 01 | | | | | | | | | NL01HG07 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| VACASCTSEBU0641102020310 | | 01 | | | | | | | | | NL01HG08 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SOU ALTSEBU0642232020110 | | 01 | | | | | | | | | NO01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SOU ALTSEBU0642232020110 | | 01 | | | | | | | | | NL01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SOU ALTSEBU0642232020110 | | 01 | | | | | | | | | NL01HG07 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MAPPNDTSELU0742312020110 | | 02 | | | | | | | | | NL01HG09 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSESU0441172020110 | 01 | | | | | | | | | NO01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSESU0441172020110 | 01 | | | | | | | | | NL01HG03 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSESU0441172020110 | 01 | | | | | | | | | NL01HG07 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |

ECAO TSESU0441172020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

ECAO TSHBU0441042020310 01 NL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 NL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | Variable Costs | | |
| | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| VOM | | | | | | | | | | | Total | | Capital | | FOM | Total | | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | mill/kWh | | | |
| | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | | | | | | | | | | | | |
| MAPP | TSISU1142262020110 | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TSISU1142262020110 | 01 | NL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSJBU0441202020410 | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSJBU0441202020410 | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSJBU0441202020410 | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSJBU0441202020410 | 01 | NL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACANCT | SKBU0641102020210 | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACANCT | SKBU0641102020210 | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACANCT | SKBU0641102020210 | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACANCT | SKBU0641102020210 | 01 | NL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECSMIT | SLBU0441152020110 | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSLBU0241052020110 | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSLBU0241052020110 | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSLBU0241052020110 | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSLBU0241052020110 | 01 | NL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWIT | SLBU1341392020110 | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWIT | SLBU1341392020110 | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWIT | SLBU1341392020110 | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWIT | SLBU1341392020110 | 01 | NL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| TVA | TSLSU0641222020110 | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| TVA | TSLSU0641222020110 | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| TVA | TSLSU0641222020110 | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| TVA | TSLSU0641222020110 | 01 | NL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSXBU0641041020110 | 01 | HO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

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ECAO  TSXBU0641041020110 01     HL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
Ret.SNCR & Scrub & ACI        64               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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NENG STGAU0111 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0911 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0921 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTGAU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTGAU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTGAU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA STGAU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STGAU0611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STGAU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTGAU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STGAU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STGAU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTGAU1611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STGAU1711 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STGAU1721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTGAU0511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTGAU0521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSMSSTGAU1611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2211 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU3511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0811 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0811 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.193
Total Annual Costs
Year: 2005

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NENG STHSU2821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STHSU2822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHSTHSU2922 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1522 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTHSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU2721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU3421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1711 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1712 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.194
Total Annual Costs
Year: 2005

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MAPPNESTLSU1412 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNESTLSU1421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNESTLSU1422 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC STLSU0122 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STLSU0922 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STLSU2821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTLSU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTLSU3222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1512 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1522 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVASTLSU0321 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVASTLSU0322 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTLSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTLSU1622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STLSU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STLSU1022 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTLSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTLSU1622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTLSU1821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTLSU0512 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTLSU0521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

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FRCCFLCGGAU1511   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   CGGAU0611   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  CGGAU1011   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.O/G SCR                   65              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2711   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0111   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0121   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  STGAU0412   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1311   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOSTGAU0511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | Total | | | Capital | | FOM | | | | Total | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | [MW] | | | [GWh] | | [%] | | mill/kWh | | mill/kWh | | |
| | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | MMUS$ | | | MMUS$ | | mill/kWh | | | | | | |
| MAPP | STGAU1111 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MAPP | STGAU1112 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MAPP | STGAU1121 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MAPPMO | STGAU0511 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MAPPNE | STGAU1411 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MAPPWI | STGAU1311 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| UPNY | STGAU0121 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| NYC | STGAU0121 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| LILC | STGAU0121 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| NENG | STGAU0111 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| NENG | STGAU0121 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| NENG | STGAU0911 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| NENG | STGAU0921 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| NENGCT | STGAU3221 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| FRCCFL | STGAU1511 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| FRCCFL | STGAU1521 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| VACA | STGAU0621 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| SOU | STGAU0611 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| SOU | STGAU0621 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| SOU MS | STGAU1621 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| ENTG | STGAU1011 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| ENTG | STGAU1021 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| ENTGMS | STGAU1611 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| SPPN | STGAU1711 | 000000 | 00 | | SCN1 | | | | | | | 0. | | | 0. | | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | | |

SPPN STGAU1721 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTGAU0511 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTGAU0521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1011 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1021 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3611 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3621 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSMSSTGAU1611 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2211 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2511 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU3511 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0811 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0811 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STGAU0811 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STGAU0821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE STGAU0822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS STHSU0411 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS STHSU0421 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS STHSU0422 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU1821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU2021 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU2221 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU2321 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU2421 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTHSU2521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSU0112 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSU0121 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSU0211 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | Gener. | | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | Total | | Total | | | | | | | |
| Unit | Name | | | | | | | | | | | | | [MW] | [GWh] | | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | MMUS$ | MMUS$ | | mill/kWh | | | | | | |
| MACE | STHSU0221 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| MACE | STHSU0222 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| MACW | STHSU0221 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| MACS | STHSU0222 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| DSNY | STHSU0121 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| LILC | STHSU0121 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| NENG | STHSU0122 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| NENG | STHSU0921 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| NENG | STHSU0922 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| NENG | STHSU2821 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| NENG | STHSU2822 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| NENGCT | STHSU3221 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| NENGCT | STHSU3222 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| NENGNH | STHSU2922 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| FRCCFL | STHSU1511 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| FRCCFL | STHSU1521 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| FRCCFL | STHSU1522 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| SOU | STHSU0621 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| SOU | STHSU0622 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ENTGMS | STHSU1621 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ENTGTX | STHSU2721 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| ENTGTX | STHSU3421 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| SPPN | STHSU1711 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |
| SPPN | STHSU1712 | 000000 | 00 | SCN1 | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | | | |

SPPN STHSU1721 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 SCN1 0. 0. N/A 0.00
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ERCTTXSTLSU2011 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2212 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2221 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2222 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2321 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2322 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2422 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2511 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2512 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2522 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3522 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0121 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0122 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0221 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.198
Total Annual Costs
Year: 2005

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FRCCFLSTLSU1521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLSTLSU1522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0322   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1022   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0512   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1012   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1022   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3612   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTLSU1612   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2222   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU3522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   STLSU0721   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

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MECS  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0213   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0412   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0423   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0612   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0614   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0622   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0623   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0624   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVACT   0322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1814   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1922   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1923   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1924   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2312   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.200
Total Annual Costs
Year: 2005

| Unit Name | VOM | Total | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel | Variable Costs |
|---|---|---|---|---|---|---|---|---|---|
| | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | mill/kWh | mill/kWh |
| ERCTTXCT 2322 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2323 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2414 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2512 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2514 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2722 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3514 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3522 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3523 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3524 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0113 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0114 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0122 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0123 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0124 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0212 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0213 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0214 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0222 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0223 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEVACT 0312 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEVACT 0314 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEVACT 0323 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CT 0213 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACW  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0211   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0212   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSVACT   0322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1312   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1323   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1324   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0411   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0412   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0512   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0513   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0514   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0522   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.201
Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MANOMOCT 0523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOCT 0524 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0414 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0712 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0713 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0714 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0722 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0724 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1111 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1112 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1113 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1114 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1122 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1123 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1124 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCT 0513 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCT 0523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1412 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1413 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1414 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1422 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1423 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1424 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWICT 1312 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MAPPWICT   1313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1323   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0113   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0123   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0113   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0123   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0912   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0914   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0923   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   2814   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3212   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3213   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Capital US$/kW/a | FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENGCTCT 3222 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCT 3223 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCT 3224 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHCT 2914 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHCT 3014 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1512 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1513 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1514 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1522 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1524 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0612 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0613 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0614 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0622 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0623 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0624 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0611 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0613 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0614 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0622 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0623 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0624 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT 0312 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACAVACT | 0313 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0314 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0322 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0324 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0612 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0623 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1612 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0611 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0613 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0623 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0624 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1613 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1624 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1012 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1014 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1022 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1023 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCT | 0513 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCT | 0522 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT | 1711 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT | 1712 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.203
Total Annual Costs
Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPN CT 1713 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT 1714 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT 1722 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT 1723 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT 1724 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCT 0511 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCT 0512 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCT 0513 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCT 0514 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCT 0522 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCT 0523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCT 0524 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 0812 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 0814 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 0823 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 0824 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 1012 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 1014 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 1022 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 3612 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 3614 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 3622 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 3623 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CT 3624 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPSMSCT | 1614 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2214 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2322 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2512 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2513 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2514 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2524 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2722 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 3513 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 3514 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0812 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0813 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0814 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0821 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0823 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0824 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0714 | 000000 | 00 | RET1 | | 30. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0722 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0724 | 000000 | 00 | RET1 | | 28. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0812 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0814 | 000000 | 00 | RET1 | | 6. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0813 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0814 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0823 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0824 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNMTXCT | 3523 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT | 0713 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT | 0714 | 000000 | 00 | RET1 | | 10. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Total Annual Costs

Year: 2005

| | | |

ERCTTXCGCT 2711 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0111 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0122 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0222 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCT 0212 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCT 0222 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCT 0412 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCT 1112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCT 0122 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCT 0111 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCT 0912 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCT 0922 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCT 3112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHCGCT 3012 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCT 1512 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCT 1522 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCT 0612 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCT 0311 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCT 0312 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA CGCT 0622 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCT 0612 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSCGCT 1622 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG CGCT 1012 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG CGCT 1022 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXCGCT 2712 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXCGCT 2722 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN CGCT 1712 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2322   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2513   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2514   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2523   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2524   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2722   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   3522   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   3523   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0224   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACS  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWICC   1322   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  CC   0413   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  CC   0422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANOMOCC   0522   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   0422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1113   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1124   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPNECC   1422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
DSNY  CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
DSNY  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NYC   CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NYC   CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
LILC  CC   0113   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Total Annual Costs
Year: 2005

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| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOU | CC | 0622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU FLCC | | 1522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCC | | 1622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | CC | 1022 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | CC | 1023 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCC | | 1622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCC | | 0522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCC | | 2322 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCC | | 0522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 1022 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3613 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3623 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3624 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSMSCC | | 1613 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 2322 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 2722 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 3522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0812 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0813 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0823 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0824 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0722 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0723 | 000000 | 00 | RET2 | 170. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0823 | 000000 | 00 | RET2 | 493. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0812 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0813 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0823 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Total Annual Costs
Year: 2005

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MACE CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0121 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0221 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0222 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCC 0213 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCC 0223 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS CGCC 0223 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0412 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0413 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0422 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRCCFLCGCC 1513 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGCC 1522 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGCC 1523 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CGCC 0622 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CGCC 0623 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCGCC 0623 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCC 0322 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCC 0323 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CGCC 0622 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CGCC 0612 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CGCC 0622 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU FLCGCC 1522 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CGCC 1012 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CGCC 1013 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CGCC 1022 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCGCC 1912 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCGCC 1921 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCGCC 1922 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCGCC 2712 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCGCC 2722 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCC 1022 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCC 3622 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCC 3623 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CGCC 0811 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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CALI  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0813   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0823   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0722   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0723   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0813   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0823   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0813   000000 00     RET2          60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0823   000000 00     RET2         383.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCC 0811   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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CC Early Retirement           71            1213.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

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| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENG | STGAU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0911 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0921 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STGAU3221 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STGAU1511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STGAU1521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | STGAU0621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STGAU0611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STGAU0621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STGAU1621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STGAU1011 | 000000 | 00 | RET3 | 86. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STGAU1021 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STGAU1611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STGAU1711 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STGAU1721 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STGAU0511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STGAU0521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU1011 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU1021 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU3611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU3621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSMS | STGAU1611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2211 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU3511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | STGAU0811 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | STGAU0821 | 000000 | 00 | RET3 | 897. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | STGAU0811 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | STGAU0821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | STGAU0811 | 000000 | 00 | RET3 | 75. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.210
Total Annual Costs
Year: 2005

| | | |

NENG STHSU2822 000000 00 RET3 569. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3221 000000 00 RET3 567. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3222 000000 00 RET3 400. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHSTHSU2922 000000 00 RET3 406. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1511 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1521 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1522 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0621 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0622 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTHSU1621 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU2721 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU3421 000000 00 RET3 1410. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1711 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1712 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1721 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 RET3 467. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 RET3 105. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 RET3 23. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 RET3 68. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSN0121 000000 00 RET3 155. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSN3221 000000 00 RET3 566. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | STLSU1112 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1412 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1421 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1422 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC | STLSU0122 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU0922 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU2821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STLSU3221 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STLSU3222 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1512 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1522 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | STLSU0321 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | STLSU0322 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STLSU1621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STLSU1622 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STLSU1021 | 000000 | 00 | RET3 | 3240. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STLSU1022 | 000000 | 00 | RET3 | 3933. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STLSU1621 | 000000 | 00 | RET3 | 1552. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STLSU1622 | 000000 | 00 | RET3 | 356. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTX | STLSU1821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STLSU0512 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STLSU0521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STLSU0821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STLSU0822 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.212
Total Annual Costs
Year: 2005

| | | |

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CALI  STLSC0821   000000 00     RET3        4724.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0812   000000 00     RET3          13.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0821   000000 00     RET3        1433.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0822   000000 00     RET3         814.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCGGAU1811   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGGAU0221   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CGGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGGAU1511   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   CGGAU0611   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  CGGAU1011   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CGHSC2821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGLSN0821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSC1821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSC1921   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STHSC0821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STHSC0822   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO2521   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO3521   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2021   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2022   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STLSO0922   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STGAO0111   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAC0821   000000 00     RET3          86.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STHSD2821   000000 00     RET3         378.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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O/G Early Retirement          72          29276.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  TCOLU0411392050710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431152020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0211412050710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | Total | | Capital | | FOM | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | US$/kW/a | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| ECAO | TCOLU0231082020110 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0241082050710 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0411181050710 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0411142050710 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0431041020110 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0431141020110 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0431142020110 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0431182020110 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0431192020110 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0431042050710 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0611062020210 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0631051020110 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TCOLU0631202020110 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOVA | TCOLU0331062020110 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | TCOLU0211412050210 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | TCOLU0231031020310 | | 01 | | | | RET4 | | | | | | | | 151. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | TCOLU0231032020110 | | 01 | | | | RET4 | | | | | | | | 60. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | TCOLU0231412050710 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | TCOLU0241412050710 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | TCOLU0411392020710 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWIT | COLU1311162040310 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWIT | COLU1311162050710 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWIT | COLU1331392020110 | | 01 | | | | RET4 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TCOLU0431192020110 | | 01 | | | | RET4 | | | | | | | | 124. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

MANO TCOLU0442192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTCOLU0511282050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU0711312050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU0731311040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111261040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111271040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111261040310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111252020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111262050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131261040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131272020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131262020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311161010710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311162020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311162040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0131022020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TCOLU0911012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTCOLU1531132020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631041050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATCOLU0331092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731281020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total VOM MMUS$ | Total Fixed Costs mill/kWh | Capital US$/kW/a | FOM US$/kW/a | Total Capital MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPNMOTCOLU0511252050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTCOLU0511272050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTCOLU3531292050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI TCOLU0811372050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI TCOLU0832372050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811351020710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811402050110 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811342050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811352050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0831331020310 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TCOLU0811332050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TCOLU0831332050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TCOLN0131022020102 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTCOLN2931012020102 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLS0231411020703 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLS0611182020703 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLS0631041050303 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLS0231412050304 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITCOLS1231391020104 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TCOLS1111252020203 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTCOLS0641102050304 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATCOLS0331092050304 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW TABU 0711371030710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TABS 0631042050304 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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TVA   TSWBS0642202030303 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     RET4          93.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411181020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411182020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0611191020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     RET4         146.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     RET4          64.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOMDTOLBU0231082020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020110 01     RET4         196.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01     RET4          62.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01     RET4         126.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0232032050110 01     RET4          48.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1312162020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBU0432192010210 01     RET4         108.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTOLBU0532281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOTOLBU0512282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOTOLBU0532281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBU0632101020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBU0632102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1732282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| | | |

MAPP TSABU1141282010210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSABC2941011010101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABC0641232020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSABN0241032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABS0241032020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABS0841352020104 01 RET4 200. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| Unit Name | VOM | Total | Capital | FOM | Fixed Costs | Total Costs | Capacity Total [MW] | Gener. Total [GWh] | C.F. Total [%] | Variable Costs Fuel mill/kWh | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | |
| MANO TSASU0441202020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSASU1331162020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSASU1332162020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1041292020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1042292020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU1041292020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU3641282020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2341292020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2342292020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0832342020310 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241042020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0632061020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0632062020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0641062020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSBBU0441182020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSBBU0431042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112271020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112272040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 RET4 26. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSBBU0812341020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241041020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241042020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0231032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0241032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSBBN0141031010102 01 RET4 129. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSBBN0641102020102 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2241302020110 02 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2241302020410 02 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2242302020410 02 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPSDTSBLU0742261010110 02 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBSU0441392020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBSU2341292020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0432172010110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1432282020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1432282020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1441282020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1441282020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020510 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0431181020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0432181020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACE  TSCBU0131032020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBU0231032020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     RET4         438.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1131272010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1131252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     RET4          84.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0631102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1731282010310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0832342020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020510 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | Total | | | Capital | | FOM | | | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | |
| | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MAPP | TSCSU1141251020210 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSCSU1141252020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSCSU1141252020210 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSCSU1142252020210 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPPWIT | SCSU1342162020210 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSDBU0441392020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSDBU0641062020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOVAT | SDBU0341061020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOWV | TSDBU0641051010110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACSMDT | SDBU0241081020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWIT | SDBU1241162020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOILT | SDBU0441191020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOILT | SDBU0441192020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOT | SDBU0541252020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFLT | SDBU1541131020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFLT | SDBU1541132020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFLT | SDBU1541132020210 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANCT | SDBU0641102020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| TVA | TSDBU0641222020110 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| TVA | TSDBU0642222020210 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSDBC0641061020101 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOHT | SDBC0441041020101 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOHT | SDBC0441042020101 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANCT | SDBC0641101020101 | 01 | | RET4 | | | | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | 0.00 | 0.00 | 0.00 | | | | | | |

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ECAOOHTSDBN0441042020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0232032020110 01     RET4          83.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     RET4         128.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0632232020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020401 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2005

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | Total | | Capital | | FOM | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | |
| | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| ECAO | OHTSEBN0441142020102 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NENG | TSEBN2842012020102 | | | | | | 01 | | | RET4 | | | | | 81. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | OHTSEBS0431141010103 | | | | | | 01 | | | RET4 | | | | | 69. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSEBS1142252020103 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCC | FLTSEBS1541132020103 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | NDTSELU0742312010110 | | | | | | 02 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | NDTSELU0742312020110 | | | | | | 02 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSESU0441171010110 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSESU0441172020110 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSESU0441172010110 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSESU0441172020310 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSESU1141261010110 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SOU | TSESU0641111020210 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SOU | TSESU0641112020110 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SOU | TSESU0641112020210 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TSESU1741282020110 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| UPNY | TSFBO0141022020102 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFBU0431142020210 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFBU0432142020110 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFBU0432142020210 | | | | | | 01 | | | RET4 | | | | | 113. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFBU0441142020110 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | INTSFBU0441201010110 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | KYTSFBU0641201020210 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | KYTSFBU0641202020210 | | | | | | 01 | | | RET4 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

ECAOWVTSFBU0641041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 RET4 69. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBC0641112020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 RET4 153. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 RET4 74. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0511271040310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0511272020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2005

| | | |

MANOILTSHBU0441192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBC0241411020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBC0241412020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBC0641112020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 RET4 110. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISS0541272020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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SPPNMOTSLBU0531281020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSLBN2932012020102 01 RET4 48. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSLSU0712261020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0441142020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

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ERCTTXTSXLS2342302030303 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSLATSXLS1041302020103 02 RET4 650. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSXLS2341302020103 02 RET4 650. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS1941292020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS3541292020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSXSS3642282020104 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841351020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSXSS0832402020104 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0741322020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBU0432191010210 01 RET4 34. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0432192020204 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSYBS0441042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

MACE CGCOU0141012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0211412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0211412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0231412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0232412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1211162050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1311162050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOU0131022050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCOU0931012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CGCOU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0311092050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0331092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCOU0611112050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0811372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0831372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0832372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE CGCOU0731322050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| | | |

VACANCTSBBC0641101020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBA0341092020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSABA0141011020206 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSABA1541132020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAWVTSABA0641052020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSZBA0641051020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBA1541122020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSZBA0641052020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLA0641202020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLA0241052050705 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLA0411182020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA MSTCOLA1641242020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLA0541252020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLA0831402020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0332092020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBO0632102020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBS0441041020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSS0542282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PNW WATSBSS0741372020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSO1332392020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSDSS0541282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESS1741282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBN0641042020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBN0131022020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSFBA0241412020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2005

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSGBC0641102020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBN0441142020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACSMDTSHBO0241081010302 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBO0632102020202 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441041020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSJBO0412392020202 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBO0632102020202 01 RET4 | 122. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSKBC0641232020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBC0441181020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBC0441182020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBE0232041020207 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBE0242041020207 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSZBD0241032020707 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TCOLC0141012050301 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TCOLE0411391030308 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TCOLD0431182050307 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATCOLD0331092050308 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSCSA0541282020306 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSDBD2831012020107 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSFSC0441392020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSGSC0441201020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSIBC0441041020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ECAO  TSVBA0641201010105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441181020105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Coal Early Retirement         73            5516.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  NUKE 00    9000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2005

| | | |

```
ECAO  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCT  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCT  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs
Year: 2005

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | Total Costs | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Capacity | Gener. | C.F. | | | | Fuel | |
| | | | | | | | | | | | | Total | Total | | | | | | |
| Unit | Name | | | | | | | | | | | [MW] | [GWh] | [%] | | | | mill/kWh | mill/kWh |
| | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | |
| WUMS | NUKE | 00 | 8000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| NENG | NUKE | 00 | 8000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| NENG | NUKE | 00 | 8000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| ECAO | NUKE | 00 | 8000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| ECAO | NUKE | 00 | 8000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| SOU | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| SOU | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| AZNM | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| VACA | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| ECAO | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| VACA | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| ECAO | NUKE | 00 | 8000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| FRCC | NUKE | 00 | 8000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| SOU | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| UPNY | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| NENG | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| MACE | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| VACA | NUKE | 00 | 8000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| TVA | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| VACA | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| VACA | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| ERCT | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| ENTG | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |
| MACW | NUKE | 00 | 7000000 | 00 | RET5 | | | | | | | 0. | 0. | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | |

```
WUMS  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
Nuke Early Retirement         74                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Total                                     983134. 3888600.     45.2    11.12
 1.52 49132.71    12.64     0.34    29.18 29017.41 78150.12    20.10
(**) Industrial Boiler unitary costs per MBtu, not used in the total averages of
 unitary costs
```

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | | C.F. | | Fuel | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| | | | | | | | | | MMUS$ | | mill/kWh | US$/kW/a | US$/kW/a | | MMUS$ | MMUS$ | | mill/kWh | | | | | |
| ECAO | TSXBD0241041020207 | 01 | | | | | | | | | | | | | 171. | 1273. | | 85.0 | | 9.53 | | | |
| 3.85 | | | | | | | | | 17.04 | | 13.38 | 0.00 | 43.10 | | 7.37 | 24.41 | | 19.17 | | | | | |
| MACE | TSXBD0141031010107 | 01 | | | | | | | | | | | | | 155. | 1071. | | 78.9 | | 13.00 | | | |
| 3.85 | | | | | | | | | 18.05 | | 16.85 | 0.00 | 43.10 | | 6.68 | 24.73 | | 23.09 | | | | | |
| VACAVAT | SXBD0341092020307 | 01 | | | | | | | | | | | | | 882. | 6568. | | 85.0 | | 12.42 | | | |
| 3.85 | | | | | | | | | 106.85 | | 16.27 | 0.00 | 23.30 | | 20.55 | 127.41 | | 19.40 | | | | | |
| ECAO | TSYBA0441192020105 | 01 | | | | | | | | | | | | | 500. | 3723. | | 85.0 | | 8.09 | | | |
| 3.91 | | | | | | | | | 44.67 | | 12.00 | 0.00 | 36.20 | | 18.10 | 62.77 | | 16.86 | | | | | |
| ECAOOHT | SYBA0441041020105 | 01 | | | | | | | | | | | | | 2600. | 19360. | | 85.0 | | 8.59 | | | |
| 3.91 | | | | | | | | | 242.07 | | 12.50 | 0.00 | 43.30 | | 112.58 | 354.65 | | 18.32 | | | | | |
| UPNY | TSYBA0141022020105 | 01 | | | | | | | | | | | | | 675. | 5026. | | 85.0 | | 11.29 | | | |
| 3.91 | | | | | | | | | 76.40 | | 15.20 | 0.00 | 36.20 | | 24.44 | 100.84 | | 20.06 | | | | | |
| TVA KY | TSYBA0641201010105 | 01 | | | | | | | | | | | | | 1192. | 8876. | | 85.0 | | 7.61 | | | |
| 3.91 | | | | | | | | | 102.24 | | 11.52 | 0.00 | 43.50 | | 51.85 | 154.09 | | 17.36 | | | | | |
| ECAO | TSXBA0641202020105 | 01 | | | | | | | | | | | | | 1717. | 12785. | | 85.0 | | 7.73 | | | |
| 3.91 | | | | | | | | | 148.85 | | 11.64 | 0.00 | 33.00 | | 56.66 | 205.51 | | 16.07 | | | | | |
| ECAO | TSXBA0641202020205 | 01 | | | | | | | | | | | | | 600. | 4468. | | 85.0 | | 7.61 | | | |
| 3.91 | | | | | | | | | 51.46 | | 11.52 | 0.00 | 36.20 | | 21.72 | 73.18 | | 16.38 | | | | | |
| UPNY | TSXBA0141022020105 | 01 | | | | | | | | | | | | | 157. | 1169. | | 85.0 | | 11.74 | | | |
| 3.91 | | | | | | | | | 18.30 | | 15.65 | 0.00 | 43.50 | | 6.83 | 25.13 | | 21.49 | | | | | |
| FRCCFLT | SXBA1541122020105 | 01 | | | | | | | | | | | | | 441. | 3284. | | 85.0 | | 12.91 | | | |
| 3.91 | | | | | | | | | 55.22 | | 16.82 | 0.00 | 23.60 | | 10.41 | 65.63 | | 19.98 | | | | | |
| FRCCFLT | SXBA1541132020105 | 01 | | | | | | | | | | | | | 430. | 3202. | | 85.0 | | 10.21 | | | |
| 3.91 | | | | | | | | | 45.20 | | 14.12 | 0.00 | 43.30 | | 18.62 | 63.82 | | 19.93 | | | | | |
| VACA | TSXBA0641101020105 | 01 | | | | | | | | | | | | | 270. | 2010. | | 85.0 | | 12.99 | | | |
| 3.91 | | | | | | | | | 33.97 | | 16.90 | 0.00 | 43.30 | | 11.69 | 45.66 | | 22.71 | | | | | |
| VACA | TSXBA0641102020105 | 01 | | | | | | | | | | | | | 1100. | 8191. | | 85.0 | | 12.36 | | | |
| 3.91 | | | | | | | | | 133.30 | | 16.27 | 0.00 | 29.80 | | 32.78 | 166.08 | | 20.28 | | | | | |
| VACA | TSXBA0642101020105 | 01 | | | | | | | | | | | | | 270. | 2010. | | 85.0 | | 13.74 | | | |
| 3.91 | | | | | | | | | 35.48 | | 17.65 | 0.00 | 41.20 | | 11.12 | 46.61 | | 23.18 | | | | | |
| TVA | TSXBA0641221020105 | 01 | | | | | | | | | | | | | 2448. | 18229. | | 85.0 | | 8.70 | | | |
| 3.91 | | | | | | | | | 229.92 | | 12.61 | 0.00 | 43.30 | | 106.00 | 335.92 | | 18.43 | | | | | |
| TVA | TSXBA0641222020105 | 01 | | | | | | | | | | | | | 477. | 3552. | | 85.0 | | 8.81 | | | |
| 3.91 | | | | | | | | | 45.18 | | 12.72 | 0.00 | 43.50 | | 20.75 | 65.93 | | 18.56 | | | | | |
| TVA | TSXBA0641222020705 | 01 | | | | | | | | | | | | | 467. | 3477. | | 85.0 | | 8.86 | | | |
| 3.91 | | | | | | | | | 44.41 | | 12.77 | 0.00 | 43.50 | | 20.31 | 64.72 | | 18.61 | | | | | |
| VACAVAT | SBBA0341092020105 | 01 | | | | | | | | | | | | | 373. | 2777. | | 85.0 | | 11.49 | | | |
| 3.91 | | | | | | | | | 42.77 | | 15.40 | 0.00 | 43.50 | | 16.23 | 59.00 | | 21.24 | | | | | |
| MACE | TSABA0141011020206 | 01 | | | | | | | | | | | | | 0. | 0. | | N/A | | 0.00 | | | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | 0.00 | 43.50 | | 0.00 | 0.00 | | 0.00 | | | | | |
| FRCCFLT | SABA1541132020105 | 01 | | | | | | | | | | | | | 842. | 6270. | | 85.0 | | 12.69 | | | |
| 3.91 | | | | | | | | | 104.10 | | 16.60 | 0.00 | 43.30 | | 36.46 | 140.56 | | 22.42 | | | | | |
| VACAWV | TSABA0641052020105 | 01 | | | | | | | | | | | | | 1066. | 7938. | | 85.0 | | 8.41 | | | |
| 3.91 | | | | | | | | | 97.83 | | 12.32 | 0.00 | 43.50 | | 46.37 | 144.20 | | 18.17 | | | | | |
| ECAO | TSZBA0641051020105 | 01 | | | | | | | | | | | | | 1920. | 14297. | | 85.0 | | 8.22 | | | |
| 3.91 | | | | | | | | | 173.48 | | 12.13 | 0.00 | 43.30 | | 83.14 | 256.62 | | 17.95 | | | | | |
| FRCCFLT | SZBA1541122020105 | 01 | | | | | | | | | | | | | 439. | 3269. | | 85.0 | | 11.79 | | | |
| 3.91 | | | | | | | | | 51.31 | | 15.70 | 0.00 | 36.20 | | 15.89 | 67.20 | | 20.56 | | | | | |

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VACA  TSZBA0641052020105 01                    521.    3880.     85.0     8.52
 3.91    48.20    12.43     0.00    43.30    22.56    70.76    18.24
ECAO  TCOLA0641202020105 01                    268.    1996.     85.0     6.88
 3.91    21.54    10.79     0.00    23.60     6.32    27.87    13.96
MACW  TCOLA0241052050705 01                    520.    3872.     85.0     7.82
 3.91    45.41    11.73     0.00    23.60    12.27    57.68    14.90
MANO  TCOLA0411182020105 01                     18.     134.     85.0     7.40
 3.91     1.52    11.31     0.00    23.60     0.42     1.94    14.48
TVA MSTCOLA1641242020105 01                    440.    3276.     85.0    10.39
 3.91    46.85    14.30     0.00    23.60    10.38    57.23    17.47
SPPNMOTCOLA0541252020105 01                    540.    4021.     85.0     7.81
 3.91    47.13    11.72     0.00    23.60    12.74    59.87    14.89
RMPA  TCOLA0831402020105 01                     80.     596.     85.0     7.05
 3.91     6.53    10.96     0.00    23.60     1.89     8.42    14.13
MACW  TSFBA0241412020105 01                    650.    4840.     85.0     9.40
 3.91    64.40    13.31     0.00    43.30    28.14    92.55    19.12
ECAO  TSXBE0232041020207 01                    194.    1085.     63.9    11.09
 3.85    16.21    14.94     0.00    43.30     8.40    24.61    22.68
ECAO  TSXBE0242041020207 01                    109.     753.     78.9     9.88
 3.85    10.34    13.73     0.00    43.30     4.72    15.06    19.99
MACE  TSZBD0241032020707 01                    144.     995.     78.9    13.59
 3.85    17.36    17.44     0.00    43.10     6.21    23.57    23.68
MECS  TCOLE0411391030308 01                     20.     149.     85.0    12.23
 3.85     2.39    16.08     0.00    43.30     0.87     3.26    21.89
MANO  TCOLD0431182050307 01                     42.     313.     85.0     8.56
 3.85     3.88    12.41     0.00    23.30     0.98     4.86    15.53
VACAVATCOLD0331092050308 01                     57.     424.     85.0    12.42
 3.85     6.91    16.27     0.00    23.30     1.33     8.23    19.40
SPPNMOTSCSA0541282020306 01                    550.    4095.     85.0     9.30
 3.91    54.10    13.21     0.00    43.30    23.82    77.91    19.02
NENG  TSDBD2831012020107 01                     78.     581.     85.0    14.40
 3.85    10.60    18.25     0.00    43.10     3.36    13.96    24.04
ECAO  TSVBA0641201010105 01                    141.    1050.     85.0     7.66
 3.91    12.15    11.57     0.00    43.50     6.13    18.28    17.42
ECAOINTSVBA0441181020105 01                    619.    4609.     85.0     8.32
 3.91    56.37    12.23     0.00    36.20    22.41    78.77    17.09
ECAOINTSVBA0441182020105 01                    865.    6441.     85.0     8.22
 3.91    78.11    12.13     0.00    41.80    36.16   114.26    17.74
MACE  TSDBA0141011020206 01                    642.    4437.     78.9    12.81
 3.91    74.17    16.72     0.00    43.50    27.93   102.09    23.01
TVA KYTSEBA0641201010105 01                    977.    7275.     85.0     7.70
 3.91    84.49    11.61     0.00    43.30    42.30   126.80    17.43
NENG  CPC  1     (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CPC  1     (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCPC  32    (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCPC  32    (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CPC  1     (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CPC  1     (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CPC  1     (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CPC  1     (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CPC  1     (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CPC  1     (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXCPC | 19 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCPC | 19 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCPC | 6 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCPC | 6 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Total Annual Costs
Year: 2010

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs
Total Costs
VOM Total Capital FOM Capacity Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
ENTG CPC 8 (b) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOCPC 5 (a) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOCPC 5 (b) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CPC 1 (a) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CPC 1 (b) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CPC 8 (a) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CPC 8 (b) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Scrubbed Coal_NOx 1 26667. 197649. 84.6 9.38 3.91 2626.77 13.29 0.00 38.85 1035.89 3662.66 18.53

ECAO TCOLS0231411020703 01 176. 1098. 71.2 9.99 2.94 14.19 12.93 0.00 43.00 7.57 21.76 19.82
ECAO TCOLS0611182020703 01 53. 395. 85.0 8.56 2.94 4.54 11.50 0.00 43.00 2.28 6.82 17.27
ECAO TCOLS0631041050303 01 84. 581. 78.9 10.08 2.94 7.56 13.02 0.00 23.10 1.94 9.50 16.36
MACW TCOLS0231412050304 01 32. 238. 85.0 9.99 2.94 3.08 12.93 0.00 23.10 0.74 3.82 16.03
WUMSWITCOLS1231391020104 01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 43.00 0.00 0.00 0.00
MAPP TCOLS1111252020203 01 76. 566. 85.0 11.07 2.94 7.93 14.01 0.00 43.00 3.27 11.20 19.78
VACANCTCOLS0641102050304 01 167. 1244. 85.0 13.64 2.94 20.62 16.58 0.00 23.10 3.86 24.48 19.68
VACAVATCOLS0331092050304 01 35. 261. 85.0 12.42 2.94 4.00 15.36 0.00 23.10 0.81 4.81 18.46
VACA TABS 0631042050304 01 74. 551. 85.0 9.46 2.94 6.83 12.40 0.00 23.10 1.71 8.54 15.50
TVA TSWBS0642202030303 01 124. 923. 85.0 8.15 2.94 10.24 11.09 0.00 23.10 2.86 13.10 14.19
MAPP TSWLS0732312030103 02 74. 414. 63.9 11.70 2.94 6.06 14.64 0.00 43.00 3.18 9.24 22.32
MAPP TSWSS1132261030103 01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 35.60 0.00 0.00 0.00
ECAOOHTOLBS0432142020304 01 49. 274. 63.9 12.58 2.94 4.25 15.52 0.00 42.70 2.09 6.35 23.15
WUMSWITOLBS1312162030304 01 22. 164. 85.0 11.68 2.94 2.40 14.62 0.00 43.00 0.95 3.34 20.40
MANO TOLBS0432191010103 01 86. 640. 85.0 8.68
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 2.94     7.44    11.62     0.00    42.70     3.67    11.11    17.35
MANO  TOLBS0432192010203 01                    88.     655.     85.0     8.69
 2.94     7.62    11.63     0.00    42.70     3.76    11.38    17.37
RMPA  TRRBS0832342030304 01                   100.     745.     85.0     9.76
 2.94     9.46    12.70     0.00    23.10     2.31    11.77    15.81
MACWPATSABS0241032020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01                   158.    1177.     85.0     8.48
 2.94    13.43    11.42     0.00    43.00     6.79    20.22    17.19
RMPA  TSABS0841341020304 01                   107.     797.     85.0     8.43
 2.94     9.06    11.37     0.00    43.00     4.60    13.66    17.15
RMPA  TSABS0841342020303 01                   352.    2621.     85.0     8.06
 2.94    28.82    11.00     0.00    42.70    15.03    43.85    16.73
RMPA  TSABS0841342020304 01                   446.    3321.     85.0     8.80
 2.94    38.99    11.74     0.00    42.80    19.09    58.08    17.49
NWPE  TSABS0841352020104 01                  1380.    9017.     74.6    13.13
 2.94   144.87    16.07     0.00    42.70    58.91   203.78    22.60
ECAOOHTSEBS0431141010103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
MAPP  TSEBS1142252020103 01                   217.    1214.     63.9    11.36
 2.94    17.36    14.30     0.00    43.00     9.33    26.69    21.98
FRCCFLTSEBS1541132020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    42.70     0.00     0.00     0.00
WUMSWITSGBS1231392020104 01                    80.     448.     63.9    12.08
 2.94     6.72    15.02     0.00    43.00     3.44    10.16    22.71
MANOILTSGBS0412191020703 01                    22.     164.     85.0     9.17
 2.94     1.98    12.11     0.00    43.00     0.95     2.93    17.89
FRCCFLTSGBS1531132020103 01                    88.     655.     85.0    13.75
 2.94    10.94    16.69     0.00    43.00     3.78    14.72    22.47
FRCCFLTSGBS1532132020103 01                    87.     648.     85.0    14.29
 2.94    11.16    17.23     0.00    43.00     3.74    14.90    23.00
FRCCFLTSGBS1541132020103 01                   356.    2651.     85.0    11.00
 2.94    36.95    13.94     0.00    43.00    15.31    52.26    19.71
MAPP  TSISS1132262020703 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
MAPP  TSISS1141262020703 01                   350.    2183.     71.2    11.67
 2.94    31.89    14.61     0.00    42.70    14.95    46.84    21.46
ENTGMOTSISS0541272020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    35.60     0.00     0.00     0.00
SPPNMOTSUBS0541272020103 01                   178.    1110.     71.2    10.94
 2.94    15.41    13.88     0.00    42.70     7.60    23.01    20.72
AZNM  TSUBS0841361020203 01                   365.    2718.     85.0    11.17
 2.94    38.35    14.11     0.00    40.60    14.82    53.17    19.56
AZNM  TSUBS0841352020203 01                  2250.   16754.     85.0    12.33
 2.94   255.83    15.27     0.00    42.70    96.08   351.90    21.00
AZNM  TSUBS0841362020203 01                  1095.    8154.     85.0    11.27
 2.94   115.84    14.21     0.00    40.60    44.46   160.30    19.66
AZNM  TSUBS0841362020304 01                   720.    5361.     85.0     9.84
 2.94    68.54    12.78     0.00    29.40    21.17    89.71    16.73
AZNM  TSUBS0841362020703 01                   355.    2643.     85.0    11.34
 2.94    37.74    14.28     0.00    41.30    14.66    52.41    19.83
RMPA  TSUBS0841332020304 01                   262.    1951.     85.0     7.24
 2.94    19.86    10.18     0.00    35.60     9.33    29.19    14.96
RMPA  TSUBS0842332020203 01                   856.    6374.     85.0     7.35
 2.94    65.61    10.29     0.00    40.60    34.75   100.37    15.75
RMPA  TSUBS0842332020304 01                   519.    3865.     85.0     7.35
 2.94    39.75    10.29     0.00    41.10    21.33    61.08    15.80
ECAO  TSVBS0641201020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    42.70     0.00     0.00     0.00
ECAO  TSVBS0641202020103 01                   401.    2986.     85.0     7.18
 2.94    30.21    10.12     0.00    42.70    17.12    47.34    15.85
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Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| Unit | Name | VOM | Total | Capital | FOM | Total | MMUS$ | MMUS$ | mill/kWh | mill/kWh | MMUS$ | MMUS$ | mill/kWh | mill/kWh | mill/kWh | | | | |
| ECAO | INTSVBS0431182020103 | 01 | | | | | 85. | 633. | 85.0 | 7.39 | 2.94 | 6.54 | 10.33 | 0.00 | 43.00 | 3.65 | 10.19 | 16.10 | |
| ECAO | INTSVBS0432181020103 | 01 | | | | | 90. | 670. | 85.0 | 9.64 | 2.94 | 8.43 | 12.58 | 0.00 | 43.00 | 3.87 | 12.30 | 18.36 | |
| ECAO | INTSVBS0441181010103 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.80 | 0.00 | 0.00 | 0.00 | |
| ECAO | INTSVBS0441182020103 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.10 | 0.00 | 0.00 | 0.00 | |
| MECS | TSXBS0432392020103 | 01 | | | | | 65. | 449. | 78.9 | 12.95 | 2.94 | 7.14 | 15.89 | 0.00 | 35.60 | 2.31 | 9.45 | 21.04 | |
| MECS | TSXBS0432392020203 | 01 | | | | | 50. | 312. | 71.2 | 13.76 | 2.94 | 5.21 | 16.70 | 0.00 | 35.60 | 1.78 | 6.99 | 22.40 | |
| ECAO | TSXBS0241042020103 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.20 | 0.00 | 0.00 | 0.00 | |
| ECAO | TSXBS0241042020703 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.70 | 0.00 | 0.00 | 0.00 | |
| ECAO | TSXBS0242412020703 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 43.00 | 0.00 | 0.00 | 0.00 | |
| ECAO | TSXBS0441142020103 | 01 | | | | | 750. | 5585. | 85.0 | 11.48 | 2.94 | 80.56 | 14.42 | 0.00 | 41.70 | 31.28 | 111.83 | 20.02 | |
| ECAO | TSXBS0641201020103 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.80 | 0.00 | 0.00 | 0.00 | |
| ECAO | TSXBS0641042020103 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 40.60 | 0.00 | 0.00 | 0.00 | |
| ECAO | TSXBS0641202020103 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 41.80 | 0.00 | 0.00 | 0.00 | |
| ECAO | TSXBS0642201020103 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 43.00 | 0.00 | 0.00 | 0.00 | |
| WUMS | TSXBS0432392020304 | 01 | | | | | 44. | 274. | 71.2 | 14.15 | 2.94 | 4.69 | 17.09 | 0.00 | 35.60 | 1.57 | 6.26 | 22.80 | |
| MANO | TSXBS0441191020103 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 42.70 | 0.00 | 0.00 | 0.00 | |
| MANO | TSXBS0441192020103 | 01 | | | | | 190. | 1415. | 85.0 | 8.21 | 2.94 | 15.77 | 11.15 | 0.00 | 40.60 | 7.71 | 23.48 | 16.60 | |
| MAPP | TSXBS1142272020103 | 01 | | | | | 161. | 1113. | 78.9 | 12.44 | 2.94 | 17.11 | 15.38 | 0.00 | 35.60 | 5.73 | 22.84 | 20.53 | |
| UPNY | TSXBS0141022020103 | 01 | | | | | 149. | 1109. | 85.0 | 11.66 | 2.94 | 16.20 | 14.60 | 0.00 | 43.00 | 6.41 | 22.60 | 20.37 | |
| VACA | TSXBS0641101020103 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.60 | 0.00 | 0.00 | 0.00 | |
| VACA | TSXBS0641102020304 | 01 | | | | | 385. | 2867. | 85.0 | 13.42 | 2.94 | 46.91 | 16.36 | 0.00 | 23.10 | 8.89 | 55.80 | 19.46 | |
| SOU | TSXBS0641222020203 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 40.60 | 0.00 | 0.00 | 0.00 | |
| SOU | TSXBS0642112020103 | 01 | | | | | 102. | 760. | 85.0 | 15.04 | 2.94 | 13.66 | 17.98 | 0.00 | 43.00 | 4.39 | 18.04 | 23.76 | |
| SOU | MSTSXBS1641291020203 | 01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 40.60 | 0.00 | 0.00 | 0.00 | |

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SOU MSTSXBS1641292020203 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    40.60     0.00     0.00     0.00
AZNM  TSXBS0841362020303 01                  275.    2048.     85.0    11.37
 2.94    29.31    14.31     0.00    35.60     9.79    39.10    19.10
AZNM  TSXBS0841362020703 01                  220.    1638.     85.0    11.48
 2.94    23.63    14.42     0.00    42.80     9.42    33.05    20.17
AZNM  TSXBS0842362020703 01                  110.     819.     85.0    11.92
 2.94    12.17    14.86     0.00    42.70     4.70    16.87    20.60
NWPE  TSXBS0841332020103 01                 1250.    9308.     85.0     6.84
 2.94    91.03     9.78     0.00    41.30    51.63   142.66    15.33
NWPE  TSXBS0841402020103 01                 2410.   17946.     85.0     7.88
 2.94   194.11    10.82     0.00    42.30   101.94   296.05    16.50
NWPE  TSXBS0841332020303 01                 2440.   18169.     85.0     6.83
 2.94   177.43     9.77     0.00    35.60    86.86   264.29    14.55
NWPE  TSXBS0841362020304 01                  274.    1915.     79.8    10.95
 2.94    26.60    13.89     0.00    35.60     9.75    36.35    18.98
ERCTTXTSXLS2341302020103 02                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    35.60     0.00     0.00     0.00
ERCTTXTSXLS2342302020103 02                 4152.   24763.     68.1    13.69
 2.94   411.83    16.63     0.00    41.00   170.24   582.06    23.51
ERCTTXTSXLS2342302030303 02                  300.    2234.     85.0    13.23
 2.94    36.12    16.17     0.00    23.10     6.93    43.05    19.27
MAPPNDTSXLS0732312020304 02                   69.     514.     85.0     9.54
 2.94     6.41    12.48     0.00    35.60     2.46     8.87    17.26
MAPPNDTSXLS0741311020103 02                  604.    4174.     78.9     9.14
 2.94    50.44    12.08     0.00    40.60    24.52    74.96    17.96
MAPPNDTSXLS0742311010103 02                  420.    3127.     85.0    10.20
 2.94    41.09    13.14     0.00    42.70    17.93    59.02    18.87
MAPPNDTSXLS0742312010304 02                  421.    2910.     78.9     9.99
 2.94    37.63    12.93     0.00    35.60    14.99    52.62    18.08
MAPPNDTSXLS0742312020304 02                  900.    6702.     85.0     9.62
 2.94    84.21    12.56     0.00    35.60    32.04   116.25    17.35
SPPSLATSXLS1041302020103 02                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    35.60     0.00     0.00     0.00
SPPSTXTSXLS2341302020103 02                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    35.60     0.00     0.00     0.00
ERCTTXTSXSS1941292020303 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    35.60     0.00     0.00     0.00
ERCTTXTSXSS2341292020103 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    35.60     0.00     0.00     0.00
ERCTTXTSXSS2341292020303 01                  530.    3947.     85.0    12.70
 2.94    61.71    15.64     0.00    23.10    12.24    73.95    18.74
ERCTTXTSXSS3541292020103 01                  676.    5034.     85.0    12.97
 2.94    80.08    15.91     0.00    35.60    24.07   104.15    20.69
SPPS  TSXSS3642282020104 01                  520.    3872.     85.0     9.69
 2.94    48.90    12.63     0.00    35.60    18.51    67.41    17.41
AZNM  TSXSS0841351020303 01                 1480.   11021.     85.0    11.46
 2.94   158.68    14.40     0.00    42.70    63.20   221.88    20.13
AZNM  TSXSS0841352020203 01                  498.    3708.     85.0    12.32
 2.94    56.60    15.26     0.00    35.60    17.73    74.33    20.04
AZNM  TSXSS0841352020303 01                  235.    1750.     85.0    12.34
 2.94    26.74    15.28     0.00    35.60     8.37    35.11    20.06
AZNM  TSXSS0842351020203 01                  312.    2323.     85.0    15.26
 2.94    42.29    18.20     0.00    42.70    13.32    55.61    23.94
AZNM  TSXSS0842351020703 01                  220.    1638.     85.0    13.08
 2.94    26.25    16.02     0.00    43.00     9.46    35.71    21.80
AZNM  TSXSS0842352020203 01                  804.    5987.     85.0    14.07
 2.94   101.85    17.01     0.00    41.50    33.37   135.21    22.59
AZNM  TSXSS0842352020703 01                  340.    2532.     85.0    12.75
 2.94    39.72    15.69     0.00    43.00    14.62    54.34    21.47
RMPA  TSXSS0832402020104 01                   80.     596.     85.0     9.36
 2.94     7.33    12.30     0.00    23.10     1.85     9.17    15.40
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Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | Total | | | Capital | | FOM | | | Total | | | | | Total | | | | | | | |
| Unit | Name | | | | | | | | | | [MW] | | | | [GWh] | | [%] | | mill/kWh | | | mill/kWh | |
| | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | MMUS$ | | | | MMUS$ | | mill/kWh | | | | | | |
| NWPE | TSXSS0741322020703 | | | | | | | | | | 700. | | | | 5212. | | 85.0 | | 6.01 | | | | |
| 2.94 | | 46.64 | | 8.95 | | 0.00 | | 35.60 | | | 24.92 | | | | 71.56 | | 13.73 | | | | | | |
| NWPE | TSXSS0742322020703 | | | | | | | | | | 1360. | | | | 10127. | | 85.0 | | 6.69 | | | | |
| 2.94 | | 97.53 | | 9.63 | | 0.00 | | 41.60 | | | 56.58 | | | | 154.10 | | 15.22 | | | | | | |
| ECAO | TSYBS0432192020204 | | | | | | | | | | 63. | | | | 469. | | 85.0 | | 10.36 | | | | |
| 2.94 | | 6.24 | | 13.30 | | 0.00 | | 42.70 | | | 2.69 | | | | 8.93 | | 19.03 | | | | | | |
| ECAO | TSYBS0441192020103 | | | | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 35.60 | | | 0.00 | | | | 0.00 | | 0.00 | | | | | | |
| ECAOOH | TSYBS0441042020103 | | | | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 23.10 | | | 0.00 | | | | 0.00 | | 0.00 | | | | | | |
| MACW | TSYBS0241412020103 | | | | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 42.70 | | | 0.00 | | | | 0.00 | | 0.00 | | | | | | |
| MANO | TSYBS0441191010103 | | | | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 40.60 | | | 0.00 | | | | 0.00 | | 0.00 | | | | | | |
| SPPN | TSYBS1741281010703 | | | | | | | | | | 682. | | | | 5078. | | 85.0 | | 11.11 | | | | |
| 2.94 | | 71.37 | | 14.05 | | 0.00 | | 42.70 | | | 29.12 | | | | 100.49 | | 19.79 | | | | | | |
| SPPN | TSYBS1741282020703 | | | | | | | | | | 370. | | | | 2755. | | 85.0 | | 10.78 | | | | |
| 2.94 | | 37.81 | | 13.72 | | 0.00 | | 42.70 | | | 15.80 | | | | 53.61 | | 19.46 | | | | | | |
| SPPN | TSYBS1742282020703 | | | | | | | | | | 113. | | | | 781. | | 78.9 | | 12.09 | | | | |
| 2.94 | | 11.74 | | 15.03 | | 0.00 | | 43.00 | | | 4.86 | | | | 16.60 | | 21.25 | | | | | | |
| MAPP | TSYSS1141262020304 | | | | | | | | | | 871. | | | | 6486. | | 85.0 | | 10.67 | | | | |
| 2.94 | | 88.27 | | 13.61 | | 0.00 | | 35.60 | | | 31.01 | | | | 119.27 | | 18.39 | | | | | | |
| MAPP | TSYSS1142262020203 | | | | | | | | | | 535. | | | | 3697. | | 78.9 | | 11.61 | | | | |
| 2.94 | | 53.80 | | 14.55 | | 0.00 | | 40.60 | | | 21.72 | | | | 75.52 | | 20.42 | | | | | | |
| MAPP | TSYSS1142262020703 | | | | | | | | | | 1424. | | | | 10384. | | 83.2 | | 11.37 | | | | |
| 2.94 | | 148.58 | | 14.31 | | 0.00 | | 42.70 | | | 60.80 | | | | 209.39 | | 20.16 | | | | | | |
| SPPN | TSYSS1741282020304 | | | | | | | | | | 331. | | | | 2465. | | 85.0 | | 9.30 | | | | |
| 2.94 | | 30.17 | | 12.24 | | 0.00 | | 35.60 | | | 11.78 | | | | 41.95 | | 17.02 | | | | | | |
| SPPN | TSYSS1742282020103 | | | | | | | | | | 2136. | | | | 15905. | | 85.0 | | 10.11 | | | | |
| 2.94 | | 207.58 | | 13.05 | | 0.00 | | 40.60 | | | 86.72 | | | | 294.30 | | 18.50 | | | | | | |
| ECAO | TSZBS0431142010103 | | | | | | | | | | 69. | | | | 430. | | 71.2 | | 11.95 | | | | |
| 2.94 | | 6.41 | | 14.89 | | 0.00 | | 43.00 | | | 2.97 | | | | 9.37 | | 21.78 | | | | | | |
| MACE | TSZBS0241032020203 | | | | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 42.90 | | | 0.00 | | | | 0.00 | | 0.00 | | | | | | |
| FRCCFL | TSZBS1541121020103 | | | | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 35.60 | | | 0.00 | | | | 0.00 | | 0.00 | | | | | | |
| FRCCFL | TSZBS1541122020103 | | | | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 35.60 | | | 0.00 | | | | 0.00 | | 0.00 | | | | | | |
| MAPPWY | TSZLS0841322020103 | | | | | | | | | | 550. | | | | 4095. | | 85.0 | | 6.03 | | | | |
| 2.94 | | 36.72 | | 8.97 | | 0.00 | | 40.60 | | | 22.33 | | | | 59.05 | | 14.42 | | | | | | |
| RMPAWY | TSZLS0841322020103 | | | | | | | | | | 1100. | | | | 8191. | | 85.0 | | 5.99 | | | | |
| 2.94 | | 73.17 | | 8.93 | | 0.00 | | 35.60 | | | 39.16 | | | | 112.33 | | 13.71 | | | | | | |
| NWPEWY | TSZLS0841322020703 | | | | | | | | | | 330. | | | | 2457. | | 85.0 | | 6.38 | | | | |
| 2.94 | | 22.91 | | 9.32 | | 0.00 | | 42.70 | | | 14.09 | | | | 37.00 | | 15.06 | | | | | | |
| NWPEWY | TSZLS0842322020104 | | | | | | | | | | 335. | | | | 2495. | | 85.0 | | 7.10 | | | | |
| 2.94 | | 25.04 | | 10.04 | | 0.00 | | 40.60 | | | 13.60 | | | | 38.64 | | 15.49 | | | | | | |
| MAPP | TSASS0732312020703 | | | | | | | | | | 44. | | | | 328. | | 85.0 | | 11.06 | | | | |
| 2.94 | | 4.59 | | 14.00 | | 0.00 | | 43.00 | | | 1.89 | | | | 6.48 | | 19.78 | | | | | | |

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RMPA  TSASS0841342020303 01                    178.    1325.     85.0     8.77
 2.94    15.52    11.71     0.00    43.00     7.65    23.18    17.48
ECAOOHTSBBS0441041020304 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01                    308.    1921.     71.2    10.34
 2.94    25.51    13.28     0.00    43.00    13.24    38.76    20.17
PNW WATSBSS0741372020103 01                   1340.    9978.     85.0     9.52
 2.94   124.36    12.46     0.00    42.70    57.22   181.58    18.20
SPPNMOTSDSS0541282020103 01                    601.    4472.     85.0     8.97
 2.94    53.26    11.91     0.00    40.60    24.38    77.64    17.36
SPPN  TSESS1741282020103 01                    668.    4974.     85.0     9.65
 2.94    62.62    12.59     0.00    42.70    28.52    91.15    18.32
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Scrubbed Coal                    2           47602.  343445.     82.4    10.16
 2.94  4499.75    13.10     0.00    39.64  1886.81  6386.56    18.60

UPNY  TCOLN0131022020102 01                     47.     350.     85.0    15.37
 2.45     6.24    17.82     0.00    32.20     1.51     7.75    22.15
NENGNHTCOLN2931012020102 01                     97.     546.     64.2    16.00
 2.45    10.07    18.45     0.00    32.20     3.12    13.19    24.17
NENGNHTSABC2941011010101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.40     0.00     0.00     0.00
VACANCTSABC0641101020201 01                    275.    1902.     78.9    13.67
 2.51    30.76    16.18     0.00    23.00     6.33    37.09    19.50
SOU ALTSABC0641232020101 01                   1341.    9985.     85.0    12.45
 2.51   149.41    14.96     0.00    12.20    16.36   165.77    16.60
MACEDETSABN0241032020102 01                    403.    2514.     71.2    16.44
 2.45    47.49    18.89     0.00    22.60     9.11    56.60    22.52
ECAO  TSBBN0241041020102 01                    316.    1969.     71.2    11.32
 2.45    27.11    13.77     0.00    26.60     8.40    35.50    18.04
ECAO  TSBBN0241042020102 01                    343.    2139.     71.2    11.57
 2.45    29.99    14.02     0.00    32.20    11.04    41.04    19.18
MACE  TSBBN0231032020102 01                     84.     524.     71.2    16.53
 2.45     9.94    18.98     0.00    32.20     2.70    12.65    24.14
MACE  TSBBN0241032020102 01                    167.    1042.     71.2    15.59
 2.45    18.79    18.04     0.00    32.20     5.38    24.17    23.20
MACENJTSBBN0141031010102 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.20     0.00     0.00     0.00
VACANCTSBBN0641102020102 01                    514.    3552.     78.9    13.61
 2.45    57.05    16.06     0.00    32.20    16.55    73.60    20.72
VACAVATSBBN0341091020102 01                    389.    2426.     71.2    15.17
 2.45    42.74    17.62     0.00    32.20    12.53    55.27    22.78
VACAVATSBBN0341092020102 01                    159.    1099.     78.9    13.55
 2.45    17.58    16.00     0.00    32.20     5.12    22.70    20.65
VACAVATSBBN0341092020202 01                    156.    1078.     78.9    14.50
 2.45    18.27    16.95     0.00    32.20     5.02    23.30    21.61
MACEDETSCBN0241032020102 01                    162.    1010.     71.2    14.77
 2.45    17.40    17.22     0.00    26.60     4.31    21.71    21.48
MANO  TSCSO0441182010102 01                    292.    1634.     63.9    12.38
 1.54    22.75    13.92     0.00    32.30     9.43    32.18    19.70
ECAO  TSDBC0641061020101 01                    714.    5319.     85.0     9.86
 2.51    65.80    12.37     0.00    27.00    19.29    85.08    16.00
ECAOOHTSDBC0441041020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01                    163.     912.     63.9     9.13
 2.45    10.56    11.58     0.00    32.20     5.25    15.81    17.33
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.233
Total Annual Costs
Year: 2010

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VACANCTSBBC0641102020101 01                    354.    2447.     78.9    13.69
 2.51    39.63    16.20     0.00    27.00     9.56    49.19    20.10
VACAVATSBBC0341092020101 01                   1150.    8563.     85.0    13.96
 2.51   141.05    16.47     0.00    29.30    33.70   174.75    20.41
MACEVATOLBO0332092020202 01                    176.     985.     63.9    17.57
 1.54    18.82    19.11     0.00    32.30     5.68    24.50    24.88
MACEVATOLBO0341092020202 01                    306.    2115.     78.9    14.31
 1.54    33.51    15.85     0.00    32.30     9.88    43.39    20.52
VACANCTOLBO0632102020202 01                     76.     364.     54.6    15.53
 1.54     6.21    17.07     0.00    32.30     2.45     8.67    23.82
ECAOOHTSCBC0441041020101 01                    500.    3456.     78.9    12.00
 2.51    50.14    14.51     0.00    23.00    11.50    61.64    17.84
TVA   TSCBC0641212020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
TVA   TSCBC0641212020201 01                   1434.   10678.     85.0    11.41
 2.51   148.63    13.92     0.00    32.60    46.75   195.38    18.30
WUMSWITSDSO1332392020102 01                     82.     392.     54.6    13.29
 1.54     5.82    14.83     0.00    32.30     2.65     8.47    21.58
ECAOWVTSFBN0641042020102 01                    555.    3462.     71.2    10.51
 2.45    44.87    12.96     0.00    26.60    14.76    59.64    17.23
UPNY  TSFBN0131022020102 01                    210.    1564.     85.0    14.56
 2.45    26.60    17.01     0.00    32.20     6.76    33.36    21.33
VACANCTSGBC0641102020101 01                    562.    3884.     78.9    14.33
 2.51    65.40    16.84     0.00    27.00    15.17    80.57    20.74
ECAOOHTSGBN0441142020102 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.60     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01                    380.    2370.     71.2    13.47
 1.54    35.57    15.01     0.00    32.30    12.27    47.84    20.18
VACA  TSHBO0632102020202 01                    200.    1119.     63.9    16.52
 1.54    20.22    18.06     0.00    32.30     6.46    26.68    23.84
ECAO  TSHBN0441041020102 01                    600.    3502.     66.6    11.76
 2.45    49.77    14.21     0.00    26.60    15.96    65.73    18.77
ECAO  TSHBN0441042020102 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.60     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01                    180.    1123.     71.2    12.36
 2.45    16.63    14.81     0.00    32.20     5.80    22.43    19.98
MECS  TSJBO0412392020202 01                     20.     149.     85.0    12.05
 1.54     2.02    13.59     0.00    32.30     0.65     2.67    17.93
VACANCTSKBO0632102020202 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.30     0.00     0.00     0.00
SOU   TSKBC0641232020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAO  TSLBC0441181020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAO  TSLBC0441182020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    23.00     0.00     0.00     0.00
MACE  TCOLC0141012050301 01                    200.    1247.     71.2    18.25
 2.51    25.90    20.76     0.00    12.20     2.44    28.34    22.72
MECSMITSFSC0441392020101 01                   3000.   22339.     85.0    11.38
 2.51   310.35    13.89     0.00    27.00    81.00   391.35    17.52
ECAO  TSGSC0441201020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.60     0.00     0.00     0.00
TVA   TSLSC0641222020101 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    18.00     0.00     0.00     0.00
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Unscrubbed Coal_NOx            3           27036.  191171.     80.7    12.68
 2.45  2891.30    15.12     0.00    27.16   734.29  3625.59    18.97
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.234
Total Annual Costs
Year: 2010

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 1.54     2.38    12.80     0.00    32.00     0.80     3.18    17.10
WUMSWITCOLU1311162040310 01                    44.     328.     85.0     9.59
 1.54     3.65    11.13     0.00    32.00     1.41     5.06    15.43
WUMSWITCOLU1311162050710 01                    22.     164.     85.0     9.59
 1.54     1.82    11.13     0.00    32.00     0.70     2.53    15.43
WUMSWITCOLU1331392020110 01                    56.     349.     71.2    11.26
 1.54     4.47    12.80     0.00    32.00     1.79     6.26    17.93
MANO  TCOLU0431192020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01                   102.     406.     45.4    10.47
 1.54     4.87    12.01     0.00    32.00     3.26     8.14    20.05
MANOMOTCOLU0511282050710 01                    17.     127.     85.0     9.37
 1.54     1.38    10.91     0.00    32.00     0.54     1.93    15.21
MAPP  TCOLU0711312050710 01                    20.     149.     85.0     8.68
 1.54     1.52    10.22     0.00    25.80     0.52     2.04    13.69
MAPP  TCOLU0731311040110 01                    28.     208.     85.0     8.90
 1.54     2.18    10.44     0.00    32.00     0.90     3.07    14.74
MAPP  TCOLU1111261040110 01                    14.     104.     85.0    10.83
 1.54     1.29    12.37     0.00    17.40     0.24     1.53    14.70
MAPP  TCOLU1111271040210 01                    19.     141.     85.0     9.97
 1.54     1.63    11.51     0.00    32.00     0.61     2.24    15.80
MAPP  TCOLU1111261040310 01                     8.      60.     85.0    10.83
 1.54     0.74    12.37     0.00    32.00     0.26     0.99    16.66
MAPP  TCOLU1111252020110 01                    31.     231.     85.0     9.03
 1.54     2.44    10.57     0.00    32.00     0.99     3.43    14.86
MAPP  TCOLU1111262050710 01                   103.     767.     85.0    10.83
 1.54     9.48    12.37     0.00    32.00     3.30    12.78    16.66
MAPP  TCOLU1131261040110 01                    37.     207.     63.9    10.83
 1.54     2.56    12.37     0.00    17.40     0.64     3.20    15.48
MAPP  TCOLU1131262020110 01                    47.     263.     63.9    10.83
 1.54     3.25    12.37     0.00    32.00     1.50     4.76    18.09
MAPP  TCOLU1131272020110 01                    62.     347.     63.9    11.26
 1.54     4.44    12.80     0.00    32.00     1.98     6.42    18.52
MAPP  TCOLU1131252020210 01                    73.     408.     63.9    11.26
 1.54     5.23    12.80     0.00    32.00     2.34     7.56    18.52
MAPP  TCOLU1131262020310 01                   150.     936.     71.2    10.83
 1.54    11.57    12.37     0.00    32.00     4.80    16.37    17.50
MAPPWITCOLU1311161010710 01                    24.     179.     85.0     9.59
 1.54     1.99    11.13     0.00    32.00     0.77     2.76    15.43
MAPPWITCOLU1311162020110 01                    63.     469.     85.0     9.37
 1.54     5.12    10.91     0.00    32.00     2.02     7.14    15.21
MAPPWITCOLU1311162040210 01                    49.     365.     85.0     9.59
 1.54     4.06    11.13     0.00    32.00     1.57     5.63    15.43
UPNY  TCOLU0111022050110 01                   117.     871.     85.0    14.39
 1.54    13.87    15.93     0.00    32.00     3.74    17.62    20.22
UPNY  TCOLU0111022020210 01                    44.     328.     85.0    12.78
 1.54     4.69    14.32     0.00    32.00     1.41     6.10    18.62
UPNY  TCOLU0111022050210 01                    82.     611.     85.0    14.39
 1.54     9.72    15.93     0.00    32.00     2.62    12.35    20.22
UPNY  TCOLU0131022020110 01                    55.     410.     85.0    15.37
 1.54     6.93    16.91     0.00    32.00     1.76     8.69    21.21
NENG  TCOLU0911012050710 01                    14.     104.     85.0    18.25
 1.54     2.06    19.79     0.00    17.40     0.24     2.31    22.13
FRCCFLTCOLU1531132020110 01                    92.     685.     85.0    14.65
 1.54    11.09    16.19     0.00    32.00     2.94    14.04    20.49
VACA  TCOLU0631041050710 01                    74.     511.     78.9    12.88
 1.54     7.37    14.42     0.00    11.70     0.87     8.24    16.11
VACA  TCOLU0631102050710 01                    55.     410.     85.0    12.99
 1.54     5.95    14.53     0.00    11.70     0.64     6.59    16.10
VACANCTCOLU0631102020110 01                    98.     469.     54.6    15.01
 1.54     7.76    16.55     0.00    32.00     3.14    10.90    23.23
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.235
Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTCOLU0631102020210 01 | 189. | 905. | 54.6 | 15.01 | 1.54 | 14.97 | 16.55 | 0.00 | 32.00 | 6.05 | 21.02 |
| VACAVATCOLU0331092050710 01 | 57. | 356. | 71.2 | 15.40 | 1.54 | 6.02 | 16.94 | 0.00 | 11.70 | 0.67 | 6.69 |
| ENTG TCOLU1041292050210 01 | 550. | 4095. | 85.0 | 10.73 | 1.54 | 50.27 | 12.27 | 0.00 | 17.40 | 9.57 | 59.84 |
| SPPN TCOLU1731281020310 01 | 37. | 276. | 85.0 | 9.98 | 1.54 | 3.17 | 11.52 | 0.00 | 32.00 | 1.18 | 4.36 |
| SPPN TCOLU1731282020110 01 | 38. | 283. | 85.0 | 9.98 | 1.54 | 3.26 | 11.52 | 0.00 | 32.00 | 1.22 | 4.48 |
| SPPNMOTCOLU0511252050710 01 | 43. | 320. | 85.0 | 11.26 | 1.54 | 4.10 | 12.80 | 0.00 | 32.00 | 1.38 | 5.47 |
| SPPNMOTCOLU0511272050710 01 | 8. | 60. | 85.0 | 11.26 | 1.54 | 0.76 | 12.80 | 0.00 | 32.00 | 0.26 | 1.02 |
| SPPSTXTCOLU3531292050710 01 | 26. | 194. | 85.0 | 10.73 | 1.54 | 2.38 | 12.27 | 0.00 | 22.40 | 0.58 | 2.96 |
| CALI TCOLU0811372050710 01 | 113. | 841. | 85.0 | 9.12 | 1.54 | 8.97 | 10.66 | 0.00 | 12.90 | 1.46 | 10.43 |
| CALI TCOLU0832372050710 01 | 58. | 432. | 85.0 | 10.60 | 1.54 | 5.24 | 12.14 | 0.00 | 26.40 | 1.53 | 6.78 |
| RMPA TCOLU0811351020710 01 | 7. | 52. | 85.0 | 6.16 | 1.54 | 0.40 | 7.70 | 0.00 | 32.00 | 0.22 | 0.63 |
| RMPA TCOLU0811402050110 01 | 30. | 223. | 85.0 | 7.42 | 1.54 | 2.00 | 8.96 | 0.00 | 32.00 | 0.96 | 2.96 |
| RMPA TCOLU0811342050710 01 | 19. | 141. | 85.0 | 7.64 | 1.54 | 1.30 | 9.18 | 0.00 | 32.00 | 0.61 | 1.91 |
| RMPA TCOLU0811352050710 01 | 5. | 37. | 85.0 | 6.16 | 1.54 | 0.29 | 7.70 | 0.00 | 32.00 | 0.16 | 0.45 |
| RMPA TCOLU0831331020310 01 | 45. | 335. | 85.0 | 6.57 | 1.54 | 2.72 | 8.11 | 0.00 | 32.00 | 1.44 | 4.16 |
| NWPE TCOLU0811332050710 01 | 8. | 60. | 85.0 | 6.57 | 1.54 | 0.48 | 8.11 | 0.00 | 32.00 | 0.26 | 0.74 |
| NWPE TCOLU0831332050710 01 | 50. | 372. | 85.0 | 6.65 | 1.54 | 3.05 | 8.19 | 0.00 | 11.70 | 0.58 | 3.63 |
| PNW TABU 0711371030710 01 | 25. | 186. | 85.0 | 10.24 | 1.54 | 2.19 | 11.78 | 0.00 | 32.00 | 0.80 | 2.99 |
| ECAO TOLBU0411181020710 01 | 14. | 104. | 85.0 | 9.69 | 1.54 | 1.17 | 11.23 | 0.00 | 26.40 | 0.37 | 1.54 |
| ECAO TOLBU0411182020710 01 | 12. | 89. | 85.0 | 9.69 | 1.54 | 1.00 | 11.23 | 0.00 | 32.00 | 0.38 | 1.39 |
| ECAO TOLBU0412181020210 01 | 39. | 290. | 85.0 | 16.43 | 1.54 | 5.22 | 17.97 | 0.00 | 32.00 | 1.25 | 6.47 |
| ECAO TOLBU0412181020710 01 | 20. | 149. | 85.0 | 12.82 | 1.54 | 2.14 | 14.36 | 0.00 | 32.00 | 0.64 | 2.78 |
| ECAO TOLBU0611191020710 01 | 10. | 74. | 85.0 | 8.09 | 1.54 | 0.72 | 9.63 | 0.00 | 32.00 | 0.32 | 1.04 |
| ECAO TOLBU0631191040110 01 | 26. | 145. | 63.9 | 9.65 | 1.54 | 1.63 | 11.19 | 0.00 | 26.40 | 0.69 | 2.31 |

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ECAO  TOLBU0632051020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01                  145.     694.     54.6    11.89
 1.54     9.32    13.43     0.00    32.00     4.64    13.96    20.12
ECAO  TOLBU0632192020210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01                  137.     767.     63.9    10.79
 1.54     9.45    12.33     0.00    32.00     4.38    13.84    18.05
ECAOMDTOLBU0231082020110 01                   86.     412.     54.6    13.06
 1.54     6.01    14.60     0.00    32.00     2.75     8.76    21.29
ECAOOHTOLBU0432142020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.30     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01                  115.     643.     63.9    16.60
 1.54    11.66    18.14     0.00    32.00     3.68    15.34    23.86
MACW  TOLBU0232032050110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01                   14.     104.     85.0     9.59
 1.54     1.16    11.13     0.00    32.00     0.45     1.61    15.43
WUMSWITOLBU1312162020210 01                   24.     179.     85.0    12.44
 1.54     2.50    13.98     0.00    32.00     0.77     3.27    18.27
MANO  TOLBU0432192010210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTOLBU0532281010110 01                   49.     274.     63.9    10.50
 1.54     3.30    12.04     0.00    32.00     1.57     4.87    17.76
MAPP  TOLBU1141252020110 01                  130.     727.     63.9    11.36
 1.54     9.39    12.90     0.00    32.00     4.16    13.55    18.62
MAPPMOTOLBU0512282020110 01                   21.     156.     85.0     9.93
 1.54     1.79    11.47     0.00    32.00     0.67     2.47    15.77
MAPPMOTOLBU0532281010110 01                   97.     543.     63.9    10.69
 1.54     6.64    12.23     0.00    32.00     3.10     9.74    17.95
VACANCTOLBU0632101020210 01                   97.     143.     16.9    16.28
 1.54     2.55    17.82     0.00    32.00     3.10     5.66    39.50
VACANCTOLBU0632102020110 01                   79.     378.     54.6    15.36
 1.54     6.39    16.90     0.00    32.00     2.53     8.92    23.59
VACAVATOLBU0332092020110 01                  100.     479.     54.6    15.98
 1.54     8.38    17.52     0.00    32.00     3.20    11.58    24.20
VACAVATOLBU0332092020210 01                   71.     340.     54.6    16.44
 1.54     6.11    17.98     0.00    32.00     2.27     8.38    24.66
SPPN  TOLBU1732282020110 01                  144.     898.     71.2    11.40
 1.54    11.62    12.94     0.00    32.00     4.61    16.23    18.07
SPPN  TOLBU1742282020110 01                  148.    1023.     78.9    10.38
 1.54    12.19    11.92     0.00    32.00     4.74    16.93    16.55
SPPNMOTOLBU0511281020110 01                   84.     625.     85.0     9.37
 1.54     6.83    10.91     0.00    32.00     2.69     9.51    15.21
SPPNMOTOLBU0531281010110 01                   53.     254.     54.6    10.17
 1.54     2.97    11.71     0.00    32.00     1.70     4.67    18.40
SPPNMOTOLBU0531281020110 01                   96.     459.     54.6     9.98
 1.54     5.29    11.52     0.00    32.00     3.07     8.37    18.21
SPPNMOTOLBU0531282020110 01                   51.     302.     67.5     9.98
 1.54     3.47    11.52     0.00    32.00     1.63     5.11    16.93
SPPNMOTOLBU0532281010110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
RMPA  TOLSU0812321020110 01                   15.     112.     85.0     8.86
 1.54     1.16    10.40     0.00    26.40     0.40     1.56    13.95
ECAO  TRRBU0432042020110 01                  129.     617.     54.6    14.95
 1.54    10.18    16.49     0.00    32.00     4.13    14.31    23.17
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.236
Total Annual Costs
Year: 2010

| Unit Name | Fixed Costs Capital | FOM | Total | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs Fuel mill/kWh | VOM mill/kWh | Total MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| | US$/kW/a | US$/kW/a | MMUS$ | | MMUS$ | mill/kWh | | | | |
| MECS TSABU0441391020110 01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO TSABU0441201020110 01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAOOHTSABU0441051010110 01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAOOHTSABU0441051020110 01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ERCTTXTSABU2341292020210 01 | | | | 632. | 4706. | 85.0 | 9.84 | 53.56 | 11.38 | 1.54 |
| | 0.00 | 22.40 | 14.16 | 67.71 | 14.39 | | | | | |
| MACWPATSABU0241032020110 01 | | | | 472. | 2641. | 63.9 | 16.15 | 46.72 | 17.69 | 1.54 |
| | 0.00 | 32.00 | 15.10 | 61.82 | 23.41 | | | | | |
| MANO TSABU0441182020110 01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 17.40 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOMOTSABU0541252020110 01 | | | | 1158. | 6479. | 63.9 | 11.45 | 84.16 | 12.99 | 1.54 |
| | 0.00 | 26.40 | 30.57 | 114.73 | 17.71 | | | | | |
| MANOMOTSABU0542252020110 01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP TSABU1141282020110 01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 23.70 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP TSABU1141282010210 01 | | | | 135. | 842. | 71.2 | 10.22 | 9.90 | 11.76 | 1.54 |
| | 0.00 | 32.00 | 4.32 | 14.22 | 16.89 | | | | | |
| MAPP TSABU1142282020110 01 | | | | 371. | 2564. | 78.9 | 10.23 | 30.17 | 11.77 | 1.54 |
| | 0.00 | 26.40 | 9.79 | 39.97 | 15.59 | | | | | |
| DSNYNYTSABU0141012020110 01 | | | | 541. | 4028. | 85.0 | 17.87 | 78.20 | 19.41 | 1.54 |
| | 0.00 | 25.60 | 13.85 | 92.05 | 22.85 | | | | | |
| DSNYNYTSABU0142012020110 01 | | | | 197. | 1467. | 85.0 | 19.03 | 30.18 | 20.57 | 1.54 |
| | 0.00 | 26.40 | 5.20 | 35.38 | 24.12 | | | | | |
| NENGCTTSABU3241012020110 01 | | | | 104. | 776. | 85.0 | 16.92 | 14.33 | 18.46 | 1.54 |
| | 0.00 | 26.40 | 2.75 | 17.08 | 22.00 | | | | | |
| VACANCTSABU0641102020210 01 | | | | 745. | 5149. | 78.9 | 13.79 | 78.93 | 15.33 | 1.54 |
| | 0.00 | 17.40 | 12.96 | 91.90 | 17.85 | | | | | |
| TVA TSABU0641202020310 01 | | | | 1206. | 8980. | 85.0 | 11.32 | 115.46 | 12.86 | 1.54 |
| | 0.00 | 32.00 | 38.59 | 154.05 | 17.15 | | | | | |
| SOU TSABU0641112020110 01 | | | | 1721. | 12815. | 85.0 | 13.44 | 191.94 | 14.98 | 1.54 |
| | 0.00 | 28.80 | 49.56 | 241.50 | 18.85 | | | | | |
| SOU ALTSABU0641231020210 01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 | | | | | |
| SOU ALTSABU0641232020210 01 | | | | 669. | 4982. | 85.0 | 12.81 | 71.46 | 14.35 | 1.54 |
| | 0.00 | 17.40 | 11.64 | 83.10 | 16.68 | | | | | |
| SOU MSTSABU1641242020110 01 | | | | 536. | 3991. | 85.0 | 14.67 | 64.68 | 16.21 | 1.54 |
| | 0.00 | 26.40 | 14.15 | 78.83 | 19.75 | | | | | |
| SOU MSTSABU1641242020210 01 | | | | 545. | 4058. | 85.0 | 14.45 | 64.89 | 15.99 | 1.54 |
| | 0.00 | 17.40 | 9.48 | 74.37 | 18.33 | | | | | |
| RMPA TSABU0841341020310 01 | | | | 106. | 789. | 85.0 | 7.67 | 7.27 | 9.21 | 1.54 |
| | 0.00 | 32.00 | 3.39 | 10.66 | 13.51 | | | | | |
| RMPA TSABU0841342020310 01 | | | | 208. | 1549. | 85.0 | 7.38 | 13.81 | 8.92 | 1.54 |
| | 0.00 | 22.40 | 4.66 | 18.47 | 11.93 | | | | | |

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NWPE  TSABU0832332020110 01                    70.     521.     85.0     7.07
 1.54     4.49     8.61     0.00    32.00     2.24     6.73    12.91
NWPE  TSABU0841332020110 01                   105.     782.     85.0     6.68
 1.54     6.42     8.22     0.00    32.00     3.36     9.78    12.51
NWPE  TSABU0841352020310 01                   258.    1921.     85.0     5.95
 1.54    14.39     7.49     0.00    17.40     4.49    18.87     9.82
MECS  TSASU0441392020110 01                  1260.    9382.     85.0    12.19
 1.54   128.80    13.73     0.00    17.40    21.92   150.72    16.06
ERCTTXTSASU1941291020310 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    24.60     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    24.40     0.00     0.00     0.00
MANO  TSASU0441202020110 01                   169.     946.     63.9    13.59
 1.54    14.30    15.13     0.00    32.00     5.41    19.71    20.85
MAPPWITSASU1331162020110 01                    87.     543.     71.2     9.56
 1.54     6.02    11.10     0.00    32.00     2.78     8.81    16.23
MAPPWITSASU1332162020110 01                    57.     319.     63.9    10.11
 1.54     3.71    11.65     0.00    32.00     1.82     5.54    17.37
ENTG  TSASU1041292020110 01                  4252.   31662.     85.0    13.81
 1.54   485.89    15.35     0.00    17.40    73.98   559.87    17.68
ENTG  TSASU1042292020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
SPPS  TSASU1041292020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
SPPS  TSASU3641282020110 01                  3838.   28579.     85.0     9.35
 1.54   311.15    10.89     0.00    23.00    88.27   399.42    13.98
SPPSTXTSASU2341292020210 01                   357.    2655.     85.0    13.84
 1.54    40.83    15.38     0.00    24.40     8.70    49.53    18.65
SPPSTXTSASU2342292020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    17.40     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01                   346.    2576.     85.0    13.43
 1.54    38.56    14.97     0.00    26.40     9.13    47.70    18.51
SPPSTXTSASU3541292020310 01                  1800.   13403.     85.0    13.25
 1.54   198.27    14.79     0.00    17.40    31.32   229.59    17.13
PNW ORTSASU0842372020110 01                   508.    3783.     85.0    10.76
 1.54    46.52    12.30     0.00    22.40    11.38    57.90    15.31
RMPA  TSASU0832342020310 01                    49.     365.     85.0     9.73
 1.54     4.11    11.27     0.00    32.00     1.57     5.68    15.57
RMPA  TSASU0841342020310 01                  1155.    8600.     85.0     9.21
 1.54    92.42    10.75     0.00    24.70    28.53   120.95    14.06
NWPE  TSASU0742322020110 01                   156.    1162.     85.0     7.02
 1.54     9.94     8.56     0.00    26.40     4.12    14.06    12.11
NWPE  TSASU0841322020110 01                   106.     789.     85.0     6.76
 1.54     6.55     8.30     0.00    32.00     3.39     9.94    12.60
NWPE  TSASU0842322020110 01                   336.    2502.     85.0     6.86
 1.54    21.02     8.40     0.00    32.00    10.75    31.77    12.70
MECS  TSBBU0441392020110 01                   500.    3723.     85.0     9.89
 1.54    42.56    11.43     0.00    32.00    16.00    58.56    15.73
ECAO  TSBBU0241041020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ECAO  TSBBU0632061020110 01                   141.     376.     30.5    14.20
 1.54     5.92    15.74     0.00    32.00     4.51    10.43    27.74
ECAO  TSBBU0632062020110 01                    72.     192.     30.5    14.76
 1.54     3.13    16.30     0.00    32.00     2.30     5.44    28.30
ECAO  TSBBU0641062020110 01                   116.     724.     71.2    10.96
 1.54     9.05    12.50     0.00    32.00     3.71    12.76    17.63
ECAOINTSBBU0441182020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSBBU0431042020110 01 | 188. | 1052. | 63.9 | 12.20 | 1.54 | 14.45 | 13.74 | 0.00 | 32.00 | 6.02 | 20.47 | 19.46 |
| ECAOOHTSBBU0441041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441042020110 01 | 633. | 4375. | 78.9 | 10.48 | 1.54 | 52.60 | 12.02 | 0.00 | 30.10 | 19.05 | 71.65 | 16.38 |
| MANOILTSBBU0441181010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.50 | 0.00 | 0.00 | 0.00 |
| MAPP TSBBU1112271020710 01 | 23. | 171. | 85.0 | 11.59 | 1.54 | 2.25 | 13.13 | 0.00 | 32.00 | 0.74 | 2.99 | 17.43 |
| MAPP TSBBU1112272040210 01 | 36. | 268. | 85.0 | 14.07 | 1.54 | 4.19 | 15.61 | 0.00 | 32.00 | 1.15 | 5.34 | 19.91 |
| MAPP TSBBU1131262020110 01 | 29. | 200. | 78.9 | 10.36 | 1.54 | 2.39 | 11.90 | 0.00 | 26.40 | 0.77 | 3.15 | 15.72 |
| MAPP TSBBU1131262020210 01 | 60. | 336. | 63.9 | 10.93 | 1.54 | 4.19 | 12.47 | 0.00 | 26.40 | 1.58 | 5.77 | 17.19 |
| MAPP TSBBU1132271040110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBBU1432282020210 01 | 85. | 633. | 85.0 | 10.89 | 1.54 | 7.87 | 12.43 | 0.00 | 26.40 | 2.24 | 10.11 | 15.98 |
| MAPPNETSBBU1441282010310 01 | 120. | 894. | 85.0 | 10.02 | 1.54 | 10.33 | 11.56 | 0.00 | 32.00 | 3.84 | 14.17 | 15.86 |
| MAPPNETSBBU1442282010310 01 | 105. | 782. | 85.0 | 10.79 | 1.54 | 9.64 | 12.33 | 0.00 | 26.40 | 2.77 | 12.41 | 15.88 |
| VACANCTSBBU0631102020110 01 | 78. | 436. | 63.9 | 14.95 | 1.54 | 7.20 | 16.49 | 0.00 | 32.00 | 2.50 | 9.69 | 22.21 |
| VACANCTSBBU0641102020110 01 | 26. | 181. | 78.9 | 13.66 | 1.54 | 2.74 | 15.20 | 0.00 | 27.20 | 0.71 | 3.45 | 19.13 |
| VACANCTSBBU0641102020210 01 | 106. | 593. | 63.9 | 14.94 | 1.54 | 9.77 | 16.48 | 0.00 | 32.00 | 3.39 | 13.16 | 22.20 |
| TVA TSBBU0641212020110 01 | 976. | 7268. | 85.0 | 12.39 | 1.54 | 101.24 | 13.93 | 0.00 | 32.00 | 31.23 | 132.48 | 18.23 |
| SOU TSBBU0632112020110 01 | 107. | 426. | 45.4 | 16.40 | 1.54 | 7.64 | 17.94 | 0.00 | 32.00 | 3.42 | 11.06 | 25.98 |
| SOU TSBBU0641112020110 01 | 282. | 2100. | 85.0 | 14.97 | 1.54 | 34.67 | 16.51 | 0.00 | 26.20 | 7.39 | 42.06 | 20.03 |
| SOU TSBBU0641242020110 01 | 1103. | 8213. | 85.0 | 13.68 | 1.54 | 125.02 | 15.22 | 0.00 | 26.40 | 29.12 | 154.14 | 18.77 |
| SOU TSBBU0641242020210 01 | 534. | 3976. | 85.0 | 14.26 | 1.54 | 62.82 | 15.80 | 0.00 | 32.00 | 17.09 | 79.91 | 20.10 |
| SOU MSTSBBU1641241020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641242020110 01 | 262. | 1951. | 85.0 | 14.36 | 1.54 | 31.03 | 15.90 | 0.00 | 26.40 | 6.92 | 37.95 | 19.45 |
| AZNM TSBBU0841361020310 01 | 156. | 1162. | 85.0 | 8.38 | 1.54 | 11.52 | 9.92 | 0.00 | 32.00 | 4.99 | 16.51 | 14.22 |
| AZNM TSBBU0841362020210 01 | 260. | 1936. | 85.0 | 8.53 | 1.54 | 19.49 | 10.07 | 0.00 | 22.40 | 5.82 | 25.31 | 13.07 |

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RMPA  TSBBU0812341020710 01                    48.     357.     85.0     9.23
 1.54     3.85    10.77     0.00    32.00     1.54     5.38    15.06
NWPE  TSBBU0841332020110 01                   425.    3165.     85.0     6.14
 1.54    24.30     7.68     0.00    26.40    11.22    35.52    11.22
ERCTTXTSBLU2241302020110 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MAPPSDTSBLU0742261010110 02                   108.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     2.85     2.85     0.00
MECS  TSBSU0441392020110 01                  1894.   13090.     78.9    11.96
 1.54   176.68    13.50     0.00    29.20    55.30   231.98    17.72
ERCTTXTSBSU2341292020110 01                  1160.    8638.     85.0    13.19
 1.54   127.25    14.73     0.00    22.40    25.98   153.23    17.74
MANO  TSBSU0432172010110 01                   100.     479.     54.6    13.61
 1.54     7.25    15.15     0.00    32.00     3.20    10.45    21.84
MANO  TSBSU0441172020110 01                  2672.   17104.     73.1    11.44
 1.54   222.01    12.98     0.00    32.00    85.50   307.51    17.98
MANO  TSBSU0441172020210 01                   579.    4002.     78.9    11.38
 1.54    51.72    12.92     0.00    32.00    18.53    70.25    17.55
MAPPNETSBSU1432282020110 01                    76.     525.     78.9    10.83
 1.54     6.50    12.37     0.00    32.00     2.43     8.93    17.00
MAPPNETSBSU1432282020210 01                   172.    1281.     85.0    10.26
 1.54    15.11    11.80     0.00    17.40     2.99    18.11    14.14
MAPPNETSBSU1441282020110 01                   585.    4356.     85.0     9.54
 1.54    48.27    11.08     0.00    22.40    13.10    61.37    14.09
MAPPNETSBSU1441282020210 01                   700.    5212.     85.0     8.75
 1.54    53.65    10.29     0.00    17.40    12.18    65.83    12.63
MAPPNETSBSU1442282020110 01                   569.    4237.     85.0    10.18
 1.54    49.64    11.72     0.00    29.90    17.01    66.65    15.73
MAPPNETSBSU1442282020510 01                   665.    4952.     85.0     9.96
 1.54    56.95    11.50     0.00    22.40    14.90    71.85    14.51
SPPNMOTSBSU0542282020110 01                   161.    1113.     78.9     9.86
 1.54    12.68    11.40     0.00    32.00     5.15    17.84    16.03
ECAOINTSCBU0431181020110 01                   255.    1427.     63.9    12.55
 1.54    20.11    14.09     0.00    32.00     8.16    28.27    19.81
ECAOINTSCBU0432181020110 01                    95.     532.     63.9    12.95
 1.54     7.70    14.49     0.00    32.00     3.04    10.74    20.21
ECAOINTSCBU0441182020110 01                  1292.    8059.     71.2    12.09
 1.54   109.81    13.63     0.00    26.40    34.11   143.92    17.86
ECAOOHTSCBU0441041020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    17.40     0.00     0.00     0.00
MACE  TSCBU0131032020310 01                    80.     499.     71.2    16.46
 1.54     8.98    18.00     0.00    32.00     2.56    11.54    23.13
MACEDETSCBU0231032020110 01                   178.    1110.     71.2    15.94
 1.54    19.41    17.48     0.00    32.00     5.70    25.10    22.61
MACW  TSCBU0241032020110 01                  1356.    8458.     71.2    14.87
 1.54   138.75    16.41     0.00    29.00    39.32   178.08    21.05
MACW  TSCBU0241032020310 01                   321.    2218.     78.9    14.91
 1.54    36.50    16.45     0.00    32.00    10.27    46.78    21.08
MACW  TSCBU0242032020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MAPP  TSCBU1131272010110 01                    80.     499.     71.2    10.85
 1.54     6.18    12.39     0.00    32.00     2.56     8.74    17.52
MAPP  TSCBU1131252020110 01                    34.     190.     63.9    11.26
 1.54     2.43    12.80     0.00    32.00     1.09     3.52    18.52
MAPP  TSCBU1132252020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01                   362.    2696.     85.0    14.39
 1.54    42.93    15.93     0.00    32.00    11.58    54.51    20.22
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Total Annual Costs
Year: 2010

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Capacity | Gener. | | C.F. | | Fuel | | | |
| VOM | | | Total | | | Capital | | FOM | | | Total | | | Total | | | | | |
| Unit | Name | | | | | | | | | | [MW] | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | MMUS$ | MMUS$ | | mill/kWh | | | | | |
| UPNY | TSCBU0141022020210 | | | | 01 | | | | | | 387. | 2882. | | 85.0 | | 16.62 | | | |
| 1.54 | | 52.33 | | 18.16 | | 0.00 | | 32.00 | | | 12.38 | 64.72 | | 22.46 | | | | | |
| VACA | TSCBU0631102020110 | | | | 01 | | | | | | 170. | 1060. | | 71.2 | | 13.58 | | | |
| 1.54 | | 16.04 | | 15.12 | | 0.00 | | 32.00 | | | 5.44 | 21.48 | | 20.25 | | | | | |
| VACA | TSCBU0641102020110 | | | | 01 | | | | | | 306. | 2115. | | 78.9 | | 13.14 | | | |
| 1.54 | | 31.06 | | 14.68 | | 0.00 | | 26.40 | | | 8.08 | 39.13 | | 18.50 | | | | | |
| TVA | TSCBU0641212020210 | | | | 01 | | | | | | 704. | 5242. | | 85.0 | | 11.11 | | | |
| 1.54 | | 66.31 | | 12.65 | | 0.00 | | 32.00 | | | 22.53 | 88.84 | | 16.95 | | | | | |
| SOU | TSCBU0641232020210 | | | | 01 | | | | | | 1904. | 14178. | | 85.0 | | 12.64 | | | |
| 1.54 | | 201.00 | | 14.18 | | 0.00 | | 29.40 | | | 55.98 | 256.98 | | 18.13 | | | | | |
| SPPN | TSCBU1731282010310 | | | | 01 | | | | | | 55. | 410. | | 85.0 | | 9.81 | | | |
| 1.54 | | 4.65 | | 11.35 | | 0.00 | | 32.00 | | | 1.76 | 6.41 | | 15.65 | | | | | |
| SPPN | TSCBU1732281010110 | | | | 01 | | | | | | 73. | 505. | | 78.9 | | 10.42 | | | |
| 1.54 | | 6.03 | | 11.96 | | 0.00 | | 32.00 | | | 2.34 | 8.37 | | 16.59 | | | | | |
| SPPN | TSCBU1732282020110 | | | | 01 | | | | | | 54. | 302. | | 63.9 | | 12.00 | | | |
| 1.54 | | 4.09 | | 13.54 | | 0.00 | | 32.00 | | | 1.73 | 5.82 | | 19.26 | | | | | |
| RMPA | TSCBU0832342020310 | | | | 01 | | | | | | 126. | 938. | | 85.0 | | 8.43 | | | |
| 1.54 | | 9.36 | | 9.97 | | 0.00 | | 28.50 | | | 3.59 | 12.95 | | 13.80 | | | | | |
| RMPA | TSCBU0841342020310 | | | | 01 | | | | | | 133. | 990. | | 85.0 | | 7.70 | | | |
| 1.54 | | 9.15 | | 9.24 | | 0.00 | | 26.40 | | | 3.51 | 12.66 | | 12.79 | | | | | |
| WUMSWITSCSU1242162020110 | | | | | 01 | | | | | | 721. | 4986. | | 78.9 | | 9.97 | | | |
| 1.54 | | 57.37 | | 11.51 | | 0.00 | | 17.40 | | | 12.55 | 69.93 | | 14.02 | | | | | |
| WUMSWITSCSU1341161010110 | | | | | 01 | | | | | | 0. | 0. | | N/A | | 0.00 | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 26.40 | | | 0.00 | 0.00 | | 0.00 | | | | | |
| WUMSWITSCSU1341162020110 | | | | | 01 | | | | | | 525. | 3909. | | 85.0 | | 9.44 | | | |
| 1.54 | | 42.91 | | 10.98 | | 0.00 | | 22.40 | | | 11.76 | 54.67 | | 13.99 | | | | | |
| WUMSWITSCSU1341162020210 | | | | | 01 | | | | | | 525. | 3628. | | 78.9 | | 9.48 | | | |
| 1.54 | | 39.99 | | 11.02 | | 0.00 | | 26.40 | | | 13.86 | 53.85 | | 14.84 | | | | | |
| WUMSWITSCSU1341162020510 | | | | | 01 | | | | | | 334. | 2487. | | 85.0 | | 9.39 | | | |
| 1.54 | | 27.19 | | 10.93 | | 0.00 | | 22.40 | | | 7.48 | 34.67 | | 13.94 | | | | | |
| WUMSWITSCSU1342162020110 | | | | | 01 | | | | | | 402. | 2993. | | 85.0 | | 9.79 | | | |
| 1.54 | | 33.93 | | 11.33 | | 0.00 | | 17.40 | | | 6.99 | 40.92 | | 13.67 | | | | | |
| MANO | TSCSU0441182010110 | | | | 01 | | | | | | 999. | 5567. | | 63.6 | | 12.93 | | | |
| 1.54 | | 80.56 | | 14.47 | | 0.00 | | 28.10 | | | 28.07 | 108.63 | | 19.51 | | | | | |
| MANO | TSCSU0441202020110 | | | | 01 | | | | | | 676. | 3782. | | 63.9 | | 13.28 | | | |
| 1.54 | | 56.07 | | 14.82 | | 0.00 | | 32.00 | | | 21.63 | 77.70 | | 20.54 | | | | | |
| MANO | TSCSU0442182010110 | | | | 01 | | | | | | 700. | 3350. | | 54.6 | | 13.85 | | | |
| 1.54 | | 51.56 | | 15.39 | | 0.00 | | 26.40 | | | 18.48 | 70.04 | | 20.90 | | | | | |
| MANO | TSCSU0442202020110 | | | | 01 | | | | | | 169. | 809. | | 54.6 | | 13.80 | | | |
| 1.54 | | 12.41 | | 15.34 | | 0.00 | | 32.00 | | | 5.41 | 17.82 | | 22.03 | | | | | |
| MAPP | TSCSU1141251020210 | | | | 01 | | | | | | 0. | 0. | | N/A | | 0.00 | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 17.40 | | | 0.00 | 0.00 | | 0.00 | | | | | |
| MAPP | TSCSU1141252020110 | | | | 01 | | | | | | 637. | 3564. | | 63.9 | | 11.80 | | | |
| 1.54 | | 47.53 | | 13.34 | | 0.00 | | 22.40 | | | 14.27 | 61.80 | | 17.34 | | | | | |
| MAPP | TSCSU1141252020210 | | | | 01 | | | | | | 644. | 3703. | | 65.6 | | 11.74 | | | |
| 1.54 | | 49.16 | | 13.28 | | 0.00 | | 17.40 | | | 11.21 | 60.37 | | 16.30 | | | | | |
| MAPP | TSCSU1142252020210 | | | | 01 | | | | | | 260. | 1455. | | 63.9 | | 13.06 | | | |
| 1.54 | | 21.24 | | 14.60 | | 0.00 | | 26.40 | | | 6.86 | 28.11 | | 19.32 | | | | | |

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MAPPWITSCSU1342162020210 01                    377.    2606.     78.9    10.23
 1.54    30.67    11.77     0.00    22.40     8.44    39.12    15.01
MECS  TSDBU0441392020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01                    260.    1797.     78.9    11.02
 1.54    22.58    12.56     0.00    32.00     8.32    30.90    17.19
ECAOVATSDBU0341061020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACSMDTSDBU0241081020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.50     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01                    833.    6205.     85.0     9.99
 1.54    71.57    11.53     0.00    32.00    26.67    98.24    15.83
MANOILTSDBU0441191020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MANOILTSDBU0441192020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01                   2300.   14968.     74.3    11.15
 1.54   189.90    12.69     0.00    26.40    60.72   250.62    16.74
FRCCFLTSDBU1541131020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    17.40     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01                    833.    6203.     85.0    13.42
 1.54    92.81    14.96     0.00    28.90    24.07   116.88    18.84
FRCCFLTSDBU1541132020210 01                    218.    1623.     85.0    14.46
 1.54    25.97    16.00     0.00    17.40     3.79    29.77    18.34
VACANCTSDBU0641102020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.50     0.00     0.00     0.00
TVA   TSDBU0641222020110 01                    564.    3898.     78.9    13.48
 1.54    58.53    15.02     0.00    32.00    18.05    76.58    19.65
TVA   TSDBU0642222020210 01                    642.    4437.     78.9    14.82
 1.54    72.59    16.36     0.00    32.00    20.54    93.13    20.99
WUMSWITSDSU1331392020110 01                     87.     516.     67.7    12.85
 1.54     7.42    14.39     0.00    32.00     2.78    10.21    19.78
WUMSWITSDSU1332392020110 01                    183.     876.     54.6    14.81
 1.54    14.32    16.35     0.00    32.00     5.86    20.18    23.04
WUMSWITSDSU1341392010210 01                    113.     632.     63.9    12.88
 1.54     9.12    14.42     0.00    32.00     3.62    12.73    20.14
WUMSWITSDSU1342392010210 01                    113.     541.     54.6    13.30
 1.54     8.03    14.84     0.00    32.00     3.62    11.64    21.53
MAPP  TSDSU1132252020110 01                     30.     168.     63.9    13.09
 1.54     2.46    14.63     0.00    26.40     0.79     3.25    19.35
MAPP  TSDSU1132252020210 01                     88.     492.     63.9    12.47
 1.54     6.90    14.01     0.00    32.00     2.82     9.71    19.73
MECS  TSEBU0441392020110 01                    320.    2383.     85.0    10.65
 1.54    29.04    12.19     0.00    32.00    10.24    39.28    16.49
ECAOOHTSEBU0441142020110 01                    652.    3648.     63.9    12.23
 1.54    50.22    13.77     0.00    32.00    20.86    71.08    19.48
ECAOOHTSEBU0442142020110 01                    156.     747.     54.6    13.19
 1.54    11.00    14.73     0.00    32.00     4.99    15.99    21.42
MACWPATSEBU0232032020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01                    135.     755.     63.9    16.01
 1.54    13.26    17.55     0.00    32.00     4.32    17.58    23.27
MANO  TSEBU0442181010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01                    211.    1316.     71.2    11.22
 1.54    16.79    12.76     0.00    26.40     5.57    22.36    16.99
NENG  TSEBU2841012020110 01                    229.    1702.     85.0    16.35
 1.54    30.44    17.89     0.00    29.30     6.70    37.14    21.82
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Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACASCTSEBU0641102020110 01 | 250. | 1728. | 78.9 | 13.25 | 1.54 | 25.55 | 14.79 | 0.00 | 32.00 | 8.00 | 33.55 | 19.42 |
| VACASCTSEBU0641102020310 01 | 432. | 3189. | 84.3 | 14.05 | 1.54 | 49.71 | 15.59 | 0.00 | 32.00 | 13.82 | 63.53 | 19.92 |
| SOU ALTSEBU0632232020110 01 | 135. | 933. | 78.9 | 13.72 | 1.54 | 14.24 | 15.26 | 0.00 | 32.00 | 4.32 | 18.56 | 19.89 |
| SOU ALTSEBU0641232020210 01 | 857. | 6381. | 85.0 | 11.24 | 1.54 | 81.58 | 12.78 | 0.00 | 32.00 | 27.42 | 109.00 | 17.08 |
| SOU ALTSEBU0642232020110 01 | 224. | 1668. | 85.0 | 12.92 | 1.54 | 24.11 | 14.46 | 0.00 | 32.00 | 7.17 | 31.28 | 18.76 |
| MAPPNDTSELU0742312010110 02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312020110 02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 | 957. | 7126. | 85.0 | 11.79 | 1.54 | 94.97 | 13.33 | 0.00 | 26.70 | 25.55 | 120.52 | 16.91 |
| MANO TSESU0441172010110 01 | 303. | 1890. | 71.2 | 11.04 | 1.54 | 23.77 | 12.58 | 0.00 | 32.00 | 9.70 | 33.46 | 17.71 |
| MANO TSESU0441172020310 01 | 187. | 1392. | 85.0 | 10.88 | 1.54 | 17.29 | 12.42 | 0.00 | 32.00 | 5.98 | 23.27 | 16.71 |
| MAPP TSESU1141261010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| SOU TSESU0641111020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 0.00 | 0.00 | 0.00 |
| SOU TSESU0641112020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.60 | 0.00 | 0.00 | 0.00 |
| SOU TSESU0641112020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 0.00 | 0.00 | 0.00 |
| SPPN TSESU1741282020110 01 | 235. | 1750. | 85.0 | 9.57 | 1.54 | 19.43 | 11.11 | 0.00 | 17.40 | 4.09 | 23.52 | 13.44 |
| ECAO TSFBU0431142020210 01 | 252. | 1206. | 54.6 | 15.73 | 1.54 | 20.83 | 17.27 | 0.00 | 32.00 | 8.06 | 28.89 | 23.95 |
| ECAO TSFBU0432142020110 01 | 95. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 3.04 | 3.04 | 0.00 |
| ECAO TSFBU0432142020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSFBU0441142020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| ECAOINTSFBU0441201010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAOKYTSFBU0641201020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 17.40 | 0.00 | 0.00 | 0.00 |
| ECAOKYTSFBU0641202020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| ECAOWVTSFBU0641041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |

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ECAOWVTSFBU0641042020110 01                    552.    3815.     78.9     9.95
 1.54    43.83    11.49     0.00    32.00    17.66    61.50    16.12
MANOMOTSFBU0542251010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.20     0.00     0.00     0.00
UPNY  TSFBU0131022020210 01                    266.    1981.     85.0    16.28
 1.54    35.29    17.82     0.00    32.00     8.51    43.80    22.11
NENG  TSFBU2832012020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01                   1674.   12465.     85.0    14.85
 1.54   204.25    16.39     0.00    29.70    49.72   253.97    20.37
SOU   TSFBU0642112020110 01                    320.     642.     22.9    16.72
 1.54    11.73    18.26     0.00    32.00    10.24    21.97    34.21
SPPN  TSFBU1742282020110 01                    135.     933.     78.9    10.70
 1.54    11.42    12.24     0.00    26.40     3.56    14.99    16.06
ECAO  TSFSU0441202020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.60     0.00     0.00     0.00
MECSMITSGBU0431392020110 01                    190.    1313.     78.9    10.87
 1.54    16.30    12.41     0.00    32.00     6.08    22.38    17.04
MECSMITSGBU0432391050210 01                     27.     129.     54.6    13.67
 1.54     1.97    15.21     0.00    26.40     0.71     2.68    20.73
MECSMITSGBU0441392020110 01                    945.    7037.     85.0    10.40
 1.54    83.98    11.94     0.00    32.00    30.24   114.22    16.23
ECAOOHTSGBU0441141010110 01                    230.     953.     47.3    12.86
 1.54    13.72    14.40     0.00    32.00     7.36    21.08    22.12
ECAOOHTSGBU0441142020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.40     0.00     0.00     0.00
MACS  TSGBU0241082020110 01                    546.    3774.     78.9    12.39
 1.54    52.55    13.93     0.00    32.00    17.47    70.02    18.56
WUMSWITSGBU1231392020110 01                    166.     929.     63.9    11.17
 1.54    11.81    12.71     0.00    32.00     5.31    17.12    18.43
WUMSWITSGBU1232392020310 01                    280.    1340.     54.6    12.66
 1.54    19.03    14.20     0.00    26.40     7.39    26.43    19.72
MANOILTSGBU0431192020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOILTSGBU0432192020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTSGBU0511271040310 01                     14.     104.     85.0    10.87
 1.54     1.29    12.41     0.00    32.00     0.45     1.74    16.71
MANOMOTSGBU0511272020710 01                      2.      15.     85.0    10.84
 1.54     0.18    12.38     0.00    32.00     0.06     0.25    16.68
MANOMOTSGBU0531272040310 01                     57.     356.     71.2    10.87
 1.54     4.41    12.41     0.00    32.00     1.82     6.24    17.54
MAPP  TSGBU1132271010110 01                     76.     425.     63.9    11.76
 1.54     5.66    13.30     0.00    26.40     2.01     7.66    18.02
MAPP  TSGBU1132272020110 01                     39.     189.     55.2    12.11
 1.54     2.58    13.65     0.00    32.00     1.25     3.82    20.26
MAPP  TSGBU1132272020210 01                     78.     323.     47.3    12.16
 1.54     4.43    13.70     0.00    29.40     2.29     6.72    20.79
MAPP  TSGBU1141272020210 01                    142.     886.     71.2    11.04
 1.54    11.14    12.58     0.00    32.00     4.54    15.69    17.71
UPNY  TSGBU0141022020210 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01                    275.    1797.     74.6    14.18
 1.54    28.26    15.72     0.00    32.00     8.80    37.06    20.62
VACANCTSGBU0641102020210 01                    526.    3281.     71.2    14.50
 1.54    52.62    16.04     0.00    32.00    16.83    69.45    21.17
VACANCTSGBU0642101020110 01                    165.     790.     54.6    15.36
 1.54    13.35    16.90     0.00    32.00     5.28    18.63    23.59
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.240
Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSGBU0642102020110 01 | 142. | 680. | 54.6 | 15.49 | 1.54 | 11.57 | 17.03 | 0.00 | 32.00 | 4.54 | 16.12 | 23.71 |
| TVA TSGBU0641222020110 01 | 222. | 1653. | 85.0 | 13.62 | 1.54 | 25.05 | 15.16 | 0.00 | 32.00 | 7.10 | 32.16 | 19.45 |
| TVA TSGBU0642222020110 01 | 444. | 3069. | 78.9 | 14.00 | 1.54 | 47.67 | 15.54 | 0.00 | 32.00 | 14.21 | 61.88 | 20.17 |
| SPPNMOTSGBU0511271020710 01 | 6. | 45. | 85.0 | 9.97 | 1.54 | 0.51 | 11.51 | 0.00 | 32.00 | 0.19 | 0.71 | 15.80 |
| ECAO TSGSU0441201020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441042020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.80 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441182020110 01 | 634. | 3955. | 71.2 | 12.53 | 1.54 | 55.64 | 14.07 | 0.00 | 28.30 | 17.94 | 73.58 | 18.61 |
| ECAO TSHBU0441042020310 01 | 540. | 3601. | 76.1 | 11.94 | 1.54 | 48.55 | 13.48 | 0.00 | 32.00 | 17.28 | 65.83 | 18.28 |
| ECAO TSHBU0641041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0641042020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0641182020110 01 | 1003. | 5612. | 63.9 | 12.39 | 1.54 | 78.16 | 13.93 | 0.00 | 27.40 | 27.48 | 105.64 | 18.83 |
| ECAO TSHBU0642181020110 01 | 105. | 587. | 63.9 | 13.36 | 1.54 | 8.75 | 14.90 | 0.00 | 32.00 | 3.36 | 12.11 | 20.62 |
| ECAO TSHBU0642182020210 01 | 108. | 604. | 63.9 | 13.62 | 1.54 | 9.16 | 15.16 | 0.00 | 32.00 | 3.46 | 12.62 | 20.88 |
| MACW TSHBU0241412020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.20 | 0.00 | 0.00 | 0.00 |
| WUMSWITSHBU1332162010110 01 | 235. | 1215. | 59.0 | 10.94 | 1.54 | 15.16 | 12.48 | 0.00 | 32.00 | 7.52 | 22.68 | 18.67 |
| WUMSWITSHBU1332162020110 01 | 98. | 548. | 63.9 | 11.17 | 1.54 | 6.97 | 12.71 | 0.00 | 32.00 | 3.14 | 10.10 | 18.43 |
| MANOILTSHBU0441192020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBU0631102020110 01 | 250. | 1728. | 78.9 | 13.17 | 1.54 | 25.41 | 14.71 | 0.00 | 32.00 | 8.00 | 33.41 | 19.34 |
| VACA TSHBU0641102020110 01 | 174. | 1203. | 78.9 | 12.77 | 1.54 | 17.21 | 14.31 | 0.00 | 32.00 | 5.57 | 22.78 | 18.94 |
| VACA TSHBU0641102020210 01 | 170. | 1175. | 78.9 | 14.43 | 1.54 | 18.76 | 15.97 | 0.00 | 32.00 | 5.44 | 24.20 | 20.60 |
| SOU TSHBU0632222020210 01 | 80. | 596. | 85.0 | 14.73 | 1.54 | 9.69 | 16.27 | 0.00 | 26.40 | 2.11 | 11.81 | 19.82 |
| WUMS TSHSU0432392020210 01 | 258. | 1235. | 54.6 | 14.24 | 1.54 | 19.48 | 15.78 | 0.00 | 22.40 | 5.78 | 25.26 | 20.46 |
| MECS TSIBU0432392020110 01 | 53. | 366. | 78.9 | 11.87 | 1.54 | 4.91 | 13.41 | 0.00 | 32.00 | 1.70 | 6.61 | 18.04 |

MECS TSIBU0441392020110 01 103. 712. 78.9 11.12
1.54 9.01 12.66 0.00 26.40 2.72 11.73 16.48
MECS TSIBU0442392020110 01 236. 1320. 63.9 12.60
1.54 18.68 14.14 0.00 32.00 7.55 26.23 19.86
ECAO TSISU0441171010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
MAPP TSISU1132262020110 01 242. 1354. 63.9 12.83
1.54 19.45 14.37 0.00 32.00 7.74 27.19 20.08
MAPP TSISU1132262020310 01 138. 772. 63.9 12.20
1.54 10.61 13.74 0.00 32.00 4.42 15.03 19.46
MAPP TSISU1142262020110 01 454. 2540. 63.9 12.17
1.54 34.83 13.71 0.00 32.00 14.53 49.36 19.43
MAPPWITSISU1341392020110 01 377. 2583. 78.2 11.24
1.54 33.01 12.78 0.00 26.40 9.95 42.96 16.64
ENTGMOTSISU0541271010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 28.60 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 560. 3870. 78.9 11.51
1.54 50.49 13.05 0.00 32.00 17.92 68.41 17.68
WUMS TSJBU0431392020110 01 177. 1104. 71.2 11.44
1.54 14.33 12.98 0.00 26.40 4.67 19.01 17.21
WUMS TSJBU0431392020310 01 37. 231. 71.2 11.26
1.54 2.95 12.80 0.00 32.00 1.18 4.14 17.93
WUMS TSJBU0432392020310 01 116. 724. 71.2 11.53
1.54 9.45 13.07 0.00 32.00 3.71 13.17 18.20
MANO TSJBU0432252020210 01 96. 537. 63.9 11.60
1.54 7.06 13.14 0.00 32.00 3.07 10.13 18.86
MANO TSJBU0441252020110 01 372. 2320. 71.2 10.81
1.54 28.65 12.35 0.00 32.00 11.90 40.55 17.48
MANO TSJBU0441252020210 01 428. 2395. 63.9 11.41
1.54 31.02 12.95 0.00 22.40 9.59 40.61 16.96
SPPNMOTSJBU0541281010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
MECS TSKBU0412391020710 01 21. 156. 85.0 13.53
1.54 2.36 15.07 0.00 32.00 0.67 3.03 19.37
MECS TSKBU0412391050710 01 15. 112. 85.0 12.99
1.54 1.62 14.53 0.00 26.40 0.40 2.02 18.08
ECAO TSKBU0441042020110 01 652. 4067. 71.2 11.44
1.54 52.78 12.98 0.00 28.50 18.58 71.36 17.55
ECAOINTSKBU0432182020110 01 161. 901. 63.9 13.89
1.54 13.90 15.43 0.00 32.00 5.15 19.05 21.15
ECAOINTSKBU0432182020210 01 56. 313. 63.9 14.00
1.54 4.87 15.54 0.00 32.00 1.79 6.66 21.26
WUMS TSKBU0411391020710 01 47. 350. 85.0 11.26
1.54 4.48 12.80 0.00 29.50 1.39 5.87 16.76
MANO TSKBU0441181010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
MANO TSKBU0441182020110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
VACANCTSKBU0632102020210 01 322. 1281. 45.4 16.96
1.54 23.70 18.50 0.00 32.00 10.30 34.00 26.54
VACANCTSKBU0641102020210 01 266. 1273. 54.6 14.86
1.54 20.87 16.40 0.00 32.00 8.51 29.39 23.08
MAPP TSKSU1141261010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 32.00 0.00 0.00 0.00
MECSMITSLBU0432152020110 01 318. 1522. 54.6 16.13
1.54 26.89 17.67 0.00 29.30 9.32 36.21 23.79
MECSMITSLBU0441152020110 01 156. 873. 63.9 14.38
1.54 13.89 15.92 0.00 26.40 4.12 18.01 20.63
ECAO TSLBU0231052020110 01 98. 548. 63.9 10.82
1.54 6.78 12.36 0.00 32.00 3.14 9.91 18.08

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | Fixed Costs | | | | | Total Costs | | | | | | |
| | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| | | | | | | | | | | | | Total | | | | | | | |
| | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | |
| | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | |
| ECAO | TSLBU0232052020110 | 01 | | | | | | | | | | 98. | 548. | 63.9 | 11.17 | | | | |
| 1.54 | 6.97 | 12.71 | 0.00 | 32.00 | 3.14 | 10.11 | 18.43 | | | | | | | | | | | | |
| ECAO | TSLBU0241052020110 | 01 | | | | | | | | | | 137. | 767. | 63.9 | 10.84 | | | | |
| 1.54 | 9.49 | 12.38 | 0.00 | 32.00 | 4.38 | 13.88 | 18.10 | | | | | | | | | | | | |
| ECAO | TSLBU0411141020710 | 01 | | | | | | | | | | 66. | 491. | 85.0 | 11.33 | | | | |
| 1.54 | 6.32 | 12.87 | 0.00 | 30.70 | 2.03 | 8.35 | 16.99 | | | | | | | | | | | | |
| ECAO | TSLBU0411141050710 | 01 | | | | | | | | | | 20. | 149. | 85.0 | 11.32 | | | | |
| 1.54 | 1.92 | 12.86 | 0.00 | 32.00 | 0.64 | 2.56 | 17.16 | | | | | | | | | | | | |
| ECAO | TSLBU0412141020710 | 01 | | | | | | | | | | 12. | 89. | 85.0 | 13.08 | | | | |
| 1.54 | 1.31 | 14.62 | 0.00 | 32.00 | 0.38 | 1.69 | 18.92 | | | | | | | | | | | | |
| ECAO | TSLBU0432141020210 | 01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | |
| ECAO | TSLBU0632182020110 | 01 | | | | | | | | | | 71. | 340. | 54.6 | 14.78 | | | | |
| 1.54 | 5.54 | 16.32 | 0.00 | 32.00 | 2.27 | 7.82 | 23.00 | | | | | | | | | | | | |
| MACENJ | TSLBU0112032020710 | 01 | | | | | | | | | | 23. | 159. | 78.9 | 18.38 | | | | |
| 1.54 | 3.17 | 19.92 | 0.00 | 26.40 | 0.61 | 3.77 | 23.74 | | | | | | | | | | | | |
| WUMSWI | TSLBU1341392020110 | 01 | | | | | | | | | | 144. | 1072. | 85.0 | 11.02 | | | | |
| 1.54 | 13.47 | 12.56 | 0.00 | 32.00 | 4.61 | 18.07 | 16.86 | | | | | | | | | | | | |
| MAPP | TSLBU1112261020710 | 01 | | | | | | | | | | 23. | 171. | 85.0 | 12.18 | | | | |
| 1.54 | 2.35 | 13.72 | 0.00 | 32.00 | 0.74 | 3.09 | 18.02 | | | | | | | | | | | | |
| MAPPNE | TSLBU1412281020310 | 01 | | | | | | | | | | 35. | 261. | 85.0 | 12.67 | | | | |
| 1.54 | 3.70 | 14.21 | 0.00 | 32.00 | 1.12 | 4.82 | 18.50 | | | | | | | | | | | | |
| SPPNMO | TSLBU0531281020110 | 01 | | | | | | | | | | 97. | 543. | 63.9 | 9.98 | | | | |
| 1.54 | 6.25 | 11.52 | 0.00 | 26.40 | 2.56 | 8.81 | 16.24 | | | | | | | | | | | | |
| TVA | TSLSU0641222020110 | 01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | |
| RMPA | TSLSU0712261020110 | 01 | | | | | | | | | | 22. | 164. | 85.0 | 13.31 | | | | |
| 1.54 | 2.43 | 14.85 | 0.00 | 32.00 | 0.70 | 3.14 | 19.14 | | | | | | | | | | | | |
| ECAO | TSXBU0641041020110 | 01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | |
| MANO | TSXBU0441192020110 | 01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 27.40 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | |
| NWPE | TSXBU0841402020110 | 01 | | | | | | | | | | 370. | 2755. | 85.0 | 7.24 | | | | |
| 1.54 | 24.18 | 8.78 | 0.00 | 28.90 | 10.69 | 34.88 | 12.66 | | | | | | | | | | | | |
| MANO | TSYBU0432191010210 | 01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | |
| MANO | TSZBU0431192020110 | 01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | |
| MANO | TSZBU0432192010210 | 01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | |
| SPPNMO | TSUBU0541272020110 | 01 | | | | | | | | | | 222. | 1653. | 85.0 | 11.42 | | | | |
| 1.54 | 21.42 | 12.96 | 0.00 | 17.40 | 3.86 | 25.29 | 15.30 | | | | | | | | | | | | |
| Unscrubbed Coal | | | | | | | | 4 | | | | 91978. | 619207. | 76.9 | 12.08 | | | | |
| 1.54 | 8431.77 | 13.62 | 0.00 | 27.13 | 2495.08 | 10926.84 | 17.65 | | | | | | | | | | | | |
| MECS | STGAU0411 | 000000 | 00 | | | | | | | | | 65. | 0. | N/A | 0.00 | | | | |

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 0.00     0.00     0.00     0.00    19.60     1.27     1.27     0.00
MECS  STGAU0412   000000 00                    20.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.43     0.43     0.00
MECS  STGAU0421   000000 00                    44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.94     0.94     0.00
ECAO  STGAU0211   000000 00                    35.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.75     0.75     0.00
ECAO  STGAU0221   000000 00                    88.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.88     1.88     0.00
ECAO  STGAU0411   000000 00                     6.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     0.12     0.12     0.00
ECAO  STGAU0421   000000 00                   308.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     6.59     6.59     0.00
ECAO  STGAU0611   000000 00                    58.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.24     1.24     0.00
ERCTTXSTGAU2011   000000 00                    96.     101.     12.0    31.68
 2.57     3.47    34.25     0.00    21.40     2.05     5.52    54.55
ERCTTXSTGAU2021   000000 00                    78.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.67     1.67     0.00
ERCTTXSTGAU2211   000000 00                    12.      13.     12.0    31.68
 2.57     0.43    34.25     0.00    21.40     0.26     0.69    54.55
ERCTTXSTGAU2221   000000 00                    30.      32.     12.0    31.68
 2.57     1.08    34.25     0.00    21.40     0.64     1.73    54.55
ERCTTXSTGAU2511   000000 00                   144.     152.     12.0    31.68
 2.57     5.20    34.25     0.00    21.40     3.08     8.28    54.55
ERCTTXSTGAU2521   000000 00                   205.     216.     12.0    31.68
 2.57     7.40    34.25     0.00    21.40     4.39    11.79    54.55
ERCTTXSTGAU2711   000000 00                    11.      12.     12.0    31.68
 2.57     0.40    34.25     0.00    10.70     0.12     0.51    44.40
MACE  STGAU0111   000000 00                    26.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.56     0.56     0.00
MACE  STGAU0121   000000 00                    54.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.16     1.16     0.00
MACE  STGAU0211   000000 00                    12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.26     0.26     0.00
MACE  STGAU0221   000000 00                    60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.64     0.64     0.00
WUMS  STGAU0412   000000 00                    18.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.39     0.39     0.00
WUMSWISTGAU1311   000000 00                    73.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     1.52     1.52     0.00
WUMSWISTGAU1321   000000 00                    58.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.24     1.24     0.00
MANO  STGAU0411   000000 00                    37.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.79     0.79     0.00
MANO  STGAU0421   000000 00                   377.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     8.07     8.07     0.00
MANOMOSTGAU0511   000000 00                    70.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.50     1.50     0.00
MAPP  STGAU1111   000000 00                   151.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     3.23     3.23     0.00
MAPP  STGAU1112   000000 00                    20.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.43     0.43     0.00
MAPP  STGAU1121   000000 00                   159.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     3.40     3.40     0.00
MAPPMOSTGAU0511   000000 00                    34.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.73     0.73     0.00
MAPPNESTGAU1411   000000 00                    19.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.41     0.41     0.00
MAPPWISTGAU1311   000000 00                    29.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.62     0.62     0.00
```

Total Annual Costs
Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | | Gener. | | C.F. | | Fuel | | | |
| VOM | | Total | | Capital | | FOM | | | | Total | | | | Total | | | | | | | | | |
| Unit | Name | | | | | | | | | [MW] | | | | [GWh] | | | | [%] | | mill/kWh | | mill/kWh | |
| | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | MMUS$ | | | | MMUS$ | | | | mill/kWh | | | | | |
| UPNY | STGAU0121 | 000000 | 00 | | | | | | | 0. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | 0.00 | | | | 0.00 | | | | 0.00 | | | | | |
| NYC | STGAU0121 | 000000 | 00 | | | | | | | 163. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 3.49 | | | | 3.49 | | | | 0.00 | | | | | |
| LILC | STGAU0121 | 000000 | 00 | | | | | | | 0. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.00 | | | | 0.00 | | | | 0.00 | | | | | |
| NENG | STGAU0111 | 000000 | 00 | | | | | | | 29. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.62 | | | | 0.62 | | | | 0.00 | | | | | |
| NENG | STGAU0121 | 000000 | 00 | | | | | | | 102. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 10.70 | | 1.09 | | | | 1.09 | | | | 0.00 | | | | | |
| NENG | STGAU0911 | 000000 | 00 | | | | | | | 23. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.49 | | | | 0.49 | | | | 0.00 | | | | | |
| NENG | STGAU0921 | 000000 | 00 | | | | | | | 98. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 2.10 | | | | 2.10 | | | | 0.00 | | | | | |
| NENGCT | STGAU3221 | 000000 | 00 | | | | | | | 73. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 1.56 | | | | 1.56 | | | | 0.00 | | | | | |
| FRCCFL | STGAU1511 | 000000 | 00 | | | | | | | 87. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 1.86 | | | | 1.86 | | | | 0.00 | | | | | |
| FRCCFL | STGAU1521 | 000000 | 00 | | | | | | | 1836. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.90 | | 36.54 | | | | 36.54 | | | | 0.00 | | | | | |
| VACA | STGAU0621 | 000000 | 00 | | | | | | | 92. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 1.97 | | | | 1.97 | | | | 0.00 | | | | | |
| SOU | STGAU0611 | 000000 | 00 | | | | | | | 81. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 18.00 | | 1.46 | | | | 1.46 | | | | 0.00 | | | | | |
| SOU | STGAU0621 | 000000 | 00 | | | | | | | 271. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 18.40 | | 4.99 | | | | 4.99 | | | | 0.00 | | | | | |
| SOU MS | STGAU1621 | 000000 | 00 | | | | | | | 170. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 3.64 | | | | 3.64 | | | | 0.00 | | | | | |
| ENTG | STGAU1011 | 000000 | 00 | | | | | | | 0. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.90 | | 0.00 | | | | 0.00 | | | | 0.00 | | | | | |
| ENTG | STGAU1021 | 000000 | 00 | | | | | | | 188. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.80 | | 3.72 | | | | 3.72 | | | | 0.00 | | | | | |
| ENTGMS | STGAU1611 | 000000 | 00 | | | | | | | 36. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | 0.71 | | | | 0.71 | | | | 0.00 | | | | | |
| SPPN | STGAU1711 | 000000 | 00 | | | | | | | 76. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 1.63 | | | | 1.63 | | | | 0.00 | | | | | |
| SPPN | STGAU1721 | 000000 | 00 | | | | | | | 98. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 2.10 | | | | 2.10 | | | | 0.00 | | | | | |
| SPPNMO | STGAU0511 | 000000 | 00 | | | | | | | 5. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.11 | | | | 0.11 | | | | 0.00 | | | | | |
| SPPNMO | STGAU0521 | 000000 | 00 | | | | | | | 73. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 1.56 | | | | 1.56 | | | | 0.00 | | | | | |
| SPPS | STGAU1011 | 000000 | 00 | | | | | | | 60. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 1.28 | | | | 1.28 | | | | 0.00 | | | | | |
| SPPS | STGAU1021 | 000000 | 00 | | | | | | | 80. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 1.71 | | | | 1.71 | | | | 0.00 | | | | | |
| SPPS | STGAU3611 | 000000 | 00 | | | | | | | 46. | | | | 0. | | | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.98 | | | | 0.98 | | | | 0.00 | | | | | |

SPPS STGAU3621 000000 00 80. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 1.71 1.71 0.00
SPPSMSSTGAU1611 000000 00 49. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 1.05 1.05 0.00
SPPSTXSTGAU2211 000000 00 50. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 1.07 1.07 0.00
SPPSTXSTGAU2511 000000 00 23. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.49 0.49 0.00
SPPSTXSTGAU2521 000000 00 48. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 1.03 1.03 0.00
SPPSTXSTGAU3511 000000 00 22. 0. N/A 0.00
0.00 0.00 0.00 0.00 10.70 0.24 0.24 0.00
CALI STGAU0811 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.00 0.00 0.00
CALI STGAU0821 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.00 0.00 0.00
AZNM STGAU0811 000000 00 30. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.64 0.64 0.00
AZNM STGAU0821 000000 00 76. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 1.63 1.63 0.00
RMPA STGAU0811 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.00 0.00 0.00
RMPA STGAU0821 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.00 0.00 0.00
NWPE STGAU0822 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.00 0.00 0.00
MECS STHSU0411 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.00 0.00 0.00
MECS STHSU0421 000000 00 1035. 1623. 17.9 30.81
2.57 54.19 33.38 0.00 17.10 17.70 71.89 44.29
MECS STHSU0422 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 19.60 0.00 0.00 0.00
ERCTTXSTHSU1821 000000 00 2984. 0. N/A 0.00
0.00 0.00 0.00 0.00 20.20 60.28 60.28 0.00
ERCTTXSTHSU2021 000000 00 893. 941. 12.0 29.73
2.57 30.40 32.30 0.00 20.60 18.39 48.79 51.85
ERCTTXSTHSU2221 000000 00 3693. 6651. 20.6 29.26
2.57 211.69 31.83 0.00 20.00 73.86 285.55 42.93
ERCTTXSTHSU2321 000000 00 356. 1102. 35.3 29.41
2.57 35.24 31.98 0.00 19.70 7.01 42.25 38.34
ERCTTXSTHSU2421 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 20.20 0.00 0.00 0.00
ERCTTXSTHSU2521 000000 00 2276. 6456. 32.4 29.14
2.57 204.71 31.71 0.00 20.40 46.43 251.14 38.90
MACE STHSU0112 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.00 0.00 0.00
MACE STHSU0121 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.00 0.00 0.00
MACE STHSU0211 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.00 0.00 0.00
MACE STHSU0221 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 19.70 0.00 0.00 0.00
MACE STHSU0222 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 19.70 0.00 0.00 0.00
MACW STHSU0221 000000 00 1592. 0. N/A 0.00
0.00 0.00 0.00 0.00 19.70 31.36 31.36 0.00
MACS STHSU0222 000000 00 550. 0. N/A 0.00
0.00 0.00 0.00 0.00 19.70 10.84 10.84 0.00
DSNY STHSU0121 000000 00 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 21.40 0.00 0.00 0.00
LILC STHSU0121 000000 00 640. 0. N/A 0.00
0.00 0.00 0.00 0.00 20.60 13.19 13.19 0.00

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | | Gener. | | C.F. | | Fuel | | | |
| VOM | | Total | | Capital | | FOM | | Total | | | | | | [MW] | | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| Unit Name | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | MMUS$ | | MMUS$ | | mill/kWh | | | | | |
| NENG | STHSU0122 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| NENG | STHSU0921 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| NENG | STHSU0922 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| NENG | STHSU2821 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.30 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| NENG | STHSU2822 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.20 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| NENGCT | STHSU3221 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| NENGCT | STHSU3222 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| NENGNH | STHSU2922 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| FRCCFL | STHSU1511 | 000000 | 00 | | | | | | | | | | | 15. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.32 | | 0.32 | | 0.00 | | | | | | | | | |
| FRCCFL | STHSU1521 | 000000 | 00 | | | | | | | | | | | 1658. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.00 | | 34.82 | | 34.82 | | 0.00 | | | | | | | | | |
| FRCCFL | STHSU1522 | 000000 | 00 | | | | | | | | | | | 455. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 9.74 | | 9.74 | | 0.00 | | | | | | | | | |
| SOU | STHSU0621 | 000000 | 00 | | | | | | | | | | | 79. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 1.69 | | 1.69 | | 0.00 | | | | | | | | | |
| SOU | STHSU0622 | 000000 | 00 | | | | | | | | | | | 40. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.86 | | 0.86 | | 0.00 | | | | | | | | | |
| ENTGMS | STHSU1621 | 000000 | 00 | | | | | | | | | | | 761. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | 14.99 | | 14.99 | | 0.00 | | | | | | | | | |
| ENTGTX | STHSU2721 | 000000 | 00 | | | | | | | | | | | 485. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 15.70 | | 7.61 | | 7.61 | | 0.00 | | | | | | | | | |
| ENTGTX | STHSU3421 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.80 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| SPPN | STHSU1711 | 000000 | 00 | | | | | | | | | | | 9. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.19 | | 0.19 | | 0.00 | | | | | | | | | |
| SPPN | STHSU1712 | 000000 | 00 | | | | | | | | | | | 38. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.50 | | 0.78 | | 0.78 | | 0.00 | | | | | | | | | |
| SPPN | STHSU1721 | 000000 | 00 | | | | | | | | | | | 1104. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.20 | | 23.40 | | 23.40 | | 0.00 | | | | | | | | | |
| SPPN | STHSU1722 | 000000 | 00 | | | | | | | | | | | 362. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.50 | | 7.42 | | 7.42 | | 0.00 | | | | | | | | | |
| CALI | STHSU0821 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| CALI | STHSU0822 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| RMPA | STHSU0812 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| RMPA | STHSU0822 | 000000 | 00 | | | | | | | | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |

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ECAO  STLSU0222   000000 00                    44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.94     0.94     0.00
ECAO  STLSU0411   000000 00                    25.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.54     0.54     0.00
ECAO  STLSU0421   000000 00                   100.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.14     2.14     0.00
ERCTTXSTLSU1821   000000 00                  2829.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    58.84    58.84     0.00
ERCTTXSTLSU1822   000000 00                   352.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     7.53     7.53     0.00
ERCTTXSTLSU2011   000000 00                    16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.34     0.34     0.00
ERCTTXSTLSU2012   000000 00                    35.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.75     0.75     0.00
ERCTTXSTLSU2021   000000 00                   285.     225.      9.0    30.66
 2.57     7.49    33.23     0.00    20.70     5.90    13.39    59.41
ERCTTXSTLSU2022   000000 00                  1120.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.70    23.18    23.18     0.00
ERCTTXSTLSU2122   000000 00                  1066.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    21.00    21.00     0.00
ERCTTXSTLSU2212   000000 00                   126.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.70     2.70     0.00
ERCTTXSTLSU2221   000000 00                  4296.    4529.     12.0    30.26
 2.57   148.67    32.83     0.00    20.60    88.50   237.17    52.37
ERCTTXSTLSU2222   000000 00                  1942.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    40.39    40.39     0.00
ERCTTXSTLSU2321   000000 00                   405.     747.     21.1    29.89
 2.57    24.26    32.46     0.00    19.70     7.98    32.24    43.13
ERCTTXSTLSU2322   000000 00                   146.     154.     12.0    33.08
 2.57     5.49    35.65     0.00    19.70     2.88     8.36    54.33
ERCTTXSTLSU2422   000000 00                    87.      92.     12.0    32.93
 2.57     3.26    35.50     0.00    21.40     1.86     5.12    55.80
ERCTTXSTLSU2511   000000 00                    11.      12.     12.0    31.68
 2.57     0.40    34.25     0.00    21.40     0.24     0.63    54.55
ERCTTXSTLSU2512   000000 00                    75.      79.     12.0    34.37
 2.57     2.92    36.94     0.00    21.40     1.60     4.53    57.24
ERCTTXSTLSU2521   000000 00                   726.     765.     12.0    31.22
 2.57    25.86    33.79     0.00    20.20    14.67    40.53    52.95
ERCTTXSTLSU2522   000000 00                   386.     305.      9.0    34.42
 2.57    11.29    36.99     0.00    21.10     8.14    19.43    63.68
ERCTTXSTLSU3521   000000 00                   204.     647.     36.2    30.44
 2.57    21.37    33.01     0.00    19.70     4.02    25.39    39.22
ERCTTXSTLSU3522   000000 00                   111.     117.     12.0    33.10
 2.57     4.17    35.67     0.00    19.70     2.19     6.36    54.36
MACE  STLSU0121   000000 00                  1214.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    25.98    25.98     0.00
MACE  STLSU0122   000000 00                   558.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    11.94    11.94     0.00
MACE  STLSU0221   000000 00                   493.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    10.55    10.55     0.00
MACE  STLSU0222   000000 00                   884.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.00    17.68    17.68     0.00
MACS  STLSU0221   000000 00                   612.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     6.55     6.55     0.00
MACS  STLSU0222   000000 00                  1492.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10    29.99    29.99     0.00
MANO  STLSU0412   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.24     0.24     0.00
MANO  STLSU0421   000000 00                  2866.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.00    54.45    54.45     0.00
MAPP  STLSU0711   000000 00                    18.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.39     0.39     0.00
```

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | | C.F. | | Fuel | | | |
| VOM | | | Total | | | Capital | | FOM | | | Total | | | | | Total | | | | | | | |
| Unit | Name | | | | | | | | | | [MW] | | | | | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | MMUS$ | | | | | MMUS$ | | mill/kWh | | | | | |
| MAPP | STLSU0721 | | 000000 | 00 | | | | | | | 43. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.92 | | | | | 0.92 | | 0.00 | | | | | |
| MAPP | STLSU1111 | | 000000 | 00 | | | | | | | 71. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 1.52 | | | | | 1.52 | | 0.00 | | | | | |
| MAPP | STLSU1112 | | 000000 | 00 | | | | | | | 23. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.90 | | | 0.46 | | | | | 0.46 | | 0.00 | | | | | |
| MAPPNE | STLSU1412 | | 000000 | 00 | | | | | | | 72. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 1.54 | | | | | 1.54 | | 0.00 | | | | | |
| MAPPNE | STLSU1421 | | 000000 | 00 | | | | | | | 107. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 2.29 | | | | | 2.29 | | 0.00 | | | | | |
| MAPPNE | STLSU1422 | | 000000 | 00 | | | | | | | 54. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | | 1.06 | | | | | 1.06 | | 0.00 | | | | | |
| UPNY | STLSU0121 | | 000000 | 00 | | | | | | | 820. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 15.70 | | | 12.87 | | | | | 12.87 | | 0.00 | | | | | |
| DSNY | STLSU0121 | | 000000 | 00 | | | | | | | 2619. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.90 | | | 52.12 | | | | | 52.12 | | 0.00 | | | | | |
| NYC | STLSU0121 | | 000000 | 00 | | | | | | | 4747. | | | | | 12332. | | 29.7 | | 35.50 | | 2.57 | |
| 469.43 | | 38.07 | | 0.00 | | 0.00 | | 20.90 | | | 99.21 | | | | | 568.65 | | 46.11 | | | | | |
| NYC | STLSU0122 | | 000000 | 00 | | | | | | | 130. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 2.78 | | | | | 2.78 | | 0.00 | | | | | |
| LILC | STLSU0121 | | 000000 | 00 | | | | | | | 826. | | | | | 1203. | | 16.6 | | 35.74 | | 2.57 | |
| 46.08 | | 38.31 | | 0.00 | | 0.00 | | 20.70 | | | 17.10 | | | | | 63.18 | | 52.53 | | | | | |
| NENG | STLSU0121 | | 000000 | 00 | | | | | | | 805. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 17.23 | | | | | 17.23 | | 0.00 | | | | | |
| NENG | STLSU0922 | | 000000 | 00 | | | | | | | 50. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 10.70 | | | 0.54 | | | | | 0.54 | | 0.00 | | | | | |
| NENG | STLSU2821 | | 000000 | 00 | | | | | | | 588. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | | 11.58 | | | | | 11.58 | | 0.00 | | | | | |
| NENGCT | STLSU3221 | | 000000 | 00 | | | | | | | 610. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.20 | | | 12.32 | | | | | 12.32 | | 0.00 | | | | | |
| NENGCT | STLSU3222 | | 000000 | 00 | | | | | | | 402. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | | 7.92 | | | | | 7.92 | | 0.00 | | | | | |
| FRCCFL | STLSU1511 | | 000000 | 00 | | | | | | | 49. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 1.05 | | | | | 1.05 | | 0.00 | | | | | |
| FRCCFL | STLSU1512 | | 000000 | 00 | | | | | | | 38. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.81 | | | | | 0.81 | | 0.00 | | | | | |
| FRCCFL | STLSU1521 | | 000000 | 00 | | | | | | | 6501. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.30 | | | 125.47 | | | | | 125.47 | | 0.00 | | | | | |
| FRCCFL | STLSU1522 | | 000000 | 00 | | | | | | | 694. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.90 | | | 14.50 | | | | | 14.50 | | 0.00 | | | | | |
| VACAVA | STLSU0321 | | 000000 | 00 | | | | | | | 818. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | | 16.11 | | | | | 16.11 | | 0.00 | | | | | |
| VACAVA | STLSU0322 | | 000000 | 00 | | | | | | | 929. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.00 | | | 18.58 | | | | | 18.58 | | 0.00 | | | | | |
| SOU MS | STLSU1621 | | 000000 | 00 | | | | | | | 193. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 4.13 | | | | | 4.13 | | 0.00 | | | | | |
| SOU MS | STLSU1622 | | 000000 | 00 | | | | | | | 264. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.30 | | | 5.36 | | | | | 5.36 | | 0.00 | | | | | |

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ENTG  STLSU1021   000000 00                    3566.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10    71.67    71.67     0.00
ENTG  STLSU1022   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00                    532.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    10.48    10.48     0.00
SPPNMOSTLSU0512   000000 00                     16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.34     0.34     0.00
SPPNMOSTLSU0521   000000 00                     44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.47     0.47     0.00
SPPS  STLSU0821   000000 00                    314.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     6.72     6.72     0.00
SPPS  STLSU0822   000000 00                     71.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.52     1.52     0.00
SPPS  STLSU1011   000000 00                     37.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     0.77     0.77     0.00
SPPS  STLSU1012   000000 00                    140.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10     2.81     2.81     0.00
SPPS  STLSU1021   000000 00                   1721.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.30    34.94    34.94     0.00
SPPS  STLSU1022   000000 00                    649.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    13.50    13.50     0.00
SPPS  STLSU3612   000000 00                     24.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.51     0.51     0.00
SPPS  STLSU3621   000000 00                   4755.    3399.      8.2    28.87
 2.57   106.87    31.44     0.00    20.10    95.58   202.44    59.56
SPPS  STLSU3622   000000 00                    805.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.30    17.15    17.15     0.00
SPPSMSSTLSU1612   000000 00                     30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.64     0.64     0.00
SPPSTXSTLSU2221   000000 00                   1219.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.00    24.38    24.38     0.00
SPPSTXSTLSU2222   000000 00                    127.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.72     2.72     0.00
SPPSTXSTLSU2521   000000 00                   1134.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.30    23.02    23.02     0.00
SPPSTXSTLSU2522   000000 00                    255.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     5.46     5.46     0.00
SPPSTXSTLSU3522   000000 00                     54.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     1.06     1.06     0.00
CALI  STLSU0821   000000 00                   5179.   20622.     45.5    30.92
 2.57   690.62    33.49     0.00    20.90   108.24   798.86    38.74
CALI  STLSU0822   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
PNW   STLSU0721   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.00     0.00     0.00
AZNM  STLSU0812   000000 00                     39.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.83     0.83     0.00
AZNM  STLSU0821   000000 00                   1054.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.10    22.24    22.24     0.00
AZNM  STLSU0822   000000 00                    815.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    17.44    17.44     0.00
AZNMTXSTLSU2621   000000 00                    266.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     5.69     5.69     0.00
NWPE  STLSU0821   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10     0.00     0.00     0.00
NWPE  STLSU0822   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | NUKE | 00 | 7000000 | 00 | | | 561. | 4481. | 91.2 | 4.49 |
| 0.82 | 23.78 | 5.31 | 0.00 | 176.10 | | | 98.79 | 122.57 | 27.35 | |
| NENG | NUKE | 00 | 8000000 | 00 | | | 675. | 5407. | 91.4 | 4.19 |
| 1.32 | 29.81 | 5.51 | 0.00 | 254.10 | | | 171.52 | 201.33 | 37.23 | |
| MAPP | NUKE | 00 | 7000000 | 00 | | | 529. | 4265. | 92.0 | 4.44 |
| 0.59 | 21.44 | 5.03 | 0.00 | 95.60 | | | 50.57 | 72.01 | 16.89 | |
| MANO | NUKE | 00 | 8000000 | 00 | | | 1072. | 8508. | 90.6 | 4.13 |
| 1.32 | 46.39 | 5.45 | 0.00 | 184.60 | | | 197.89 | 244.28 | 28.71 | |
| SPPN | NUKE | 00 | 7000000 | 00 | | | 1182. | 9752. | 94.2 | 4.02 |
| 0.56 | 44.69 | 4.58 | 0.00 | 92.90 | | | 109.81 | 154.49 | 15.84 | |
| MACE | NUKE | 00 | 7000000 | 00 | | | 1155. | 9162. | 90.6 | 4.44 |
| 0.98 | 49.68 | 5.42 | 0.00 | 191.50 | | | 221.18 | 270.86 | 29.56 | |
| MACE | NUKE | 00 | 8000000 | 00 | | | 1112. | 9099. | 93.4 | 4.30 |
| 0.64 | 44.95 | 4.94 | 0.00 | 165.10 | | | 183.59 | 228.54 | 25.12 | |
| MACE | NUKE | 00 | 8000000 | 00 | | | 1109. | 9171. | 94.4 | 4.34 |
| 0.64 | 45.71 | 4.98 | 0.00 | 165.10 | | | 183.10 | 228.81 | 24.95 | |
| VACA | NUKE | 00 | 8000000 | 00 | | | 701. | 5899. | 96.1 | 4.19 |
| 0.51 | 27.71 | 4.70 | 0.00 | 137.70 | | | 96.53 | 124.23 | 21.06 | |
| VACA | NUKE | 00 | 8000000 | 00 | | | 854. | 6741. | 90.1 | 4.29 |
| 0.66 | 33.36 | 4.95 | 0.00 | 147.10 | | | 125.62 | 158.98 | 23.58 | |
| VACA | NUKE | 00 | 8000000 | 00 | | | 854. | 7114. | 95.1 | 4.25 |
| 0.66 | 34.93 | 4.91 | 0.00 | 147.10 | | | 125.62 | 160.55 | 22.57 | |
| CALI | NUKE | 00 | 7000000 | 00 | | | 1086. | 9079. | 95.4 | 4.07 |
| 0.86 | 44.79 | 4.93 | 0.00 | 140.30 | | | 152.37 | 197.16 | 21.72 | |
| NENG | NUKE | 00 | 7000000 | 00 | | | 506. | 4300. | 97.0 | 4.17 |
| 1.18 | 23.01 | 5.35 | 0.00 | 240.70 | | | 121.79 | 144.80 | 33.67 | |
| VACA | NUKE | 00 | 8000000 | 00 | | | 909. | 7394. | 92.9 | 4.15 |
| 0.46 | 34.07 | 4.61 | 0.00 | 134.20 | | | 121.99 | 156.06 | 21.11 | |
| ENTG | NUKE | 00 | 8000000 | 00 | | | 1141. | 9483. | 94.9 | 4.34 |
| 0.67 | 47.53 | 5.01 | 0.00 | 131.60 | | | 150.16 | 197.68 | 20.85 | |
| TVA | NUKE | 00 | 7000000 | 00 | | | 2429. | 18010. | 84.6 | 4.30 |
| 0.32 | 83.15 | 4.62 | 0.00 | 109.50 | | | 265.98 | 349.13 | 19.39 | |
| TVA | NUKE | 00 | 7000000 | 00 | | | 1244. | 10506. | 96.4 | 4.30 |
| 0.32 | 48.51 | 4.62 | 0.00 | 109.50 | | | 136.22 | 184.73 | 17.58 | |
| AZNM | NUKE | 00 | 7000000 | 00 | | | 1255. | 10272. | 93.4 | 4.38 |
| 0.42 | 49.32 | 4.80 | 0.00 | 84.20 | | | 105.67 | 154.99 | 15.09 | |
| AZNM | NUKE | 00 | 7000000 | 00 | | | 1310. | 10334. | 90.1 | 4.33 |
| 0.42 | 49.04 | 4.75 | 0.00 | 84.20 | | | 110.30 | 159.34 | 15.42 | |
| MACS | NUKE | 00 | 9000000 | 00 | | | 875. | 7212. | 94.1 | 4.47 |
| 0.61 | 36.66 | 5.08 | 0.00 | 161.00 | | | 140.88 | 177.53 | 24.62 | |
| MACS | NUKE | 00 | 9000000 | 00 | | | 850. | 6854. | 92.0 | 4.48 |
| 0.61 | 34.90 | 5.09 | 0.00 | 161.00 | | | 136.85 | 171.75 | 25.06 | |
| VACA | NUKE | 00 | 7000000 | 00 | | | 915. | 7772. | 97.0 | 4.13 |
| 0.42 | 35.34 | 4.55 | 0.00 | 132.10 | | | 120.87 | 156.21 | 20.10 | |
| VACA | NUKE | 00 | 7000000 | 00 | | | 904. | 7575. | 95.7 | 4.31 |
| 0.42 | 35.85 | 4.73 | 0.00 | 132.10 | | | 119.42 | 155.27 | 20.50 | |
| MANO | NUKE | 00 | 7000000 | 00 | | | 1182. | 10014. | 96.7 | 4.24 |
| 0.51 | 47.58 | 4.75 | 0.00 | 91.60 | | | 108.27 | 155.85 | 15.56 | |
| MANO | NUKE | 00 | 7000000 | 00 | | | 1175. | 9929. | 96.5 | 4.24 |
| 0.51 | 47.18 | 4.75 | 0.00 | 91.60 | | | 107.63 | 154.81 | 15.59 | |
| MANO | NUKE | 00 | 7000000 | 00 | | | 1255. | 10267. | 93.4 | 4.28 |
| 0.50 | 49.12 | 4.78 | 0.00 | 88.40 | | | 110.94 | 160.06 | 15.59 | |
| MANO | NUKE | 00 | 7000000 | 00 | | | 1222. | 10139. | 94.7 | 4.20 |
| 0.50 | 47.64 | 4.70 | 0.00 | 88.40 | | | 108.02 | 155.67 | 15.35 | |
| MANO | NUKE | 00 | 7000000 | 00 | | | 1128. | 9644. | 97.6 | 4.36 |
| 0.78 | 49.58 | 5.14 | 0.00 | 112.50 | | | 126.90 | 176.48 | 18.30 | |
| MANO | NUKE | 00 | 7000000 | 00 | | | 1131. | 9318. | 94.0 | 4.41 |
| 0.78 | 48.41 | 5.19 | 0.00 | 112.50 | | | 127.24 | 175.64 | 18.85 | |
| VACA | NUKE | 00 | 7000000 | 00 | | | 1140. | 9496. | 95.1 | 4.15 |
| 0.47 | 43.91 | 4.62 | 0.00 | 83.40 | | | 95.08 | 138.99 | 14.64 | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.246
Total Annual Costs
Year: 2010

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ENTG  NUKE 00    7000000 00                    893.    7125.     91.1     4.56
 0.56    36.51     5.12     0.00   166.00   148.24   184.75    25.93
MANO  NUKE 00    7000000 00                    850.    7249.     97.4     4.59
 0.86    39.50     5.45     0.00   196.50   167.03   206.53    28.49
MANO  NUKE 00    7000000 00                    855.    7203.     96.2     4.51
 0.94    39.25     5.45     0.00   188.00   160.74   199.99    27.77
MANO  NUKE 00    7000000 00                    855.    6878.     91.8     4.52
 0.94    37.55     5.46     0.00   188.00   160.74   198.29    28.83
DSNY  NUKE 00    8000000 00                    984.    8221.     95.4     4.25
 1.03    43.44     5.28     0.00   195.30   192.18   235.62    28.66
ERCT  NUKE 00    7000000 00                   1241.    9745.     89.6     4.36
 0.52    47.51     4.88     0.00    81.80   101.51   149.02    15.29
MECS  NUKE 00    8000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    7000000 00                   1110.    8748.     90.0     5.30
 0.75    52.94     6.05     0.00   109.80   121.88   174.82    19.98
MAPP  NUKE 00    7000000 00                    597.    4322.     82.6     4.31
 0.70    21.64     5.01     0.00   109.60    65.43    87.07    20.15
MAPP  NUKE 00    7000000 00                    530.    4126.     88.9     4.43
 0.59    20.70     5.02     0.00   145.60    77.17    97.87    23.72
MAPP  NUKE 00    7000000 00                    476.    3704.     88.8     4.38
 1.20    20.69     5.58     0.00   232.50   110.67   131.36    35.46
MACE  NUKE 00    8000000 00                    605.    4434.     83.7     4.42
 1.32    25.48     5.74     0.00   254.60   154.03   179.51    40.48
MACE  NUKE 00    7000000 00                   1150.    9049.     89.8     4.40
 0.98    48.71     5.38     0.00   141.50   162.72   211.44    23.37
DSNY  NUKE 00    7000000 00                    967.    6350.     75.0     4.17
 1.25    34.40     5.42     0.00   237.60   229.76   264.16    41.60
UPNY  NUKE 00    8000000 00                    619.    4508.     83.1     4.42
 1.07    24.77     5.49     0.00   206.50   127.82   152.59    33.85
UPNY  NUKE 00    7000000 00                   1154.    8964.     88.7     4.42
 0.78    46.65     5.20     0.00   117.70   135.83   182.48    20.36
VACA  NUKE 00    8000000 00                    854.    5994.     80.1     4.26
 0.66    29.51     4.92     0.00   147.10   125.62   155.14    25.88
CALI  NUKE 00    7000000 00                   1096.    8160.     85.0     4.07
 0.86    40.26     4.93     0.00   140.30   153.77   194.03    23.78
PNW   NUKE 00    7000000 00                   1123.    8851.     90.0     4.15
 0.66    42.54     4.81     0.00   103.70   116.46   159.00    17.96
VACA  NUKE 00    8000000 00                    891.    6867.     88.0     4.15
 0.46    31.64     4.61     0.00   134.20   119.57   151.21    22.02
WUMS  NUKE 00    8000000 00                    512.    3972.     88.6     4.28
 0.98    20.91     5.26     0.00   195.70   100.20   121.11    30.49
WUMS  NUKE 00    8000000 00                    514.    3987.     88.6     4.33
 0.98    21.16     5.31     0.00   195.70   100.59   121.75    30.54
NENG  NUKE 00    8000000 00                    872.    6860.     89.8     4.18
 1.17    36.72     5.35     0.00   211.90   184.78   221.50    32.29
NENG  NUKE 00    8000000 00                   1157.    9120.     90.0     4.10
 1.23    48.65     5.33     0.00   158.10   182.92   231.57    25.39
ECAO  NUKE 00    8000000 00                   1017.    6679.     75.0     4.42
 1.14    37.12     5.56     0.00   206.80   210.32   247.43    37.05
ECAO  NUKE 00    8000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00                    851.    5956.     79.9     4.53
 0.65    30.86     5.18     0.00   150.80   128.33   159.19    26.73
SOU   NUKE 00    7000000 00                    860.    6777.     90.0     4.53
 0.65    35.12     5.18     0.00   100.80    86.69   121.81    17.97
AZNM  NUKE 00    7000000 00                   1259.    9926.     90.0     4.30
 0.42    46.86     4.72     0.00    84.20   106.01   152.87    15.40
VACA  NUKE 00    7000000 00                    940.    6810.     82.7     4.17
 0.53    32.01     4.70     0.00    99.90    93.91   125.92    18.49
ECAO  NUKE 00    7000000 00                   1238.    9509.     87.7     4.23
 0.60    45.92     4.83     0.00   109.60   135.68   181.60    19.10
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Total Annual Costs

Year: 2010

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DSNY  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.248
Total Annual Costs
Year: 2010

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MACS  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Nuclear                          7           99289.  790720.     90.9     4.34
 0.66  3952.23     5.00     0.00   129.86 12893.28 16845.51    21.30

MECS  HYDRO00     000000 00                   158.    1013.     73.2     0.00
 0.00     0.00     0.00     0.00    15.40     2.43     2.43     2.40
ECAO  HYDRO00     000000 00                  1109.    2974.     30.6     0.00
 0.00     0.00     0.00     0.00    15.00    16.64    16.64     5.59
ERCT  HYDRO00     000000 00                   356.     796.     25.5     0.00
 0.00     0.00     0.00     0.00    15.50     5.52     5.52     6.93
MACE  HYDRO00     000000 00                   522.    4115.     90.0     0.00
 0.00     0.00     0.00     0.00    15.50     8.09     8.09     1.97
MACW  HYDRO00     000000 00                   649.    2144.     37.7     0.00
 0.00     0.00     0.00     0.00    14.90     9.67     9.67     4.51
MACS  HYDRO00     000000 00                    18.      59.     37.3     0.00
 0.00     0.00     0.00     0.00    15.50     0.28     0.28     4.74
WUMS  HYDRO00     000000 00                   354.    1683.     54.3     0.00
 0.00     0.00     0.00     0.00    15.40     5.45     5.45     3.24
MANO  HYDRO00     000000 00                   362.    1826.     57.6     0.00
 0.00     0.00     0.00     0.00    15.50     5.61     5.61     3.07
MAPP  HYDRO00     000000 00                  3204.    9989.     35.6     0.00
 0.00     0.00     0.00     0.00    15.40    49.34    49.34     4.94
UPNY  HYDRO00     000000 00                  5551.   25889.     53.2     0.00
 0.00     0.00     0.00     0.00    15.50    86.04    86.04     3.32
DSNY  HYDRO00     000000 00                   442.    2061.     53.2     0.00
 0.00     0.00     0.00     0.00    14.60     6.45     6.45     3.13
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Total Annual Costs

Year: 2010

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 1.03     0.18    34.05     0.00    14.90     0.10     0.28    54.22
ERCTTXCC   2322   000000 00                  4495.   26699.     67.8    22.22
 1.03   620.62    23.25     0.00    13.90    62.48   683.10    25.59
ERCTTXCC   2513   000000 00                    22.      49.     25.3    28.30
 1.03     1.43    29.33     0.00    19.90     0.44     1.87    38.30
ERCTTXCC   2514   000000 00                     3.       2.      8.4    35.26
 1.03     0.08    36.29     0.00    19.90     0.06     0.14    63.23
ERCTTXCC   2523   000000 00                   103.     229.     25.3    28.30
 1.03     6.70    29.33     0.00    19.90     2.05     8.75    38.30
ERCTTXCC   2524   000000 00                    36.      27.      8.4    35.26
 1.03     0.97    36.29     0.00    19.90     0.72     1.68    63.23
ERCTTXCC   2722   000000 00                  8847.   67874.     87.6    22.22
 1.03  1577.76    23.25     0.00    13.90   122.97  1700.73    25.06
ERCTTXCC   3522   000000 00                  2623.   20773.     90.4    22.22
 1.03   482.87    23.25     0.00    13.90    36.46   519.33    25.00
ERCTTXCC   3523   000000 00                   258.     191.      8.4    33.02
 1.03     6.49    34.05     0.00    13.90     3.59    10.07    52.87
MACE  CC   0122   000000 00                  3085.    9659.     35.7    26.21
 1.03   263.16    27.24     0.00    13.90    42.88   306.04    31.68
MACE  CC   0123   000000 00                   762.     131.      2.0    34.76
 1.03     4.67    35.79     0.00    14.50    11.05    15.72   120.43
MACE  CC   0222   000000 00                  1287.    1528.     13.6    26.22
 1.03    41.63    27.25     0.00    13.90    17.89    59.52    38.96
MACE  CC   0224   000000 00                   224.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     3.11     3.11     0.00
MACW  CC   0222   000000 00                  2689.    6806.     28.9    26.06
 1.03   184.37    27.09     0.00    13.90    37.38   221.75    32.58
MACS  CC   0222   000000 00                   142.     258.     20.8    28.66
 1.03     7.67    29.69     0.00    13.90     1.97     9.65    37.33
WUMSWICC   1322   000000 00                   307.    1064.     39.5    26.94
 1.03    29.75    27.97     0.00    13.90     4.27    34.02    31.98
MANO  CC   0413   000000 00                    20.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     0.28     0.28     0.00
MANO  CC   0422   000000 00                  3078.    3654.     13.6    23.81
 1.03    90.74    24.84     0.00    13.90    42.78   133.53    36.55
MANOMOCC   0522   000000 00                   260.     309.     13.6    23.81
 1.03     7.67    24.84     0.00    13.90     3.61    11.28    36.55
MAPP  CC   0422   000000 00                   537.     397.      8.4    21.69
 1.03     9.01    22.72     0.00    13.90     7.46    16.48    41.54
MAPP  CC   1113   000000 00                    43.       7.      2.0    31.70
 1.03     0.24    32.73     0.00    19.70     0.85     1.09   147.72
MAPP  CC   1122   000000 00                   451.     333.      8.4    22.72
 1.03     7.91    23.75     0.00    13.90     6.27    14.18    42.57
MAPP  CC   1123   000000 00                    89.      15.      2.0    31.88
 1.03     0.50    32.91     0.00    13.90     1.24     1.74   114.04
MAPP  CC   1124   000000 00                   102.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.50     1.48     1.48     0.00
MAPPNECC   1422   000000 00                   118.      87.      8.4    21.69
 1.03     1.98    22.72     0.00    13.90     1.64     3.62    41.54
UPNY  CC   0123   000000 00                    73.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     1.01     1.01     0.00
DSNY  CC   0122   000000 00                  1830.   14493.     90.4    25.61
 1.03   386.14    26.64     0.00    13.90    25.44   411.58    28.40
DSNY  CC   0123   000000 00                   101.      75.      8.4    37.46
 1.03     2.87    38.49     0.00    13.90     1.40     4.28    57.31
NYC   CC   0122   000000 00                   490.    2910.     67.8    29.93
 1.03    90.10    30.96     0.00    13.90     6.81    96.91    33.30
NYC   CC   0123   000000 00                    78.      13.      2.0    40.35
 1.03     0.55    41.38     0.00    13.90     1.08     1.64   122.51
LILC  CC   0113   000000 00                    22.      49.     25.3    38.16
 1.03     1.91    39.19     0.00    19.90     0.44     2.35    48.16
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SOU   CC   0622   000000 00                10500.   51243.     55.7    23.23
 1.03  1243.20    24.26     0.00    13.90   145.95  1389.15    27.11
SOU FLCC   1522   000000 00                 500.    3530.     80.6    23.20
 1.03    85.53    24.23     0.00    13.90     6.95    92.48    26.20
SOU MSCC   1622   000000 00                1000.    5940.     67.8    23.20
 1.03   143.94    24.23     0.00    13.90    13.90   157.84    26.57
ENTG  CC   1022   000000 00                6669.   15376.     26.3    23.25
 1.03   373.27    24.28     0.00    13.90    92.70   465.97    30.30
ENTG  CC   1023   000000 00                 203.      35.      2.0    27.93
 1.03     1.01    28.96     0.00    19.90     4.04     5.05   145.11
ENTGMSCC   1622   000000 00                3835.   12037.     35.8    23.25
 1.03   292.19    24.28     0.00    13.90    53.31   345.50    28.70
ENTGMOCC   0522   000000 00                 225.     116.      5.9    23.25
 1.03     2.81    24.28     0.00    13.90     3.13     5.94    51.27
ENTGTXCC   2322   000000 00                 911.     469.      5.9    23.25
 1.03    11.39    24.28     0.00    13.90    12.66    24.05    51.27
SPPNMOCC   0522   000000 00                1437.    2340.     18.6    21.70
 1.03    53.19    22.73     0.00    13.90    19.97    73.16    31.26
SPPS  CC   1022   000000 00                 912.    7223.     90.4    21.84
 1.03   165.15    22.87     0.00    13.90    12.68   177.83    24.62
SPPS  CC   3613   000000 00                  40.      21.      5.9    30.56
 1.03     0.65    31.59     0.00    19.40     0.78     1.43    69.26
SPPS  CC   3622   000000 00                6283.   23782.     43.2    22.10
 1.03   550.12    23.13     0.00    14.00    87.96   638.09    26.83
SPPS  CC   3623   000000 00                 219.     113.      5.9    28.93
 1.03     3.38    29.96     0.00    19.90     4.36     7.74    68.61
SPPS  CC   3624   000000 00                  39.       7.      2.0    41.33
 1.03     0.28    42.36     0.00    13.90     0.54     0.83   123.49
SPPSMSCC   1613   000000 00                  50.      26.      5.9    29.52
 1.03     0.79    30.55     0.00    19.80     0.99     1.78    69.00
SPPSTXCC   2322   000000 00                 745.    5184.     79.4    21.83
 1.03   118.49    22.86     0.00    13.90    10.36   128.84    24.85
SPPSTXCC   2722   000000 00                1140.    9028.     90.4    21.84
 1.03   206.44    22.87     0.00    13.90    15.85   222.28    24.62
SPPSTXCC   3522   000000 00                 551.    4364.     90.4    21.84
 1.03    99.78    22.87     0.00    13.90     7.66   107.44    24.62
CALI  CC   0812   000000 00                  40.     238.     67.8    28.61
 1.03     7.04    29.64     0.00    19.90     0.80     7.84    32.99
CALI  CC   0813   000000 00                  65.      11.      2.0    36.56
 1.03     0.42    37.59     0.00    14.40     0.94     1.35   121.63
CALI  CC   0822   000000 00                5856.   46377.     90.4    24.49
 1.03  1183.42    25.52     0.00    13.90    81.40  1264.82    27.27
CALI  CC   0823   000000 00                 513.     203.      4.5    33.40
 1.03     6.98    34.43     0.00    19.40     9.95    16.93    83.53
CALI  CC   0824   000000 00                 272.      47.      2.0    39.07
 1.03     1.87    40.10     0.00    19.90     5.41     7.28   156.25
PNW   CC   0722   000000 00                1512.   11974.     90.4    20.86
 1.03   262.11    21.89     0.00    13.90    21.02   283.12    23.64
PNW   CC   0723   000000 00                   0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     0.00     0.00     0.00
PNW   CC   0822   000000 00                1533.   12141.     90.4    21.50
 1.03   273.51    22.53     0.00    13.90    21.31   294.82    24.28
PNW   CC   0823   000000 00                   0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.90     0.00     0.00     0.00
AZNM  CC   0812   000000 00                  19.      34.     20.2    23.15
 1.03     0.81    24.18     0.00    13.90     0.26     1.08    32.03
AZNM  CC   0813   000000 00                  16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.90     0.32     0.32     0.00
AZNM  CC   0822   000000 00                8832.   63671.     82.3    22.07
 1.03  1471.04    23.10     0.00    13.90   122.76  1593.81    25.03
AZNM  CC   0823   000000 00                 510.     263.      5.9    28.78
 1.03     7.83    29.81     0.00    14.50     7.39    15.22    57.97
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Proposed Hg Trading Rule + IAQR Region: Syste
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WUMS  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CC   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCC   5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCC   5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOCC   5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOCC   5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCC   19    (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCC   19    (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CC   8     (b)                           1482.   11736.     90.4    19.23
 1.95   248.57    21.18    70.56    11.70   121.93   370.50    31.57
CALI  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CC   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CC   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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Comb.Cycle Gas                  9          135401.  619974.     52.3    23.68
 1.05 15331.11    24.73     0.97    14.07  2035.63 17366.74    28.01

ECAO  IGCC 0441142050710 00                  262.    2013.     87.7     7.41
 1.00    16.94     8.41     0.00    31.40     8.23    25.16    12.50
FRCCFLIGCC 1541122050710 00                  250.    1921.     87.7     9.03
 1.00    19.26    10.03     0.00    31.40     7.85    27.11    14.11
NWPE  IGCC 0831402050710 00                  100.     768.     87.7     5.64
 1.00     5.10     6.64     0.00    31.40     3.14     8.24    10.73
NENG  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTIGCC 32    (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTIGCC 32    (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 8     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOIGCC 5     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOIGCC 5     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 8     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.253
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Year: 2010

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MACE  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCIGCC 6     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCIGCC 6     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOIGCC 5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOIGCC 5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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IGCC                            10              612.    4702.     87.7     7.78
 1.00    41.30     8.78     0.00    31.40    19.22    60.51    12.87

MECS  CT   0411   000000 00                       9.       4.      4.6    29.22
 1.03     0.11    30.25     0.00    11.20     0.10     0.21    58.02
MECS  CT   0412   000000 00                     152.      26.      2.0    33.99
 1.03     0.92    35.02     0.00     4.00     0.61     1.52    58.24
MECS  CT   0413   000000 00                     114.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.28     1.28     0.00
MECS  CT   0414   000000 00                     838.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.80     9.05     9.05     0.00
MECS  CT   0422   000000 00                    2392.      42.      0.2    35.13
 1.03     1.53    36.16     0.00     2.80     6.70     8.23   194.42
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.254
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ERCTTXCT   2313   000000 00                    21.       8.      4.6    39.98
 1.03     0.35    41.01     0.00    11.20     0.24     0.58    68.78
ERCTTXCT   2314   000000 00                     4.       2.      4.6    42.20
 1.03     0.07    43.23     0.00    11.20     0.04     0.11    71.00
ERCTTXCT   2322   000000 00                   460.     344.      8.5    33.65
 1.03    11.94    34.68     0.00     2.80     1.29    13.23    38.42
ERCTTXCT   2323   000000 00                   200.      81.      4.6    37.76
 1.03     3.13    38.79     0.00     2.80     0.56     3.69    45.73
ERCTTXCT   2414   000000 00                     7.       3.      4.6    42.20
 1.03     0.12    43.23     0.00    11.20     0.08     0.20    71.00
ERCTTXCT   2512   000000 00                     8.      18.     25.7    31.37
 1.03     0.58    32.40     0.00     8.80     0.07     0.65    36.31
ERCTTXCT   2514   000000 00                    27.      11.      4.6    42.20
 1.03     0.47    43.23     0.00    11.20     0.30     0.77    71.00
ERCTTXCT   2722   000000 00                   275.     206.      8.5    32.51
 1.03     6.91    33.54     0.00     2.80     0.77     7.68    37.28
ERCTTXCT   3514   000000 00                     1.       0.      4.6    42.20
 1.03     0.02    43.23     0.00     2.80     0.00     0.02    50.18
ERCTTXCT   3522   000000 00                   260.     195.      8.5    34.18
 1.03     6.86    35.21     0.00     2.80     0.73     7.58    38.95
ERCTTXCT   3523   000000 00                   502.     328.      7.5    36.55
 1.03    12.31    37.58     0.00     3.10     1.56    13.87    42.33
ERCTTXCT   3524   000000 00                   293.     118.      4.6    42.44
 1.03     5.14    43.47     0.00     3.30     0.97     6.10    51.66
MACE  CT   0113   000000 00                    22.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.25     0.25     0.00
MACE  CT   0114   000000 00                   612.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     6.85     6.85     0.00
MACE  CT   0122   000000 00                  1024.     176.      2.0    36.46
 1.03     6.61    37.49     0.00     3.40     3.48    10.09    57.23
MACE  CT   0123   000000 00                  1635.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.40    17.00    17.00     0.00
MACE  CT   0124   000000 00                  1720.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.90    18.75    18.75     0.00
MACE  CT   0212   000000 00                     3.       1.      2.0    33.05
 1.03     0.02    34.08     0.00     2.80     0.01     0.03    50.34
MACE  CT   0213   000000 00                    62.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.69     0.69     0.00
MACE  CT   0214   000000 00                   420.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.10     4.66     4.66     0.00
MACE  CT   0222   000000 00                  1923.     236.      1.4    36.45
 1.03     8.86    37.48     0.00     3.30     6.35    15.21    64.32
MACE  CT   0223   000000 00                   190.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     2.13     2.13     0.00
MACEVACT   0312   000000 00                     4.       3.      8.5    30.96
 1.03     0.10    31.99     0.00     4.10     0.02     0.11    37.46
MACEVACT   0314   000000 00                    12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.13     0.13     0.00
MACEVACT   0323   000000 00                    26.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.29     0.29     0.00
MACW  CT   0213   000000 00                   108.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.21     1.21     0.00
MACW  CT   0214   000000 00                   620.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.10     6.88     6.88     0.00
MACW  CT   0222   000000 00                   671.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     1.88     1.88     0.00
MACW  CT   0223   000000 00                   113.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.27     1.27     0.00
MACW  CT   0224   000000 00                   134.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.38     0.38     0.00
MACS  CT   0211   000000 00                     6.       7.     13.8    31.23
 1.03     0.23    32.26     0.00     2.80     0.02     0.25    34.57
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.255
Total Annual Costs
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MANOMOCT | 0514 | 000000 | 00 | | | | 100. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.50 | 1.05 | 1.05 | 0.00 | | | | | | | | | | | |
| MANOMOCT | 0522 | 000000 | 00 | | | | 1002. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.80 | 2.81 | 2.81 | 0.00 | | | | | | | | | | | |
| MANOMOCT | 0523 | 000000 | 00 | | | | 220. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9.50 | 2.09 | 2.09 | 0.00 | | | | | | | | | | | |
| MANOMOCT | 0524 | 000000 | 00 | | | | 124. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9.70 | 1.20 | 1.20 | 0.00 | | | | | | | | | | | |
| MAPP CT | 0414 | 000000 | 00 | | | | 64. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11.20 | 0.72 | 0.72 | 0.00 | | | | | | | | | | | |
| MAPP CT | 0712 | 000000 | 00 | | | | 2. | 0. | 2.0 | 31.39 | 1.03 | 0.01 | 32.42 | 0.00 |
| 2.80 | 0.01 | 0.02 | 48.68 | | | | | | | | | | | |
| MAPP CT | 0713 | 000000 | 00 | | | | 64. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.10 | 0.65 | 0.65 | 0.00 | | | | | | | | | | | |
| MAPP CT | 0714 | 000000 | 00 | | | | 114. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9.90 | 1.13 | 1.13 | 0.00 | | | | | | | | | | | |
| MAPP CT | 0722 | 000000 | 00 | | | | 30. | 5. | 2.0 | 32.46 | 1.03 | 0.17 | 33.49 | 0.00 |
| 7.80 | 0.23 | 0.41 | 78.77 | | | | | | | | | | | |
| MAPP CT | 0724 | 000000 | 00 | | | | 371. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.80 | 1.04 | 1.04 | 0.00 | | | | | | | | | | | |
| MAPP CT | 1111 | 000000 | 00 | | | | 64. | 48. | 8.5 | 26.14 | 1.03 | 1.30 | 27.17 | 0.00 |
| 10.70 | 0.68 | 1.99 | 41.46 | | | | | | | | | | | |
| MAPP CT | 1112 | 000000 | 00 | | | | 273. | 47. | 2.0 | 30.69 | 1.03 | 1.49 | 31.72 | 0.00 |
| 3.80 | 1.04 | 2.53 | 53.78 | | | | | | | | | | | |
| MAPP CT | 1113 | 000000 | 00 | | | | 144. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9.50 | 1.37 | 1.37 | 0.00 | | | | | | | | | | | |
| MAPP CT | 1114 | 000000 | 00 | | | | 1269. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.30 | 13.07 | 13.07 | 0.00 | | | | | | | | | | | |
| MAPP CT | 1122 | 000000 | 00 | | | | 1513. | 261. | 2.0 | 31.48 | 1.03 | 8.47 | 32.51 | 0.00 |
| 2.80 | 4.24 | 12.71 | 48.76 | | | | | | | | | | | |
| MAPP CT | 1123 | 000000 | 00 | | | | 934. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 9.90 | 9.25 | 9.25 | 0.00 | | | | | | | | | | | |
| MAPP CT | 1124 | 000000 | 00 | | | | 353. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.10 | 3.57 | 3.57 | 0.00 | | | | | | | | | | | |
| MAPPMOCT | 0513 | 000000 | 00 | | | | 42. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.80 | 0.12 | 0.12 | 0.00 | | | | | | | | | | | |
| MAPPMOCT | 0523 | 000000 | 00 | | | | 62. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11.20 | 0.69 | 0.69 | 0.00 | | | | | | | | | | | |
| MAPPNECT | 1412 | 000000 | 00 | | | | 49. | 8. | 2.0 | 30.14 | 1.03 | 0.26 | 31.17 | 0.00 |
| 10.00 | 0.49 | 0.75 | 89.23 | | | | | | | | | | | |
| MAPPNECT | 1413 | 000000 | 00 | | | | 21. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11.20 | 0.24 | 0.24 | 0.00 | | | | | | | | | | | |
| MAPPNECT | 1414 | 000000 | 00 | | | | 234. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.50 | 2.46 | 2.46 | 0.00 | | | | | | | | | | | |
| MAPPNECT | 1422 | 000000 | 00 | | | | 629. | 108. | 2.0 | 31.76 | 1.03 | 3.55 | 32.79 | 0.00 |
| 3.20 | 2.01 | 5.56 | 51.36 | | | | | | | | | | | |
| MAPPNECT | 1423 | 000000 | 00 | | | | 496. | 10. | 0.2 | 36.68 | 1.03 | 0.38 | 37.71 | 0.00 |
| 10.50 | 5.21 | 5.59 | 553.86 | | | | | | | | | | | |
| MAPPNECT | 1424 | 000000 | 00 | | | | 82. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.80 | 0.23 | 0.23 | 0.00 | | | | | | | | | | | |
| MAPPWICT | 1312 | 000000 | 00 | | | | 25. | 4. | 2.0 | 30.32 | 1.03 | 0.13 | 31.35 | 0.00 |
| 3.60 | 0.09 | 0.22 | 52.25 | | | | | | | | | | | |
| MAPPWICT | 1313 | 000000 | 00 | | | | 13. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 3.80 | 0.05 | 0.05 | 0.00 | | | | | | | | | | | |
| MAPPWICT | 1314 | 000000 | 00 | | | | 83. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 10.20 | 0.85 | 0.85 | 0.00 | | | | | | | | | | | |
| MAPPWICT | 1322 | 000000 | 00 | | | | 82. | 14. | 2.0 | 31.39 | 1.03 | 0.46 | 32.42 | 0.00 |
| 2.80 | 0.23 | 0.69 | 48.68 | | | | | | | | | | | |
| MAPPWICT | 1323 | 000000 | 00 | | | | 484. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 11.20 | 5.42 | 5.42 | 0.00 | | | | | | | | | | | |
| UPNY CT | 0112 | 000000 | 00 | | | | 8. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 2.80 | 0.02 | 0.02 | 0.00 | | | | | | | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.256
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| Unit Name | | |

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NENGCTCT   3213   000000 00                    15.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.17     0.17     0.00
NENGCTCT   3214   000000 00                   199.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.10     2.21     2.21     0.00
NENGCTCT   3222   000000 00                   333.       5.      0.2    36.80
 1.03     0.21    37.83     0.00     2.80     0.93     1.14   207.72
NENGCTCT   3223   000000 00                    31.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.09     0.09     0.00
NENGCTCT   3224   000000 00                   418.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     4.10     1.71     1.71     0.00
NENGNHCT   2914   000000 00                    81.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.91     0.91     0.00
NENGNHCT   3014   000000 00                    12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.03     0.03     0.00
FRCCFLCT   1512   000000 00                    68.     121.     20.4    35.53
 1.03     4.44    36.56     0.00     9.60     0.65     5.09    41.93
FRCCFLCT   1513   000000 00                    30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.34     0.34     0.00
FRCCFLCT   1514   000000 00                   389.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.10     3.93     3.93     0.00
FRCCFLCT   1522   000000 00                  5658.    4323.      8.7    37.37
 1.03   166.01    38.40     0.00     3.00    16.97   182.98    42.33
FRCCFLCT   1523   000000 00                  2073.      91.      0.5    43.79
 1.03     4.06    44.82     0.00    10.10    20.94    24.99   276.11
FRCCFLCT   1524   000000 00                  2182.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.20    22.26    22.26     0.00
VACA  CT   0612   000000 00                    22.       4.      2.0    38.72
 1.03     0.15    39.75     0.00     2.80     0.06     0.21    56.00
VACA  CT   0613   000000 00                    60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.67     0.67     0.00
VACA  CT   0614   000000 00                   493.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     5.52     5.52     0.00
VACA  CT   0622   000000 00                  1934.     333.      2.0    36.91
 1.03    12.64    37.94     0.00     2.80     5.42    18.05    54.20
VACA  CT   0623   000000 00                   446.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     5.00     5.00     0.00
VACA  CT   0624   000000 00                   581.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     4.10     2.38     2.38     0.00
VACANCCT   0611   000000 00                     1.       1.      8.5    31.35
 1.03     0.02    32.38     0.00     2.80     0.00     0.03    36.12
VACANCCT   0613   000000 00                    26.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.29     0.29     0.00
VACANCCT   0614   000000 00                   222.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.90     2.42     2.42     0.00
VACANCCT   0622   000000 00                  3047.    1160.      4.3    37.31
 1.03    44.46    38.34     0.00     2.80     8.53    52.99    45.70
VACANCCT   0623   000000 00                  1291.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     3.10     4.00     4.00     0.00
VACANCCT   0624   000000 00                   430.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     4.82     4.82     0.00
VACAVACT   0312   000000 00                    28.      21.      8.5    33.20
 1.03     0.72    34.23     0.00     2.80     0.08     0.80    37.97
VACAVACT   0313   000000 00                     3.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     7.80     0.02     0.02     0.00
VACAVACT   0314   000000 00                   426.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.90     4.64     4.64     0.00
VACAVACT   0322   000000 00                  1647.     284.      2.0    37.66
 1.03    10.98    38.69     0.00     2.80     4.61    15.59    54.95
VACAVACT   0324   000000 00                   387.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     1.08     1.08     0.00
TVA   CT   0612   000000 00                     4.       1.      2.0    34.09
 1.03     0.02    35.12     0.00     2.80     0.01     0.04    51.37
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SPPN  CT   1711   000000 00                    17.       9.      5.9    26.07
 1.03     0.24    27.10     0.00     8.50     0.14     0.38    43.52
SPPN  CT   1712   000000 00                   214.     111.      5.9    31.11
 1.03     3.56    32.14     0.00     4.00     0.86     4.42    39.87
SPPN  CT   1713   000000 00                    90.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     9.60     0.86     0.86     0.00
SPPN  CT   1714   000000 00                   493.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.30     5.08     5.08     0.00
SPPN  CT   1722   000000 00                   353.     183.      5.9    32.05
 1.03     6.04    33.08     0.00     3.60     1.27     7.32    40.03
SPPN  CT   1723   000000 00                   637.     110.      2.0    36.80
 1.03     4.15    37.83     0.00    10.70     6.82    10.97    99.95
SPPN  CT   1724   000000 00                    81.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.23     0.23     0.00
SPPNMOCT   0511   000000 00                     2.       1.      5.9    26.45
 1.03     0.03    27.48     0.00     2.80     0.01     0.03    32.89
SPPNMOCT   0512   000000 00                   103.      53.      5.9    30.06
 1.03     1.66    31.09     0.00    10.00     1.03     2.69    50.41
SPPNMOCT   0513   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.03     0.03     0.00
SPPNMOCT   0514   000000 00                   309.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.80     3.34     3.34     0.00
SPPNMOCT   0522   000000 00                  1320.     555.      4.8    31.67
 1.03    18.16    32.70     0.00     3.70     4.88    23.04    41.50
SPPNMOCT   0523   000000 00                   733.      92.      1.4    37.10
 1.03     3.51    38.13     0.00     9.40     6.89    10.40   112.97
SPPNMOCT   0524   000000 00                   288.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.81     0.81     0.00
SPPS  CT   0812   000000 00                     6.       3.      5.9    31.17
 1.03     0.10    32.20     0.00    11.20     0.07     0.17    53.84
SPPS  CT   0814   000000 00                    35.       6.      2.0    41.33
 1.03     0.26    42.36     0.00    11.20     0.39     0.65   107.38
SPPS  CT   0823   000000 00                    66.      11.      2.0    36.97
 1.03     0.43    38.00     0.00    11.20     0.74     1.17   103.03
SPPS  CT   0824   000000 00                   244.      42.      2.0    41.33
 1.03     1.78    42.36     0.00     2.80     0.68     2.46    58.62
SPPS  CT   1012   000000 00                     9.       5.      5.9    31.03
 1.03     0.15    32.06     0.00     4.30     0.04     0.19    40.36
SPPS  CT   1014   000000 00                    76.      13.      2.0    41.28
 1.03     0.55    42.31     0.00    10.40     0.79     1.34   102.69
SPPS  CT   1022   000000 00                   457.      79.      2.0    31.70
 1.03     2.58    32.73     0.00     2.80     1.28     3.86    48.99
SPPS  CT   3612   000000 00                    11.       6.      5.9    30.31
 1.03     0.18    31.34     0.00     9.90     0.11     0.29    50.46
SPPS  CT   3614   000000 00                   161.      28.      2.0    41.33
 1.03     1.17    42.36     0.00    11.00     1.77     2.95   106.22
SPPS  CT   3622   000000 00                   512.     100.      2.2    31.70
 1.03     3.28    32.73     0.00     2.80     1.43     4.71    47.05
SPPS  CT   3623   000000 00                    53.       9.      2.0    40.37
 1.03     0.38    41.40     0.00    11.20     0.59     0.97   106.43
SPPS  CT   3624   000000 00                   162.      28.      2.0    42.09
 1.03     1.20    43.12     0.00    11.20     1.81     3.02   108.15
SPPSMSCT   1614   000000 00                    15.       3.      2.0    41.33
 1.03     0.11    42.36     0.00    11.20     0.17     0.28   107.38
SPPSTXCT   2214   000000 00                    40.       7.      2.0    41.33
 1.03     0.29    42.36     0.00    11.20     0.45     0.74   107.38
SPPSTXCT   2322   000000 00                   100.      17.      2.0    31.70
 1.03     0.56    32.73     0.00     2.80     0.28     0.84    48.99
SPPSTXCT   2512   000000 00                     3.       2.      5.9    31.59
 1.03     0.05    32.62     0.00    11.20     0.03     0.08    54.26
SPPSTXCT   2513   000000 00                     5.       1.      2.0    39.74
 1.03     0.04    40.77     0.00    11.20     0.06     0.09   105.79
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RMPA  CT   0713   000000 00                    68.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     9.50     0.65     0.65     0.00
RMPA  CT   0714   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
RMPA  CT   0722   000000 00                    48.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.13     0.13     0.00
RMPA  CT   0723   000000 00                    42.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     7.80     0.33     0.33     0.00
RMPA  CT   0812   000000 00                    10.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.03     0.03     0.00
RMPA  CT   0814   000000 00                   121.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.36     1.36     0.00
RMPA  CT   0822   000000 00                  1444.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     3.00     4.33     4.33     0.00
RMPA  CT   0823   000000 00                    31.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.35     0.35     0.00
RMPA  CT   0824   000000 00                   235.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     2.63     2.63     0.00
RMPANECT   1412   000000 00                     4.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.04     0.04     0.00
RMPANECT   1414   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.12     0.12     0.00
NWPE  CT   0712   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     7.80     0.00     0.00     0.00
NWPE  CT   0714   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
NWPE  CT   0722   000000 00                   160.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.45     0.45     0.00
NWPE  CT   0811   000000 00                    14.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.04     0.04     0.00
NWPE  CT   0812   000000 00                    53.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.15     0.15     0.00
NWPE  CT   0814   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.80     0.00     0.00     0.00
NWPE  CT   0822   000000 00                   928.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     2.60     2.60     0.00
NWPE  CT   0824   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
NENG  CT   1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  ACT  1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  ACT  1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   32    (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   32    (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTACT  32    (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTACT  32    (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  ACT  1     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  ACT  1     (b)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMS | CT | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | CT | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | ACT | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | ACT | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | CT | 8 | (a) | | | | | 266. | 45. | 1.9 | 34.40 | | |
| 3.91 | 1.72 | 38.31 | 55.48 | 9.80 | 17.38 | 19.11 | 424.95 | | | | | | |
| WUMS | CT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | ACT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | ACT | 8 | (b) | | | | | 959. | 1654. | 19.7 | 27.14 | | |
| 2.94 | 49.74 | 30.08 | 53.06 | 7.80 | 58.39 | 108.13 | 65.39 | | | | | | |
| MANO | CT | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | CT | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | ACT | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | ACT | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | CT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | CT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | ACT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | ACT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOCT | | 5 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOCT | | 5 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOACT | | 5 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOACT | | 5 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | CT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | CT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | ACT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | ACT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | CT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | CT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | ACT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | ACT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOCT | | 5 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOCT | | 5 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOACT | | 5 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

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CALI ACT 8 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCC CT 8 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCC CT 8 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCC ACT 8 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCC ACT 8 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA ACT 1 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA ACT 1 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCT 6 (a) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCT 6 (b) 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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SOU   ACT  8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   ACT  8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Turbine                          11          131505.   34323.      3.0    33.30
 1.13  1181.76    34.43     0.50     5.30   763.25  1945.02    56.67

MECS  BIOMS00  42 000000 00                     161.    1237.     87.7     6.36
 5.36    14.50    11.72     0.00    44.80     7.21    21.71    17.56
ECAO  BIOMS00  42 000000 00                      84.     645.     87.7     6.36
 5.36     7.57    11.72     0.00    44.80     3.76    11.33    17.56
MACE  BIOMS00  44 000000 00                       8.      61.     87.7     5.29
 5.36     0.65    10.65     0.00    44.80     0.36     1.01    16.48
MACW  BIOMS00  44 000000 00                      17.     131.     87.7     6.09
 5.36     1.50    11.45     0.00    44.80     0.76     2.26    17.28
WUMS  BIOMS00  45 000000 00                      12.      92.     87.7     5.29
 5.36     0.98    10.65     0.00    44.80     0.54     1.52    16.48
MANO  BIOMS00  45 000000 00                       1.       8.     87.7     5.29
 5.36     0.08    10.65     0.00    44.80     0.04     0.13    16.48
MAPP  BIOMS00  46 000000 00                     163.    1252.     87.7    11.25
 5.36    20.80    16.61     0.00    44.80     7.30    28.11    22.44
UPNY  BIOMS00  47 000000 00                      18.     138.     87.7     6.09
 5.36     1.58    11.45     0.00    44.80     0.81     2.39    17.28
NENG  BIOMS00  48 000000 00                     309.    1084.     40.0    22.62
 5.36    30.33    27.98     0.00    44.80    13.84    44.17    40.75
FRCC  BIOMS00  49 000000 00                      54.     415.     87.7     6.09
 5.36     4.75    11.45     0.00    44.80     2.42     7.17    17.28
VACA  BIOMS00  50 000000 00                      47.     361.     87.7     6.09
 5.36     4.13    11.45     0.00    44.80     2.11     6.24    17.28
TVA   BIOMS00  50 000000 00                       1.       8.     87.7     6.09
 5.36     0.09    11.45     0.00    44.80     0.04     0.13    17.28
ENTG  BIOMS00  51 000000 00                      10.      77.     87.7     6.09
 5.36     0.88    11.45     0.00    44.80     0.45     1.33    17.28
CALI  BIOMS00  54 000000 00                     432.    3319.     87.7    18.90
 5.36    80.52    24.26     0.00    44.80    19.35    99.87    30.09
PNW   BIOMS00  52 000000 00                       6.      46.     87.7     8.17
 5.36     0.62    13.53     0.00    44.80     0.27     0.89    19.36
AZNM  BIOMS00  53 000000 00                      18.     138.     87.7     9.93
 5.36     2.11    15.29     0.00    44.80     0.81     2.92    21.12
RMPA  BIOMS00  53 000000 00                       1.       8.     87.7     9.93
 5.36     0.12    15.29     0.00    44.80     0.04     0.16    21.12
NWPE  BIOMS00  52 000000 00                       5.      38.     87.7     8.17
 5.36     0.52    13.53     0.00    44.80     0.22     0.74    19.36
NENG  BIOCC0     (a)                              5.      37.     87.7    20.29
 5.34     0.94    25.63   215.30    44.80     1.25     2.19    59.49
UPNY  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.262
Total Annual Costs
Year: 2010

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 0.00     0.00     0.00     0.00    87.40    21.06    21.06    11.47
RMPA  GEOR 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ10     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ40     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ50     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  GEOA 0     (a)                          143.    1089.     87.2     0.00
 0.00     0.00     0.00   352.02    85.80    62.43    62.43    57.31
AZNM  GEOA20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Geothermal                     13            3086.   23518.     87.0     0.00
 0.00     0.00     0.00    16.27    87.33   319.65   319.65    13.59

MECS  LFGAS00     000000 00                      5.      39.     90.0     0.00
10.48     0.41    10.48     0.00    78.60     0.39     0.81    20.45
ECAO  LFGAS00     000000 00                     12.      95.     90.0     0.00
10.48     0.99    10.48     0.00    78.60     0.94     1.93    20.45
ERCT  LFGAS00     000000 00                     67.     528.     90.0     0.00
10.48     5.54    10.48     0.00    78.60     5.27    10.80    20.45
MACE  LFGAS00     000000 00                     24.     189.     90.0     0.00
10.48     1.98    10.48     0.00    78.60     1.89     3.87    20.45
MACW  LFGAS00     000000 00                      1.       8.     90.0     0.00
10.48     0.08    10.48     0.00    78.60     0.08     0.16    20.45
MACS  LFGAS00     000000 00                      4.      32.     90.0     0.00
10.48     0.33    10.48     0.00    78.60     0.31     0.64    20.45
WUMS  LFGAS00     000000 00                     14.     110.     90.0     0.00
10.48     1.16    10.48     0.00    78.60     1.10     2.26    20.45
MANO  LFGAS00     000000 00                     38.     300.     90.0     0.00
10.48     3.14    10.48     0.00    78.60     2.99     6.13    20.45
MAPP  LFGAS00     000000 00                     11.      87.     90.0     0.00
10.48     0.91    10.48     0.00    78.60     0.86     1.77    20.45
UPNY  LFGAS00     000000 00                      6.      47.     90.0     0.00
10.48     0.50    10.48     0.00    78.60     0.47     0.97    20.45
NENG  LFGAS00     000000 00                     18.     142.     90.0     0.00
10.48     1.49    10.48     0.00    78.60     1.41     2.90    20.45
FRCC  LFGAS00     000000 00                      2.      16.     90.0     0.00
10.48     0.17    10.48     0.00    78.60     0.16     0.32    20.45
VACA  LFGAS00     000000 00                     25.     197.     90.0     0.00
10.48     2.07    10.48     0.00    78.60     1.96     4.03    20.45
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Total Annual Costs

Year: 2010

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MACE  LG   0     (a)                          57.     425.     85.0     0.00
10.48     4.45    10.48   174.07    78.60    14.40    18.85    44.40
MACW  LG   0     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  LG   0     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  LG   0     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  LG   0     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   LG   0     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  LG   0     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   LG   0     (a)                           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Landfill Gas                 14            670.    5206.     88.8     0.00
10.48    54.56    10.48    45.30    78.60    82.96   137.52    26.42

MECS  WIND 00     000000 00                  1.       2.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     0.03     0.03    10.83
ECAO  WIND 00     000000 00                105.     256.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     2.77     2.77    10.83
ERCT  WIND 00     000000 00                703.    2288.     37.1     0.00
 0.00     0.00     0.00     0.00    26.40    18.56    18.56     8.11
MACE  WIND 00     000000 00                 14.      31.     25.3     0.00
 0.00     0.00     0.00     0.00    26.40     0.37     0.37    11.91
MACW  WIND 00     000000 00                 10.      27.     30.4     0.00
 0.00     0.00     0.00     0.00    26.40     0.26     0.26     9.93
WUMS  WIND 00     000000 00                 13.      32.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     0.34     0.34    10.83
MANO  WIND 00     000000 00                 52.     137.     30.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.37     1.37    10.05
MAPP  WIND 00     000000 00                857.    2252.     30.0     0.00
 0.00     0.00     0.00     0.00    26.40    22.62    22.62    10.05
UPNY  WIND 00     000000 00                194.     136.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     5.12     5.12    37.55
DSNY  WIND 00     000000 00                 64.      45.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.69     1.69    37.55
NYC   WIND 00     000000 00                 59.      41.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.56     1.56    37.55
LILC  WIND 00     000000 00                 36.      25.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     0.95     0.95    37.55
NENG  WIND 00     000000 00                 31.      22.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     0.82     0.82    37.55
VACA  WIND 00     000000 00                 14.      31.     25.3     0.00
 0.00     0.00     0.00     0.00    26.40     0.37     0.37    11.91
TVA   WIND 00     000000 00                  2.       3.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     0.05     0.05    17.01
ENTG  WIND 00     000000 00                 57.      88.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     1.50     1.50    17.01
SPPS  WIND 00     000000 00                 66.     102.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     1.74     1.74    17.01
CALI  WIND 00     000000 00               1931.    7234.     42.8     0.00
 0.00     0.00     0.00     0.00    26.40    50.98    50.98     7.05
PNW   WIND 00     000000 00                412.     290.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40    10.88    10.88    37.55
AZNM  WIND 00     000000 00                 49.     159.     37.1     0.00
 0.00     0.00     0.00     0.00    26.40     1.29     1.29     8.11
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Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | WIN520 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | WIN530 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | WIN410 | (a) | | | | | 24. | 63. | 29.9 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 139.76 | 26.40 | 3.99 | 3.99 | 63.48 | | | | | |
| MAPP | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPS | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPS | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPS | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ERCTTX | WIN410 | (a) | | | | | 224. | 586. | 29.9 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 138.42 | 26.40 | 36.92 | 36.92 | 62.97 | | | | | |
| ERCTTX | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ERCTTX | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN610 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN620 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN630 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN510 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN520 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN530 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN610 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN620 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN630 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN510 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN520 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN530 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.265
Total Annual Costs
Year: 2010

| | | | Fixed Costs | | | Total Costs | | | Variable Costs | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Capacity | Gener. | C.F. | Fuel | | | | | | | | |
| | | Total | Capital | FOM | Total | Total | | | VOM | | | | | | | |
| Unit | Name | | | | [MW] | [GWh] | [%] | mill/kWh | mill/kWh | | | | | | | |
| | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | | | | |
| NWPE | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN510 | (a) | | | 153. | 441. | 32.9 | 0.00 | 0.00 | 0.00 | 0.00 | 143.65 | 26.40 | 26.02 | 26.02 | 59.03 |
| AZNM | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CALI | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | WIN410 | (a) | | | | | | 63. | 165. | 29.9 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 138.82 | 26.40 | 10.41 | 10.41 | 63.12 | | | | | | |
| MACE | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN610 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN620 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN630 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

Total Annual Costs

Year: 2010

| | | | Variable Costs | | |

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Wind                            15            5702.   16026.     32.1     0.00
 0.00     0.00     0.00    15.77    26.40   240.45   240.45    15.00

MACE  FCELL00     000000 00                    15.      18.     13.6    25.47
 2.06     0.49    27.53     0.00    15.00     0.23     0.72    40.13
UPNY  FCELL00     000000 00                     1.       8.     90.7    24.37
 2.06     0.21    26.43     0.00    15.00     0.01     0.23    28.32
NENG  FCELL00     000000 00                     1.       1.     13.6    25.91
 2.06     0.03    27.97     0.00    15.00     0.01     0.05    40.57
NENG  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  FC   8     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  FC   8     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOFC   5     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOFC   5     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXFC   19    (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXFC   19    (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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TVA   FC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  FC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  FC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   FC   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   FC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Fuel Cell                      16              17.      27.     18.1    25.17
 2.06     0.74    27.23     0.00    15.00     0.26     0.99    36.67

ERCT  SOLAR00     000000 00                       1.       0.      5.5     0.00
 0.00     0.00     0.00     0.00    47.00     0.05     0.05    97.62
CALI  SOLAR00     000000 00                     324.     790.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00    15.23    15.23    19.27
AZNM  SOLAR00     000000 00                      61.      29.      5.5     0.00
 0.00     0.00     0.00     0.00    47.00     2.87     2.87    97.62
RMPA  SOLAR00     000000 00                       3.       7.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00     0.14     0.14    19.27
NWPE  SOLAR00     000000 00                      24.      59.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00     1.13     1.13    19.27
NENG  SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  SLRTH0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  SLRTH0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  SLRTH0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  SLRTH0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSLRTH0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  SLRTH0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  SLRPV0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.268
Total Annual Costs
Year: 2010

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 0.00     0.00     0.00     0.00   103.60     1.35     1.35    13.14
MECS  OTHER00     000000 00                    15.     118.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.55     1.55    13.14
ECAO  OTHER00     000000 00                    90.     710.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     9.32     9.32    13.14
ERCT  OTHER00     000000 00                    10.      79.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.14
MACE  OTHER00     000000 00                   257.    2026.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    26.63    26.63    13.14
MACW  OTHER00     000000 00                   119.     938.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    12.33    12.33    13.14
MACS  OTHER00     000000 00                    55.     434.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     5.70     5.70    13.14
MAPP  OTHER00     000000 00                    34.     268.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.14
UPNY  OTHER00     000000 00                    34.     268.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.14
DSNY  OTHER00     000000 00                    82.     646.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     8.50     8.50    13.14
LILC  OTHER00     000000 00                   137.    1080.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    14.19    14.19    13.14
NENG  OTHER00     000000 00                   537.    4234.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    55.63    55.63    13.14
FRCC  OTHER00     000000 00                   424.    3343.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    43.93    43.93    13.14
VACA  OTHER00     000000 00                   140.    1104.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    14.50    14.50    13.14
TVA   OTHER00     000000 00                    12.      95.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.24     1.24    13.14
ENTG  OTHER00     000000 00                    31.     244.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.21     3.21    13.14
SPPS  OTHER00     000000 00                    10.      79.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.14
CALI  OTHER00     000000 00                   178.    1403.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    18.44    18.44    13.14
PNW   OTHER00     000000 00                    58.     457.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     6.01     6.01    13.14
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Non Fossil_Other                18            2275.   17936.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60   235.69   235.69    13.14

ECAO  WASTE062    000000 00                    60.     473.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     6.22     6.22    13.14
ERCTTXWASTE271    000000 00                     2.      16.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     0.21     0.21    13.14
MANO  WASTE041    000000 00                     2.      16.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     0.21     0.21    13.14
CALI  WASTE081    000000 00                    20.     158.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     2.07     2.07    13.14
NWPE  WASTE072    000000 00                    41.     323.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     4.25     4.25    13.14
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Fossil_Other                    19             125.     985.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    12.95    12.95    13.14

MECS  PUMPS00     000000 00                  1872.    1226.      7.5     0.00
 0.00     0.00     0.00     0.00     6.50    12.17    12.17     9.92
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.269
Total Annual Costs
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Int. Imports                  21           11000.   28078.     29.1     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  CGCOU0431392050710 01                   55.     373.     77.4    11.37
 1.54     4.82    12.91     0.00    11.70     0.64     5.46    14.64
ECAO  CGCOU0231412050710 01                  127.     697.     62.7    14.36
 1.54    11.09    15.90     0.00    17.40     2.21    13.30    19.07
ECAO  CGCOU0411142050710 01                    1.       7.     83.5    12.16
 1.54     0.10    13.70     0.00    17.40     0.02     0.12    16.08
MACE  CGCOU0141012050710 01                  187.    1269.     77.4    14.67
 1.54    20.56    16.21     0.00    11.70     2.19    22.75    17.93
MACE  CGCOU0211412050710 01                    8.      59.     83.5    12.84
 1.54     0.84    14.38     0.00    17.40     0.14     0.98    16.76
MACW  CGCOU0211412050710 01                   44.     322.     83.5    12.60
 1.54     4.55    14.14     0.00    21.10     0.93     5.48    17.03
MACW  CGCOU0231412050710 01                   82.     600.     83.5    11.57
 1.54     7.86    13.11     0.00    11.70     0.96     8.82    14.71
MACW  CGCOU0232412050710 01                  120.     659.     62.7    15.69
 1.54    11.35    17.23     0.00    15.50     1.86    13.21    20.05
MACW  CGCOU0241412050710 01                  101.     685.     77.4    12.34
 1.54     9.51    13.88     0.00    11.70     1.18    10.69    15.60
WUMSWICGCOU1211162050710 01                   11.      80.     83.5     7.39
 1.54     0.72     8.93     0.00    11.70     0.13     0.85    10.53
WUMSWICGCOU1311162050710 01                    4.      29.     83.5     8.58
 1.54     0.30    10.12     0.00    32.00     0.13     0.42    14.49
MAPP  CGCOU1111262050210 01                   11.      80.     83.5     9.40
 1.54     0.88    10.94     0.00    32.00     0.35     1.23    15.32
MAPP  CGCOU1111262050710 01                    1.       7.     83.5    10.65
 1.54     0.09    12.19     0.00    32.00     0.03     0.12    16.57
UPNY  CGCOU0131022050710 01                   80.     585.     83.5    12.21
 1.54     8.05    13.75     0.00    11.70     0.94     8.98    15.35
NENG  CGCOU0931012050710 01                   76.     556.     83.5    15.00
 1.54     9.20    16.54     0.00    11.70     0.89    10.09    18.14
FRCCFLCGCOU1541132050710 01                  653.    4777.     83.5    13.98
 1.54    74.12    15.52     0.00    12.70     8.29    82.42    17.25
VACA  CGCOU0631102050710 01                   35.     256.     83.5    11.57
 1.54     3.36    13.11     0.00    11.70     0.41     3.77    14.71
VACANCCGCOU0611102050310 01                   65.     475.     83.5    12.84
 1.54     6.84    14.38     0.00    17.40     1.13     7.97    16.76
VACANCCGCOU0611102050710 01                   21.     154.     83.5    13.25
 1.54     2.27    14.79     0.00    28.70     0.60     2.87    18.71
VACANCCGCOU0631102050310 01                  135.     987.     83.5    12.84
 1.54    14.20    14.38     0.00    17.40     2.35    16.55    16.76
VACANCCGCOU0631102050710 01                  161.    1178.     83.5    12.84
 1.54    16.94    14.38     0.00    13.60     2.19    19.13    16.24
VACAVACGCOU0311092050310 01                   49.     358.     83.5    13.18
 1.54     5.28    14.72     0.00    17.40     0.85     6.13    17.10
VACAVACGCOU0331092050710 01                  363.    2655.     83.5    12.03
 1.54    36.03    13.57     0.00    11.70     4.25    40.27    15.17
VACAVACGCOU0341092050710 01                  199.    1219.     69.9    15.11
 1.54    20.31    16.65     0.00    11.70     2.33    22.63    18.56
SOU   CGCOU0611112050710 01                    1.       7.     83.5    13.18
 1.54     0.11    14.72     0.00    14.60     0.01     0.12    16.71
SPPS  CGCOU3641282050710 01                  307.    2246.     83.5     8.30
 1.54    22.09     9.84     0.00    11.70     3.59    25.68    11.44
CALI  CGCOU0811372050710 01                   68.     497.     83.5     7.85
 1.54     4.67     9.39     0.00    15.50     1.05     5.73    11.51
CALI  CGCOU0831372050710 01                  153.    1119.     83.5     7.61
 1.54    10.24     9.15     0.00    11.70     1.79    12.03    10.75
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Total Annual Costs
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 1.03     0.22    29.89     0.00     2.80     0.02     0.23    32.20
MACE  CGCT 0112   000000 00                   13.      10.      8.5    32.38
 1.03     0.33    33.41     0.00     2.80     0.04     0.36    37.15
MACE  CGCT 0122   000000 00                  170.      29.      2.0    36.28
 1.03     1.09    37.31     0.00     2.80     0.48     1.57    53.57
MACE  CGCT 0222   000000 00                   88.      15.      2.0    36.28
 1.03     0.57    37.31     0.00     2.80     0.25     0.81    53.57
MACW  CGCT 0212   000000 00                   33.       6.      2.0    33.56
 1.03     0.20    34.59     0.00     2.80     0.09     0.29    50.84
MACW  CGCT 0222   000000 00                  145.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.41     0.41     0.00
MANO  CGCT 0412   000000 00                    8.       1.      2.0    32.54
 1.03     0.05    33.57     0.00     2.80     0.02     0.07    49.83
MAPP  CGCT 1112   000000 00                   31.       5.      2.0    30.52
 1.03     0.17    31.55     0.00     2.80     0.09     0.26    47.81
UPNY  CGCT 0112   000000 00                   13.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.04     0.04     0.00
UPNY  CGCT 0122   000000 00                  145.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.41     0.41     0.00
NYC   CGCT 0112   000000 00                    2.       9.     53.4    36.31
 1.03     0.35    37.34     0.00     2.80     0.01     0.35    37.94
LILC  CGCT 0111   000000 00                    1.       6.     69.2    30.54
 1.03     0.19    31.57     0.00     2.80     0.00     0.19    32.03
LILC  CGCT 0112   000000 00                   15.      91.     69.2    34.56
 1.03     3.24    35.59     0.00     2.80     0.04     3.28    36.05
NENG  CGCT 0912   000000 00                    7.       3.      4.6    34.08
 1.03     0.10    35.11     0.00     2.80     0.02     0.12    42.05
NENG  CGCT 0922   000000 00                  346.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.97     0.97     0.00
NENGCTCGCT 3112   000000 00                    3.       1.      4.6    32.95
 1.03     0.04    33.98     0.00     2.80     0.01     0.05    40.92
NENGNHCGCT 3012   000000 00                    5.       1.      2.0    36.80
 1.03     0.03    37.83     0.00     2.80     0.01     0.05    54.08
FRCCFLCGCT 1512   000000 00                   27.      48.     20.4    34.28
 1.03     1.70    35.31     0.00     2.80     0.08     1.78    36.88
FRCCFLCGCT 1522   000000 00                  336.      58.      2.0    38.19
 1.03     2.27    39.22     0.00     2.80     0.94     3.21    55.48
VACANCCGCT 0612   000000 00                    2.       1.      8.5    33.74
 1.03     0.05    34.77     0.00     2.80     0.01     0.06    38.51
VACAVACGCT 0311   000000 00                    7.       5.      8.5    29.10
 1.03     0.16    30.13     0.00     2.80     0.02     0.18    33.86
VACAVACGCT 0312   000000 00                   11.       8.      8.5    36.38
 1.03     0.31    37.41     0.00     2.80     0.03     0.34    41.15
TVA   CGCT 0622   000000 00                  308.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.86     0.86     0.00
SOU   CGCT 0612   000000 00                    4.       2.      5.9    30.88
 1.03     0.07    31.91     0.00     8.80     0.04     0.10    48.91
SOU MSCGCT 1622   000000 00                   70.      36.      5.9    30.57
 1.03     1.15    31.60     0.00     2.80     0.20     1.34    37.01
ENTG  CGCT 1012   000000 00                   12.       2.      2.0    29.60
 1.03     0.06    30.63     0.00     2.80     0.03     0.10    46.89
ENTG  CGCT 1022   000000 00                  751.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     2.10     2.10     0.00
ENTGTXCGCT 2712   000000 00                    1.       0.      2.0    30.57
 1.03     0.01    31.60     0.00     2.80     0.00     0.01    47.86
ENTGTXCGCT 2722   000000 00                   75.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.21     0.21     0.00
SPPN  CGCT 1712   000000 00                   15.       8.      5.9    31.59
 1.03     0.25    32.62     0.00     2.80     0.04     0.30    38.03
SPPS  CGCT 1012   000000 00                    4.       2.      5.9    30.81
 1.03     0.07    31.84     0.00     2.80     0.01     0.08    37.25
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ERCTTXCGCC 2322   000000 00                    1513.    8473.     63.9    22.22
 1.03   197.04    23.25     0.00    13.90    21.03   218.07     25.74
ERCTTXCGCC 2323   000000 00                     246.     546.     25.3    30.61
 1.03    17.27    31.64     0.00    13.90     3.42    20.69     37.91
ERCTTXCGCC 2711   000000 00                      81.     641.     90.4    16.12
 1.03    11.00    17.15     0.00    13.90     1.13    12.13     18.90
ERCTTXCGCC 2722   000000 00                     782.    3593.     52.5    23.11
 1.03    86.74    24.14     0.00    13.90    10.87    97.61     27.17
ERCTTXCGCC 3513   000000 00                      77.     171.     25.3    30.74
 1.03     5.43    31.77     0.00    14.90     1.15     6.58     38.49
ERCTTXCGCC 3523   000000 00                     217.     481.     25.3    29.26
 1.03    14.58    30.29     0.00    14.90     3.23    17.82     37.01
MACE  CGCC 0111   000000 00                      21.     125.     67.8    22.45
 1.03     2.93    23.48     0.00    13.90     0.29     3.22     25.82
MACE  CGCC 0112   000000 00                      16.      19.     13.6    28.04
 1.03     0.55    29.07     0.00    13.90     0.22     0.77     40.78
MACE  CGCC 0113   000000 00                      76.      56.      8.4    31.41
 1.03     1.82    32.44     0.00    13.90     1.06     2.88     51.26
MACE  CGCC 0121   000000 00                      41.     244.     67.8    22.52
 1.03     5.74    23.55     0.00    13.90     0.57     6.31     25.89
MACE  CGCC 0122   000000 00                    1517.    1801.     13.6    27.21
 1.03    50.85    28.24     0.00    13.90    21.09    71.93     39.95
MACE  CGCC 0123   000000 00                     628.     274.      5.0    32.10
 1.03     9.07    33.13     0.00    14.20     8.92    17.99     65.71
MACE  CGCC 0221   000000 00                     188.    1327.     80.6    19.38
 1.03    27.09    20.41     0.00    13.90     2.61    29.70     22.38
MACE  CGCC 0222   000000 00                     725.    3158.     49.7    25.54
 1.03    83.92    26.57     0.00    13.90    10.08    94.00     29.77
MACW  CGCC 0213   000000 00                      80.      14.      2.0    31.37
 1.03     0.44    32.40     0.00    13.90     1.11     1.56    113.53
MACW  CGCC 0223   000000 00                     206.      35.      2.0    31.34
 1.03     1.14    32.37     0.00    13.90     2.86     4.01    113.50
MACS  CGCC 0223   000000 00                     277.     329.     13.6    33.39
 1.03    11.32    34.42     0.00    13.90     3.85    15.17     46.13
MANO  CGCC 0412   000000 00                       7.       8.     13.6    23.81
 1.03     0.21    24.84     0.00    13.90     0.10     0.30     36.55
MANO  CGCC 0413   000000 00                       1.       1.      8.4    29.54
 1.03     0.02    30.57     0.00    14.90     0.01     0.04     50.75
MANO  CGCC 0422   000000 00                      40.      47.     13.6    23.81
 1.03     1.18    24.84     0.00    13.90     0.56     1.74     36.55
UPNY  CGCC 0112   000000 00                     139.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     1.93     1.93      0.00
UPNY  CGCC 0113   000000 00                     153.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.00     2.14     2.14      0.00
UPNY  CGCC 0122   000000 00                    1566.    4939.     36.0    26.49
 1.03   135.91    27.52     0.00    13.90    21.77   157.68     31.92
UPNY  CGCC 0123   000000 00                     877.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90    12.19    12.19      0.00
DSNY  CGCC 0113   000000 00                      35.      42.     13.6    31.86
 1.03     1.37    32.89     0.00    13.90     0.49     1.85     44.60
DSNY  CGCC 0123   000000 00                     487.     484.     11.3    32.07
 1.03    16.01    33.10     0.00    13.90     6.77    22.78     47.10
NYC   CGCC 0112   000000 00                      15.      89.     67.8    32.86
 1.03     3.02    33.89     0.00    13.90     0.21     3.23     36.23
NYC   CGCC 0113   000000 00                      46.     273.     67.8    34.16
 1.03     9.62    35.19     0.00    14.10     0.65    10.26     37.57
LILC  CGCC 0112   000000 00                      13.     103.     90.4    26.32
 1.03     2.82    27.35     0.00    13.90     0.18     3.00     29.11
LILC  CGCC 0113   000000 00                      61.     362.     67.8    35.48
 1.03    13.23    36.51     0.00    13.90     0.85    14.08     38.85
LILC  CGCC 0122   000000 00                      43.     304.     80.6    26.43
 1.03     8.34    27.46     0.00    13.90     0.60     8.93     29.43
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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| NENG | CGCC | 0113 | 000000 | 00 | | | | | | | 13. | 10. | 8.4 | 31.90 | | | | | |
| 1.03 | 0.32 | 32.93 | 0.00 | 13.90 | | | | | | | 0.18 | 0.50 | 51.75 | | | | | | |
| NENG | CGCC | 0122 | 000000 | 00 | | | | | | | 661. | 785. | 13.6 | 27.61 | | | | | |
| 1.03 | 22.47 | 28.64 | 0.00 | 13.90 | | | | | | | 9.19 | 31.66 | 40.35 | | | | | | |
| NENG | CGCC | 0123 | 000000 | 00 | | | | | | | 132. | 52. | 4.5 | 33.05 | | | | | |
| 1.03 | 1.78 | 34.08 | 0.00 | 13.90 | | | | | | | 1.83 | 3.61 | 69.27 | | | | | | |
| NENGCTCGCC | | 3112 | 000000 | 00 | | | | | | | 13. | 15. | 13.6 | 28.12 | | | | | |
| 1.03 | 0.45 | 29.15 | 0.00 | 13.90 | | | | | | | 0.18 | 0.63 | 40.86 | | | | | | |
| NENGCTCGCC | | 3113 | 000000 | 00 | | | | | | | 1. | 1. | 8.4 | 31.90 | | | | | |
| 1.03 | 0.02 | 32.93 | 0.00 | 14.90 | | | | | | | 0.01 | 0.04 | 53.10 | | | | | | |
| NENGCTCGCC | | 3122 | 000000 | 00 | | | | | | | 32. | 38. | 13.6 | 28.12 | | | | | |
| 1.13 | 1.11 | 29.25 | 6.60 | 15.60 | | | | | | | 0.71 | 1.82 | 47.95 | | | | | | |
| NENGCTCGCC | | 3123 | 000000 | 00 | | | | | | | 73. | 29. | 4.5 | 34.25 | | | | | |
| 1.13 | 1.02 | 35.38 | 6.36 | 16.50 | | | | | | | 1.67 | 2.69 | 93.25 | | | | | | |
| FRCCFLCGCC | | 1513 | 000000 | 00 | | | | | | | 18. | 32. | 20.2 | 33.47 | | | | | |
| 1.03 | 1.10 | 34.50 | 0.00 | 13.90 | | | | | | | 0.25 | 1.35 | 42.35 | | | | | | |
| FRCCFLCGCC | | 1522 | 000000 | 00 | | | | | | | 437. | 774. | 20.2 | 27.59 | | | | | |
| 1.03 | 22.15 | 28.62 | 0.00 | 13.90 | | | | | | | 6.07 | 28.22 | 36.48 | | | | | | |
| FRCCFLCGCC | | 1523 | 000000 | 00 | | | | | | | 454. | 804. | 20.2 | 32.98 | | | | | |
| 1.03 | 27.34 | 34.01 | 0.00 | 13.90 | | | | | | | 6.31 | 33.65 | 41.87 | | | | | | |
| VACA | CGCC | 0622 | 000000 | 00 | | | | | | | 1000. | 2219. | 25.3 | 25.65 | | | | | |
| 1.03 | 59.19 | 26.68 | 0.00 | 13.90 | | | | | | | 13.90 | 73.09 | 32.94 | | | | | | |
| VACA | CGCC | 0623 | 000000 | 00 | | | | | | | 111. | 82. | 8.4 | 33.74 | | | | | |
| 1.03 | 2.85 | 34.77 | 0.00 | 13.90 | | | | | | | 1.54 | 4.39 | 53.59 | | | | | | |
| VACANCCGCC | | 0623 | 000000 | 00 | | | | | | | 162. | 120. | 8.4 | 34.07 | | | | | |
| 1.03 | 4.20 | 35.10 | 0.00 | 13.90 | | | | | | | 2.25 | 6.45 | 53.92 | | | | | | |
| VACAVACGCC | | 0322 | 000000 | 00 | | | | | | | 288. | 1026. | 40.7 | 24.85 | | | | | |
| 1.03 | 26.56 | 25.88 | 0.00 | 13.90 | | | | | | | 4.00 | 30.56 | 29.79 | | | | | | |
| VACAVACGCC | | 0323 | 000000 | 00 | | | | | | | 91. | 67. | 8.4 | 34.83 | | | | | |
| 1.03 | 2.41 | 35.86 | 0.00 | 13.90 | | | | | | | 1.26 | 3.68 | 54.68 | | | | | | |
| TVA | CGCC | 0622 | 000000 | 00 | | | | | | | 1290. | 1565. | 13.8 | 23.39 | | | | | |
| 1.03 | 38.21 | 24.42 | 0.00 | 13.90 | | | | | | | 17.93 | 56.14 | 35.88 | | | | | | |
| SOU | CGCC | 0612 | 000000 | 00 | | | | | | | 5. | 3. | 5.9 | 27.25 | | | | | |
| 1.03 | 0.07 | 28.28 | 0.00 | 13.90 | | | | | | | 0.07 | 0.14 | 55.27 | | | | | | |
| SOU | CGCC | 0622 | 000000 | 00 | | | | | | | 1604. | 3559. | 25.3 | 23.72 | | | | | |
| 1.03 | 88.09 | 24.75 | 0.00 | 13.90 | | | | | | | 22.30 | 110.38 | 31.02 | | | | | | |
| SOU FLCGCC | | 1522 | 000000 | 00 | | | | | | | 240. | 1453. | 69.1 | 23.20 | | | | | |
| 1.03 | 35.20 | 24.23 | 0.00 | 13.90 | | | | | | | 3.34 | 38.53 | 26.53 | | | | | | |
| ENTG | CGCC | 1012 | 000000 | 00 | | | | | | | 52. | 27. | 5.9 | 23.91 | | | | | |
| 1.03 | 0.67 | 24.94 | 0.00 | 13.90 | | | | | | | 0.72 | 1.39 | 51.93 | | | | | | |
| ENTG | CGCC | 1013 | 000000 | 00 | | | | | | | 13. | 2. | 2.0 | 29.02 | | | | | |
| 1.03 | 0.07 | 30.05 | 0.00 | 14.50 | | | | | | | 0.19 | 0.26 | 114.68 | | | | | | |
| ENTG | CGCC | 1022 | 000000 | 00 | | | | | | | 1891. | 8325. | 50.3 | 23.25 | | | | | |
| 1.03 | 202.09 | 24.28 | 0.00 | 13.90 | | | | | | | 26.28 | 228.38 | 27.43 | | | | | | |
| ENTGTXCGCC | | 1912 | 000000 | 00 | | | | | | | 6. | 0. | N/A | 0.00 | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 13.90 | | | | | | | 0.08 | 0.08 | 0.00 | | | | | | |
| ENTGTXCGCC | | 1921 | 000000 | 00 | | | | | | | 440. | 72. | 1.9 | 16.90 | | | | | |
| 1.03 | 1.30 | 17.93 | 0.00 | 14.90 | | | | | | | 6.56 | 7.85 | 108.57 | | | | | | |

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ENTGTXCGCC 1922   000000 00                    353.      60.      2.0    23.25
 1.03     1.47    24.28     0.00    13.90     4.91     6.37   105.41
ENTGTXCGCC 2712   000000 00                     25.     148.     67.8    23.25
 1.03     3.60    24.28     0.00    13.90     0.35     3.95    26.62
ENTGTXCGCC 2722   000000 00                    513.     268.      6.0    23.25
 1.03     6.51    24.28     0.00    13.90     7.13    13.64    50.86
SPPS  CGCC 1022   000000 00                    448.    3548.     90.4    21.84
 1.03    81.13    22.87     0.00    13.90     6.23    87.35    24.62
SPPS  CGCC 3622   000000 00                    450.    3564.     90.4    21.84
 1.03    81.49    22.87     0.00    13.90     6.25    87.74    24.62
SPPS  CGCC 3623   000000 00                    108.      56.      5.9    28.79
 1.03     1.66    29.82     0.00    13.90     1.50     3.16    56.82
CALI  CGCC 0811   000000 00                     1.       8.     90.4    21.42
 1.03     0.18    22.45     0.00    13.90     0.01     0.19    24.21
CALI  CGCC 0812   000000 00                    213.    1687.     90.4    27.07
 1.03    47.39    28.10     0.00    14.20     3.02    50.42    29.89
CALI  CGCC 0813   000000 00                    319.    1895.     67.8    31.39
 1.03    61.43    32.42     0.00    14.50     4.63    66.05    34.86
CALI  CGCC 0822   000000 00                   2938.   23268.     90.4    24.87
 1.03   602.58    25.90     0.00    13.90    40.84   643.42    27.65
CALI  CGCC 0823   000000 00                    840.    4989.     67.8    31.49
 1.03   162.26    32.52     0.00    14.60    12.26   174.52    34.98
PNW   CGCC 0722   000000 00                    165.    1307.     90.4    19.64
 1.03    27.02    20.67     0.00    13.90     2.29    29.31    22.43
PNW   CGCC 0723   000000 00                    123.     974.     90.4    26.75
 1.03    27.06    27.78     0.00    13.90     1.71    28.77    29.54
PNW   CGCC 0812   000000 00                     13.     103.     90.4    21.09
 1.03     2.28    22.12     0.00    13.90     0.18     2.46    23.88
PNW   CGCC 0822   000000 00                    820.    6494.     90.4    20.76
 1.03   141.49    21.79     0.00    13.90    11.40   152.89    23.54
AZNM  CGCC 0812   000000 00                     73.     129.     20.2    24.71
 1.03     3.33    25.74     0.00    13.90     1.01     4.34    33.59
AZNM  CGCC 0813   000000 00                    102.     181.     20.2    27.29
 1.03     5.11    28.32     0.00    13.90     1.42     6.53    36.17
AZNM  CGCC 0822   000000 00                   1190.    2107.     20.2    22.24
 1.03    49.03    23.27     0.00    13.90    16.54    65.57    31.12
AZNM  CGCC 0823   000000 00                    113.      88.      8.9    27.64
 1.03     2.53    28.67     0.00    13.90     1.57     4.10    46.48
RMPA  CGCC 0812   000000 00                     55.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     0.76     0.76     0.00
RMPA  CGCC 0813   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.90     0.00     0.00     0.00
RMPA  CGCC 0822   000000 00                    144.      16.      1.2    24.14
 1.03     0.39    25.17     0.00    13.90     2.00     2.39   154.13
RMPA  CGCC 0823   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.10     0.00     0.00     0.00
NWPE  CGCC 0811   000000 00                     10.      71.     80.6    17.05
 1.03     1.28    18.08     0.00    13.90     0.14     1.42    20.05
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Cgn_Gas                       23           42570.  121125.     32.5    25.10
 1.03  3164.90    26.13     0.02    11.81   503.59  3668.49    30.29

ERCTTXCGGAU1811   000000 00                      2.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.04     0.04     0.00
MACE  CGGAU0221   000000 00                     55.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.18     1.18     0.00
MANO  CGGAU0411   000000 00                     16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.17     0.17     0.00
FRCCFLCGGAU1511   000000 00                     16.      29.     20.9    29.71
 2.57     0.94    32.28     0.00    11.70     0.19     1.13    38.68
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Total Annual Costs

Year: 2010

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 0.00     0.00     0.00     0.00   103.60     2.59     2.59    13.48
MACS  CGOTH00     000000 00                   54.     415.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     5.59     5.59    13.48
MAPP  CGOTH00     000000 00                    2.      15.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     0.21     0.21    13.48
UPNY  CGOTH00     000000 00                   44.     338.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     4.56     4.56    13.48
DSNY  CGOTH00     000000 00                    7.      54.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     0.73     0.73    13.48
NENG  CGOTH00     000000 00                   27.     207.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     2.80     2.80    13.48
FRCC  CGOTH00     000000 00                   22.     169.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     2.28     2.28    13.48
VACA  CGOTH00     000000 00                   10.      77.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.48
SPPS  CGOTH00     000000 00                   34.     261.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.48
CALI  CGOTH00     000000 00                   29.     223.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     3.00     3.00    13.48
NWPE  CGOTH00     000000 00                   10.      77.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.48
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Cgn_Other                      25            1075.    7118.     75.6     4.95
 2.29    51.51     7.24     0.00    81.99    88.14   139.65    19.62

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NonCG IPP_Coal                 26               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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NonCG IPP_Gas                  27               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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NonCG IPP_Other                28               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Coal                       29               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Gas                        30               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Oil                        31               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1311162040310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1311162050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANOMOTCOLU0511282050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0711312050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111261040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111271040210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111261040310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111252020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111262050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131272020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131252020210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311161010710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311162020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311162040210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022050110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022020210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022050210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| UPNY | TCOLU0131022020110 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NENG | TCOLU0911012050710 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFLTCOLU1531132020110 | | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TCOLU0631041050710 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TCOLU0631102050710 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANCTCOLU0631102020110 | | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANCTCOLU0631102020210 | | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVATCOLU0331092050710 | | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TCOLU1731281020310 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TCOLU1731282020110 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTCOLU0511252050710 | | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTCOLU0511272050710 | | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPSTXTCOLU3531292050710 | | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | TCOLU0811372050710 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | TCOLU0832372050710 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | TCOLU0811351020710 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | TCOLU0811402050110 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | TCOLU0811342050710 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | TCOLU0811352050710 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | TCOLU0831331020310 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | TCOLU0811332050710 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | TCOLU0831332050710 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| UPNY | TCOLN0131022020102 | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NENGNHTCOLN2931012020102 | | | 01 | | CC01 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

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ECAO  TCOLS0231411020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0611182020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLS1111252020203 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411181020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411182020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0611191020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOMDTOLBU0231082020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0232032050110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1312162020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs
Year: 2010

| | | |

ECAO TSABU0441201020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSABC2941011010101 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSABN0241032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABS0241032020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020303 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020303 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPS | TSASU3641282020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TSASU3541292020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TSASU3541292020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSASU0832342020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSASU0841342020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0742322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0841322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0842322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSBBU0441392020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0632061020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0632062020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0641062020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINT | SBBU0441182020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SBBU0431042020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SBBU0441041020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SBBU0441042020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILT | SBBU0441181010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1112271020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1112272040210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1131262020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1131262020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1132271040110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNET | SBBU1432282020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNET | SBBU1441282010310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPPNETSBBU1442282010310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSBBU0812341020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241042020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0231032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0241032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSBBN0141031010102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBN0641102020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341091020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341092020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341092020202 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 CC01 0. 0. N/A 0.00
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MANO TSBSU0432172010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | | Gener. | | C.F. | | Fuel | | | |
| VOM | | | | | | | Total | | Capital | | FOM | | | Total | | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | [MW] | | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | | MMUS$ | | mill/kWh | | | | | |
| ECAOINTSCBU0432181020110 | | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAOINTSCBU0441182020110 | | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACE | TSCBU0131032020310 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACEDETSCBU0231032020110 | | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACW | TSCBU0241032020110 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACW | TSCBU0241032020310 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACW | TSCBU0242032020110 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MAPP | TSCBU1131272010110 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MAPP | TSCBU1131252020110 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MAPP | TSCBU1132252020210 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| UPNY | TSCBU0131022020110 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| UPNY | TSCBU0141022020210 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| VACA | TSCBU0631102020110 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| VACA | TSCBU0641102020110 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| TVA | TSCBU0641212020210 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SOU | TSCBU0641232020210 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPN | TSCBU1731282010310 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPN | TSCBU1732281010110 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPN | TSCBU1732282020110 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| RMPA | TSCBU0832342020310 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| RMPA | TSCBU0841342020310 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACEDETSCBN0241032020102 | | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSCSO0441182010102 | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| WUMSWITSCSU1341161010110 | | | | | | 01 | | | | | CC01 | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |

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WUMSWITSCSU1341162020510 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1142252020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSCSU1342162020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSDBU0241081020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     CC01         152.    1204.     90.4    24.94
 1.95    32.37    26.89    64.89    11.70    11.64    44.01    36.56
NENG  TSDBN2841012020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSEBU0442142020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0232032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0241032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBU1141252020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0632232020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020401 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSEBC0641221010101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBN0441142020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBN2842012020102 01 CC01 | 61. | 483. | 90.4 | 24.94 | 1.95 | 12.99 | 26.89 | 64.89 | 11.70 | 4.67 | 17.66 | 36.56 |
| ECAOOHTSEBS0431141010103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBS1142252020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSEBS1541132020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312010110 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312020110 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MANO TSESU0441172010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 CC01 0. 0. N/A 0.00
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MECSMITSGBU0431392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 CC01 0. 0. N/A 0.00
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MANOILTSGBU0432192020110 01 CC01 0. 0. N/A 0.00
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MANOMOTSGBU0511271040310 01 CC01 0. 0. N/A 0.00
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MANOMOTSGBU0511272020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 CC01 0. 0. N/A 0.00
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MAPP TSGBU1132272020110 01 CC01 0. 0. N/A 0.00
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MAPP TSGBU1132272020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| | | |

WUMSWITSHBU1332162010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391050710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOINTSKBU0432182020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS TSKBU0411391020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0632102020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0641102020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSKSU1141261010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSLBU0432152020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSLBU0441152020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0231052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0232052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0241052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0411141020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0411141050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0412141020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0432141020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0632182020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACENJTSLBU0112032020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSLBU1341392020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSLBU1112261020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSLBU1412281020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSLBU0531281020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTSLBN2932012020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSLSU0641222020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSLSU0712261020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBS0541272020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AZNM TSUBS0841361020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0441142020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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AZNM  TSXSS0842352020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSXSS0832402020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0742322020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBU0432191010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0432192020204 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0441192020103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBS0441191010103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741282020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBA0441192020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1741282020304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0431192020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0432192010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBS0431142010103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBS1541121020103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0841322020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0842322020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CGCOU0431392050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOU0231412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOU0411142050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0211412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0211412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0231412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0232412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICGCOU1211162050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICGCOU1311162050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGCOU1111262050210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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MACW  CGCOD0231412050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSXBA0141022020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSXBA1541122020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSXBA1541132020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSXBA0641101020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSXBA0642101020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSXBA0641222020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSXBA0641222020705 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSASS0732312020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASS0841342020303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBA0341092020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSABA1541132020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBA1541122020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLA0411182020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLA0831402020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

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SPPNMOTSUBU0541272020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Rep.Coal-CC                   34             213.    1687.     90.4    24.94
 1.95    45.36    26.89    64.89    11.70    16.31    61.67    36.56

MECS  STGAU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2711   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0111   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0121   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  STGAU0412   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1311   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1321   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOSTGAU0511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  STGAU1111   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  STGAU1112   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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SPPNMOSTGAU0521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1011   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3611   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTGAU1611   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU3511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAU0811   000000 00     OC01          80.     634.     90.4    23.48
 1.95    16.11    25.43    62.57    11.70     5.94    22.05    34.80
CALI  STGAU0821   000000 00     OC01         144.    1139.     90.4    23.48
 1.95    28.97    25.43    62.57    11.70    10.68    39.65    34.80
AZNM  STGAU0811   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  STGAU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0811   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  STGAU0822   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0422   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU1821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2321   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0112   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0121   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0222   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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CALI STHSU0821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSN0121 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSN3221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2212 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2222 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2321 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2322 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2422 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2511 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2512 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2522 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3522 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0121 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0122 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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FRCCFLSTLSU1521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLSTLSU1522   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0321   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0322   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1622   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1022   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0512   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0822   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1011   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1012   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1022   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3612   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3622   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTLSU1612   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2222   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2522   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU3522   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0822   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   STLSU0721   000000 00     OC01          94.     744.     90.4    19.65
 1.95    16.08    21.60    58.95    11.70     6.64    22.72    30.52
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Total Annual Costs
Year: 2010

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ERCTTXSTHSO2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO3521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2022   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STLSO0922   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STGAO0111   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAC0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STHSD2821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Rep.O/G-CC                    35            4643.   36769.     90.4    23.52
 1.95   936.45    25.47    62.65    11.70   345.20  1281.65    34.86

MECS  TCOLU0411392050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431152020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431392020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0211412050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0231082020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0411181050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0411142050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431041020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431141020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431142020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431182020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431192020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431042050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0611062020210 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0631051020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0631202020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATCOLU0331062020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0211412050210 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0231031020310 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2010

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MAPPWITCOLU1311162040210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0131022020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TCOLU0911012050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTCOLU1531132020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631041050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATCOLU0331092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731281020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLU0511252050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLU0511272050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTCOLU3531292050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0811372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0832372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811351020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811402050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811342050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811352050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0811332050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLN0131022020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTCOLN2931012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0231411020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0611182020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0631041050303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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MACW TOLBU0231032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0232032050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBU1311161020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBU1312162020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0512282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632101020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1732282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0511281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBS0432142020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBS1312162030304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBS0432191010103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBS0432192010203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TOLSU0812321020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TRRBS0832342030304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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ERCTTXTSASU2341292020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0841342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 CG02 0. 0. N/A 0.00
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MAPP TSBBU1112271020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112272040210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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MAPPNETSBSU1432282020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSCBU0131032020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSCBU0231032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1131272010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1131252020110 01 CG02 0. 0. N/A 0.00
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MAPP TSCBU1132252020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0131022020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1731282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0832342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSCBN0241032020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSO0441182010102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

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MAPP TSDSU1132252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBC0241072020101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBC0641102020101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBC0641102020401 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSEBC0641221010101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBS0431141010103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBS1142252020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSEBS1541132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | Total | | Capital | | FOM | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | mill/kWh | | |
| | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| UPNY | TSFBO0141022020102 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFBU0431142020210 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFBU0432142020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFBU0432142020210 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOKY | TSFBU0641201020210 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOT | SFBU0542251010110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| UPNY | TSFBU0131022020210 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| NENG | TSFBU2832012020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SOU | TSFBU0641112020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SOU | TSFBU0642112020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TSFBU1742282020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMIT | SGBU0431392020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMIT | SGBU0432391050210 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMIT | SGBU0441392020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWIT | SGBU1231392020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWIT | SGBU1232392020310 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOILT | SGBU0431192020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOILT | SGBU0432192020110 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOT | SGBU0511271040310 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOT | SGBU0511272020710 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOT | SGBU0531272040310 | 01 | | | | | | CG02 | | | | | | | 0. | 0. | N/A | | 0.00 | | 0.00 | | 0.00 |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

MAPP TSGBU1132271010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSGBU0511271020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBS1231392020104 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBS0412191020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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MECS TSKBU0412391020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSKBU0411391020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0632102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0432152020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0231052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0232052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0411141020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0411141050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0412141020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0432141020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0632182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSLBU0112032020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSLBU1112261020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSLBU1412281020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSLBU0531281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSLBN2932012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSLSU0712261020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| | | | | | | | | | | | | | | | Total | Total | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| AZNM | TSUBS0841362020703 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSUBS0841332020304 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSUBS0842332020203 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSUBS0842332020304 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSVBS0641201020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSVBS0641202020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINT | SVBS0431182020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINT | SVBS0432181020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINT | SVBS0441181010103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINT | SVBS0441182020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSXBU0641041020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSXBU0441192020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSXBU0841402020110 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSXBS0432392020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSXBS0432392020203 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSXBS0242412020703 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSXBS0441142020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSXBS0641201020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSXBS0641202020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSXBS0642201020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS | TSXBS0432392020304 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSXBS0441191020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSXBS0441192020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSXBS1142272020103 | 01 | CG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

UPNY TSXBS0141022020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841402020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841362020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBD0241041020207 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSXBD0141031010107 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSXBD0341092020307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302030303 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSXSS0832402020104 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | | | | Total | | Capital | | FOM | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MANO | TSYBU0432191010210 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSYBS0432192020204 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSYBS0441192020103 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSYBS0441191010103 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TSYBS1741282020703 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TSYBS1742282020703 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSYBA0441192020105 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TSYSS1741282020304 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSZBU0431192020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSZBU0432192010210 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | TSZBN0241031020102 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSZBS0431142010103 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | TSZBS0241032020203 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| FRCCFL | TSZBS1541121020103 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPEWY | TSZLS0841322020703 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPEWY | TSZLS0842322020104 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | CGCOU0431392050710 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | CGCOU0231412050710 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | CGCOU0411142050710 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | CGCOU0141012050710 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | CGCOU0211412050710 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | CGCOU0211412050710 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | CGCOU0231412050710 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | CGCOU0232412050710 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

MACW CGCOU0241412050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1211162050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1311162050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOU0131022050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCOU0931012050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CGCOU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0311092050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0331092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCOU0611112050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0811372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0831372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0832372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE CGCOU0731322050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOS0331092050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOD0231412050307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOD0131022050307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOD0631102050308 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

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RMPA  TCOLA0831402020105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSO1332392020102 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSJBO0412392020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBE0232041020207 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBE0242041020207 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TCOLC0141012050301 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLE0411391030308 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Rep.Coal-IGCC                  36               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSABU0441182020110 01     LO01         543.    4046.     85.0     7.87
 2.89    43.54    10.76    22.44    25.77    26.20    69.74    17.24
MANO  TSABU0441182020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0541252020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0542252020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     ML02         101.     749.     85.0    17.27
 2.51    14.81    19.78    26.16    36.57     6.31    21.12    28.21
VACANCTSABU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641232020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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SPPSTXTSASU3541292020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01         370.    2756.     85.0     9.20
 2.54    32.36    11.74    37.80    41.17    29.22    61.58    22.35
ECAOOHTSBBU0441041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSBBU0441181010110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00    24.96    38.21     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.301
Total Annual Costs
Year: 2010

| Unit | Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOU | TSBBU0641242020110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSBBU0641242020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSBBU0641242020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | MSTSBBU1641241020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | MSTSBBU1641241020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | MSTSBBU1641242020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | MSTSBBU1641242020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSBBU0841361020310 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSBBU0841362020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSBBU0841332020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTX | TSBLU2241302020110 02 LD01 | 563. | 4192. | 85.0 | 13.15 | 3.64 | 70.37 | 16.79 | 19.20 | 32.27 | 28.97 | 99.35 | 23.70 |
| ERCTTX | TSBLU2241302020410 02 LD01 | 1116. | 8311. | 85.0 | 13.54 | 3.64 | 142.80 | 17.18 | 19.32 | 32.27 | 57.57 | 200.38 | 24.11 |
| ERCTTX | TSBLU2242302020410 02 LD01 | 242. | 1803. | 85.0 | 13.68 | 3.73 | 31.40 | 17.41 | 19.68 | 32.37 | 12.60 | 44.00 | 24.40 |
| MAPPSD | TSBLU0742261010110 02 ML02 | 337. | 2509. | 85.0 | 11.86 | 2.64 | 36.39 | 14.50 | 26.64 | 36.27 | 21.20 | 57.59 | 22.95 |
| MECS | TSBSU0441392020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSBSU0441392020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTX | TSBSU2341292020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTX | TSBSU2341292020110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSBSU0432172010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSBSU0432172010110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSBSU0441172020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSBSU0441172020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSBSU0441172020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSBSU0441172020210 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MAPPNETSBSU1441282020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBU0441041020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs
Year: 2010

| | | |

ECAOVATSDBU0341061020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSEBU0442142020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0241032020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBU0442181010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBU0442181010110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBU1141252020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020310 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312010110 02 ML02 | 676. | 5030. | 85.0 | 10.09 | 2.64 | 64.02 | 12.73 | 29.04 | 37.37 | 44.86 | 108.88 | 21.65 |
| MAPPNDTSELU0742312020110 02 ML01 | 370. | 2756. | 85.0 | 9.77 | 2.62 | 34.15 | 12.39 | 31.56 | 44.69 | 28.22 | 62.37 | 22.63 |
| ECAO TSESU0441171010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MANO TSESU0441172020310 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641041020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 LO02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 LD02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

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TVA   TSGBU0642222020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00    24.00    37.30     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LD02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     LO01        421.    3135.     85.0     7.39
 2.89    32.21    10.28    38.16    44.99    35.00    67.21    21.44
VACA  TSHBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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VACANCTSKBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSXBU0441192020110 01     LO01         227.    1692.     85.0     7.70
 2.93    17.98    10.63    29.88    38.09    15.44    33.42    19.76
MANO  TSXBU0441192020110 01     ML02         431.    3207.     85.0     8.63
 2.52    35.77    11.15    27.60    38.19    28.33    64.10    19.99
NWPE  TSXBU0841402020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPNMOTSUBU0541272020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.Scrubber 37 | 5397. | 40184. | 85.0 | 10.79 | 3.04 | 555.81 | 13.83 | 26.12 | 35.76 | 333.93 | 889.74 | 22.14 |
| NENGNHTSABC2941011010101 01 ML01 | 424. | 3157. | 85.0 | 13.64 | 3.49 | 54.06 | 17.13 | 27.72 | 40.11 | 28.75 | 82.82 | 26.24 |
| VACANCTSABC0641101020201 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 ML02 | 416. | 3097. | 85.0 | 12.68 | 3.47 | 50.02 | 16.15 | 26.76 | 33.49 | 25.06 | 75.08 | 24.24 |
| SOU ALTSABC0641232020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBC0641061020101 01 LO01 | 84. | 625. | 85.0 | 9.40 | 3.85 | 8.28 | 13.25 | 18.72 | 34.48 | 4.46 | 12.74 | 20.39 |
| ECAO TSDBC0641061020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 ML02 | 1062. | 7910. | 85.0 | 8.57 | 3.42 | 94.86 | 11.99 | 21.36 | 41.50 | 66.77 | 161.63 | 20.43 |
| ECAOOHTSDBC0441042020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441042020101 01 ML02 | 490. | 3645. | 85.0 | 9.57 | 3.50 | 47.62 | 13.07 | 23.52 | 36.28 | 29.27 | 76.90 | 21.10 |
| VACANCTSDBC0641101020101 01 LO02 | 1086. | 8088. | 85.0 | 12.04 | 3.83 | 128.35 | 15.87 | 20.28 | 34.18 | 59.15 | 187.50 | 23.18 |
| VACANCTSDBC0641101020101 01 LD02 | 1107. | 8241. | 85.0 | 12.08 | 4.35 | 135.40 | 16.43 | 15.24 | 31.08 | 51.26 | 186.67 | 22.65 |
| ECAO TSEBC0641042020101 01 LO02 | 4112. | 30618. | 85.0 | 8.47 | 3.84 | 376.76 | 12.31 | 21.12 | 33.05 | 222.74 | 599.50 | 19.58 |
| ECAO TSEBC0641042020101 01 LD02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 ML02 | 317. | 2362. | 85.0 | 10.91 | 3.45 | 33.91 | 14.36 | 27.60 | 43.50 | 22.55 | 56.46 | 23.91 |
| MACS TSEBC0241072020201 01 LO01 | 1264. | 9411. | 85.0 | 11.86 | 3.93 | 148.61 | 15.79 | 21.48 | 23.02 | 56.25 | 204.86 | 21.77 |
| MACS TSEBC0241072020201 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBC0441181010101 01 LO01 | 542. | 4039. | 85.0 | 8.60 | 3.95 | 50.68 | 12.55 | 23.28 | 35.68 | 31.98 | 82.66 | 20.47 |
| MANO TSEBC0441181010101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020101 01 ML02 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020401 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBC0641112020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBC0641112020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     LO01         607.    4520.     85.0     9.11
 3.87    58.66    12.98    21.36    35.28    34.38    93.04    20.58
MACW  TSHBC0241411020101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     LO01        2075.   15447.     85.0     9.06
 3.84   199.24    12.90    19.80    34.78   113.23   312.46    20.23
MACW  TSHBC0241412020101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBC0641112020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBC0641112020101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBC0441041020201 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBC0441041020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     LO01         861.    6408.     85.0     9.31
 3.81    84.07    13.12    17.64    39.90    49.51   133.58    20.85
TVA   TSCBC0641212020101 01     LD02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBC0641102020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBN0641042020102 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     LO01         584.    4352.     85.0     9.59
 3.76    58.09    13.35    21.24    34.87    32.79    90.89    20.88
ECAOOHTSGBN0441142020102 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capital Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh
MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
ECAO TSHBN0441041020102 01 LD01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020102 01 LO01 587. 4374. 85.0 8.73 3.80 54.80 12.53 21.60 34.97 33.23 88.03 20.13
ECAO TSHBN0441042020102 01 LD01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020302 01 LO01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020302 01 ML01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret.ExistSNCR & Scrub 39 1352. 10070. 85.0 9.17 3.73 129.92 12.90 21.64 35.05 76.66 206.58 20.51

ECAO TCOLU0241082050710 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLU0442192020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0441142020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 SCR2 211. 1181. 63.9 10.42 2.53 15.29 12.95 10.08 27.00 7.82 23.11 19.58
MECS TSABU0441391020110 01 SCR2 790. 5883. 85.0 10.08 2.39 73.34 12.47 6.36 22.70 22.96 96.30 16.37
ECAO TSABU0441201020110 01 SCR2 480. 3574. 85.0 10.59 2.57 47.03 13.16 11.16 32.60 21.00 68.03 19.03
ECAOOHTSABU0441051010110 01 SCR2 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 SCR2 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 SCR1 0. 0. N/A 0.00
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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0541252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0542252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     SCR1         924.    6880.     85.0     9.82
 2.44    84.33    12.26     7.68    24.10    29.36   113.69    16.52
MAPP  TSABU1141282010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     SCR2         670.    4989.     85.0    12.45
 2.40    74.10    14.85     6.72    22.80    19.78    93.88    18.82
SOU ALTSABU0641232020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SCR2         650.    2574.     45.2    13.88
 2.41    41.94    16.29     6.84    22.80    19.27    61.21    23.78
ERCTTXTSASU1941292020310 01     SCR1        1210.    4814.     45.4    13.58
 2.41    76.98    15.99     6.96    25.00    38.67   115.65    24.03
ERCTTXTSASU2341292020110 01     SCR1         810.    6032.     85.0    13.79
 2.45    97.97    16.24     8.04    24.80    26.60   124.57    20.65
MANO  TSASU0441202020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPSTXTSASU3541292020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 7.44 | 26.80 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241042020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0641062020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSBBU0441182020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441041020110 01 SCR2 | 134. | 926. | 78.9 | 11.43 | 2.60 | 12.99 | 14.03 | 11.76 | 32.70 | 5.96 | 18.95 |
| ECAOOHTSBBU0441042020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSBBU0441181010110 01 SCR2 | 298. | 1859. | 71.2 | 11.90 | 2.44 | 26.67 | 14.34 | 7.68 | 28.90 | 10.90 | 37.57 |
| MAPPNETSBBU1441282010310 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBBU1442282010310 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 SCR2 | 512. | 3813. | 85.0 | 14.30 | 2.43 | 63.80 | 16.73 | 7.44 | 26.80 | 17.53 | 81.33 |

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SOU MSTSBBU1641242020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020110 02     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPSDTSBLU0742261010110 02     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBU0441041020210 01     SCR2         600.    4147.     78.9    11.56
 2.41    57.94    13.97     6.96    17.80    14.86    72.80    17.55
MACW  TSCBU0241032020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     SCR1         479.    3563.     85.0     9.97
 2.41    44.10    12.38     6.96    17.80    11.85    55.95    15.70
WUMSWITSCSU1341161010110 01     SCR2         342.    2547.     85.0     8.87
 2.47    28.88    11.34     8.52    26.90    12.11    41.00    16.10
WUMSWITSCSU1341162020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSCSU1341162020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141251020210 01 SCR2 | 714. | 4935. | 78.9 | 11.73 | 2.40 | 69.74 | 14.13 | 6.60 | 17.80 | 17.42 | 87.16 | 17.66 |
| MAPP TSCSU1141252020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141252020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1142252020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSCSU1342162020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSDBU0441392020110 01 SCR1 | 609. | 4535. | 85.0 | 10.17 | 2.49 | 57.40 | 12.66 | 8.88 | 32.50 | 25.20 | 82.60 | 18.21 |
| ECAO TSDBU0641062020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOVATSDBU0341061020110 01 SCR2 | 925. | 6888. | 85.0 | 10.83 | 2.52 | 91.95 | 13.35 | 9.72 | 32.50 | 39.05 | 131.01 | 19.02 |
| ECAOWVTSDBU0641051010110 01 SCR2 | 156. | 1081. | 78.9 | 9.82 | 2.54 | 13.37 | 12.36 | 10.32 | 32.60 | 6.71 | 20.08 | 18.57 |
| MACSMDTSDBU0241081020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 7.68 | 28.90 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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VACANCTSDBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     8.88    29.80     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SCR2        431.    2979.     78.9    11.64
 2.45    41.97    14.09     7.80    26.80    14.91    56.88    19.10
ECAO  TSESU0441172020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     SCR2        567.    3919.     78.9    10.74
 2.42    51.56    13.16     7.08    26.80    19.21    70.77    18.06
SOU   TSESU0641111020210 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     6.24    17.70     0.00     0.00     0.00
SOU   TSESU0641112020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     SCR2        500.    3723.     85.0     9.63
 2.43    44.89    12.06     7.44    32.40    19.92    64.81    17.41
ECAOKYTSFBU0641201020210 01     SCR2        983.    6794.     78.9    11.48
 2.43    94.52    13.91     7.44    17.80    24.81   119.34    17.57
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ECAO  TSHBU0441042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     SCR2         680.    4700.     78.9    11.53
 2.56    66.21    14.09    10.92    32.60    29.59    95.81    20.39
ECAO  TSHBU0641042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     6.24    29.50     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSISU0441171010110 01     SCR2         469.    3241.     78.9    11.69
 2.44    45.80    14.13     7.68    26.80    16.17    61.97    19.12
MAPP  TSISU1142262020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSISU1341392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISU0541271010110 01     SCR2         450.    3351.     85.0    11.33
 2.52    46.42    13.85     9.84    29.10    17.52    63.94    19.08
ECAO  TSJBU0441051020110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     7.08    26.80     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SCR2         390.    2719.     79.6     9.31
 2.46    32.00    11.77     8.16    26.80    13.63    45.64    16.78
ECAO  TSKBU0441042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     SCR2         222.    1385.     71.2    11.36
 2.53    19.23    13.89     9.96    32.50     9.43    28.65    20.69
MECSMITSLBU0441152020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISS1141262020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISS0541272020103 01     SCR1         670.    4989.     85.0    11.29
 3.80    75.28    15.09     6.72    36.00    28.62   103.91    20.83
SPPNMOTSUBS0541272020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841361020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0841332020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0842332020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0842332020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBS0641201020103 01     SCR2         633.    4714.     85.0     7.79
 3.88    55.01    11.67     8.76    43.20    32.89    87.90    18.65
ECAO  TSVBS0641202020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBS0441181010103 01     SCR2         480.    3574.     85.0     7.89
 3.92    42.21    11.81     9.60    43.30    25.39    67.60    18.91
ECAOINTSVBS0441182020103 01     SCR1        1664.   12391.     85.0     8.51
 3.85   153.18    12.36     7.92    42.50    83.90   237.08    19.13
ECAO  TSXBS0241042020103 01     SCR1        1080.    8042.     85.0     8.97
 3.82   102.87    12.79     7.20    41.60    52.70   155.58    19.35
ECAO  TSXBS0241042020703 01     SCR1        1566.   11661.     85.0     9.46
 3.79   154.56    13.25     6.36    43.10    77.45   232.02    19.90
ECAO  TSXBS0242412020703 01     SCR1         134.     998.     85.0    10.92
 4.00    14.88    14.92    11.76    43.70     7.43    22.32    22.36
ECAO  TSXBS0441142020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBS0641201020103 01     SCR2         469.    3492.     85.0     8.01
 3.92    41.67    11.93     9.72    43.30    24.87    66.54    19.05
ECAO  TSXBS0641042020103 01     SCR1        1228.    9144.     85.0     9.47
 3.81   121.46    13.28     6.96    41.00    58.89   180.36    19.72
ECAO  TSXBS0641202020103 01     SCR1         993.    7394.     85.0     7.86
 3.91    87.04    11.77     9.48    42.30    51.42   138.45    18.72
ECAO  TSXBS0642201020103 01     SCR2         155.    1154.     85.0     8.49
 3.98    14.39    12.47    11.28    43.60     8.51    22.89    19.84
MANO  TSXBS0441191020103 01     SCR2         366.    2725.     85.0     8.73
 3.86    34.32    12.59     8.28    43.20    18.84    53.16    19.51
MANO  TSXBS0441192020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSXBS1142272020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSXBS0141022020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSXBS0641101020103 01     SCR2         270.    2011.     85.0    12.96
 3.90    33.89    16.86     9.24    36.10    12.24    46.13    22.95
VACA  TSXBS0641102020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSXBS0641222020203 01     SCR1         472.    3515.     85.0     9.39
 3.92    46.80    13.31     9.72    41.10    23.99    70.78    20.14
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AZNM  TSXSS0841351020303 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0841352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0841352020303 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842351020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842351020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842352020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0741322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0742322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0441192020103 01     SCR1        1722.   12823.     85.0     8.49
 3.85   158.18    12.34     7.80    36.00    75.42   233.61    18.22
ECAOOHTSYBS0441042020103 01     SCR1        1300.    9680.     85.0     8.57
 3.78   119.55    12.35     6.24    23.40    38.53   158.08    16.33
MACW  TSYBS0241412020103 01     SCR1        1700.   12659.     85.0     8.83
 3.78   159.58    12.61     6.24    43.00    83.71   243.29    19.22
MANO  TSYBS0441191010103 01     SCR2         170.    1266.     85.0     9.15
 3.96    16.60    13.11    10.92    41.20     8.86    25.46    20.11
SPPN  TSYBS1741281010703 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741282020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1141262020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1142262020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1142262020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1741282020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1742282020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     SCR1         581.    4326.     85.0    13.04
 3.89    73.23    16.93     9.00    43.40    30.44   103.68    23.96
FRCCFLTSZBS1541121020103 01     SCR2         957.    7126.     85.0    11.98
 3.84   112.73    15.82     7.56    36.00    41.69   154.41    21.67
FRCCFLTSZBS1541122020103 01     SCR1        2315.   17238.     85.0    12.08
 3.82   274.03    15.90     7.08    36.00    99.73   373.76    21.68
MAPPWYTSZLS0841322020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPAWYTSZLS0841322020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0841322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0842322020104 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCGCOS3141012050703 01     SCR1          68.     494.     83.5    13.39
 3.94     8.56    17.33    10.32    23.70     2.30    10.86    21.98
RMPA  TSASS0841342020303 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     SCR2         132.     983.     85.0    10.01
 4.00    13.77    14.01    11.88    43.70     7.34    21.11    21.47
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Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPNMOTSBSS0542282020103 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW WATSBSS0741372020103 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSDSS0541282020103 01 SCR1 | 69. | 517. | 85.0 | 8.97 | 3.80 | 6.60 | 12.77 | 6.72 | 41.00 | 3.31 | 9.92 | 19.18 |
| SPPN TSESS1741282020103 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ExistScrub & SCR | 41 | 23182. | 170915. | 84.2 | 10.12 | 3.84 | 2386.46 | 13.96 | 7.66 | 39.04 | 1082.64 | 3469.09 | 20.30 |
| MECS TCOLU0431152020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TCOLU0431392020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0231082020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431041020110 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431141020110 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431142020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431182020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431192020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431042050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0631051020110 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0631202020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOVATCOLU0331062020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLU0231031020310 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLU0231032020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLU0231412050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLU0241412050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS TCOLU0411392020710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITCOLU1331392020110 01 SNR1 | 0. | 0. | N/A | 0.00 | | | | | | | |

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131272020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131252020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020310 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0131022020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
FRCCFLTCOLU1531132020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACA  TCOLU0631041050710 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACA  TCOLU0631102050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACANCTCOLU0631102020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACANCTCOLU0631102020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACAVATCOLU0331092050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TCOLU1731281020310 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TCOLU1731282020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPSTXTCOLU3531292050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
CALI  TCOLU0832372050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
RMPA  TCOLU0831331020310 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NWPE  TCOLU0831332050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0631191040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632051020110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632052020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632192020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0641052020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOMDTOLBU0231082020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTOLBU0432142020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTOLBU0432142020710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TOLBU0231032020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
```

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MACW | TOLBU0232032050110 | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TOLBU0432192010210 | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOTOLBU0532281010110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TOLBU1141252020110 | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPPMOTOLBU0532281010110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANCTOLBU0632101020210 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANCTOLBU0632102020110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVATOLBU0332092020110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVATOLBU0332092020210 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TOLBU1732282020110 | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TOLBU1742282020110 | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0531281010110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0531281020110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0531282020110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0532281010110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TRRBU0432042020110 | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSABU0441201020110 | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOHTSABU0441051020110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACWPATSABU0241032020110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSABU1141282010210 | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| DSNYNYTSABU0141012020110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| DSNYNYTSABU0142012020110 | | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| TVA | TSABU0641202020310 | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | TSABU0841341020310 | | | | | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

NWPE TSABU0832332020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

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TVA TSDBU0642222020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1331392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1332392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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VACA TSHBU0641102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0632102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0432152020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0231052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0232052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0432141020210 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0632182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSLBU0531281020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1          80.     383.     54.6    12.23
 3.86     6.16    16.09     2.76    43.30     3.68     9.85    25.71
VACANCTCOLS0641102050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBS0432142020304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBS0432191010103 01     HNC1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBS0432192010203 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TRRBS0832342030304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020304 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBS0431141010103 01     HNC1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSGBS1231392020104 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1531132020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1532132020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISS1132262020703 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBS0541272020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020703 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBS0431182020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBS0432181020103 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSXBS0432392020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSXBS0432392020203 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBS0242412020703 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.319
Total Annual Costs
Year: 2010

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ECAOOHTSBBS0441041020304 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistScrub & SNCR         43              80.     383.     54.6    12.23
 3.86     6.16    16.09     2.76    43.30     3.68     9.85    25.71

ECAO  TCOLU0241082050710 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     RO01         238.    1771.     85.0    10.07
 3.90    24.74    13.97    45.60    44.89    21.53    46.27    26.12
MAPP  TOLBU1141252020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSABU0441051010110 01     SO01         401.    2989.     85.0     8.32
 3.90    36.54    12.22    49.68    45.89    38.36    74.90    25.06
ECAOOHTSABU0441051020110 01     SO01         372.    2770.     85.0     8.36
 3.91    33.99    12.27    51.84    46.29    36.51    70.49    25.45
ERCTTXTSABU2341292020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.320
Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACWPATSABU0241032020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSABU0441182020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSABU0441182020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0541252020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0542252020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1142282020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTTSABU3241012020110 01 RL02 | 174. | 1298. | 85.0 | 17.27 | 3.43 | 26.87 | 20.70 | 34.32 | 37.07 | 12.44 | 39.31 | 30.29 |
| VACANCTSABU0641102020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABU0641102020210 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSABU0641112020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSABU0641112020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641231020210 01 SD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641232020210 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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RMPA  TSABU0841341020310 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     RD01         798.    5941.     85.0    12.23
 4.55    99.69    16.78    24.00    27.58    41.16   140.85    23.71
ENTG  TSASU1042292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02         982.    7312.     85.0    11.44
 3.43   108.71    14.87    31.08    31.98    61.92   170.63    23.34
SPPS  TSASU3641282020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.321
Total Annual Costs
Year: 2010

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TVA   TSBBU0641212020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020110 02     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02     RD01         311.    2316.     85.0    14.11
 4.61    43.36    18.72    26.76    32.77    18.51    61.87    26.72
MAPPSDTSBLU0742261010110 02     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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WUMSWITSCSU1341161010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020510 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020510 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1141251020210 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1141252020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1141252020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1142252020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSCSU1342162020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     SL01        611.    4553.     85.0     8.73
 3.50    55.67    12.23    39.72    44.79    51.67   107.34    23.58
MACSMDTSDBU0241081020110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSDBU1241162020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 RL02 | 295. | 2199. | 85.0 | 8.19 | 3.41 | 25.50 | 11.60 | 36.72 | 43.99 | 23.83 | 49.34 | 22.44 |
| MANOILTSDBU0441191020110 01 SL02 | 353. | 2632. | 85.0 | 9.14 | 3.44 | 33.10 | 12.58 | 34.92 | 37.37 | 25.55 | 58.65 | 22.28 |
| MANOILTSDBU0441192020110 01 RL01 | 257. | 1910. | 85.0 | 9.45 | 3.50 | 24.73 | 12.95 | 34.20 | 37.77 | 18.46 | 43.19 | 22.61 |
| MANOMOTSDBU0541252020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SO01 | 1365. | 10162. | 85.0 | 10.19 | 3.75 | 141.70 | 13.94 | 26.64 | 25.47 | 71.12 | 212.82 | 20.94 |
| FRCCFLTSDBU1541132020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 RL02 | 2046. | 15236. | 85.0 | 12.14 | 3.36 | 236.20 | 15.50 | 29.28 | 37.91 | 137.48 | 373.68 | 24.53 |
| TVA TSDBU0641222020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ECAOOHTSEBU0441142020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     SO01         542.    4039.     85.0     8.95
 3.90    51.91    12.85    30.84    41.29    39.12    91.03    22.54
MAPP  TSEBU1141252020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     RL02         140.    1046.     85.0    13.16
 3.44    17.36    16.60    37.92    41.03    11.09    28.45    27.20
VACASCTSEBU0641102020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     SO01          84.     624.     85.0    12.87
 3.76    10.38    16.63    24.96    24.97     4.18    14.56    23.34
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.324
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MECSMITSGBU0441392020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441142020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441142020110 01     RL02         925.    6889.     85.0    10.77
 3.41    97.68    14.18    31.56    37.29    63.70   161.37    23.42
MACS  TSGBU0241082020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSGBU1141272020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSGBU0141022020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSGBU0141022020210 01     RL01         403.    3003.     85.0    13.05
 3.58    49.94    16.63    39.60    44.69    34.00    83.94    27.95
VACANCTSGBU0641101020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     SL01         259.    1932.     85.0    13.36
 3.50    32.56    16.86    33.96    43.39    20.07    52.63    27.24
VACANCTSGBU0641102020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     SL01         191.    1422.     85.0     9.12
 3.51    17.96    12.63    39.84    44.89    16.17    34.13    24.01
ECAO  TSHBU0441041020110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     SO01         573.    4265.     85.0     8.62
 3.76    52.81    12.38    28.80    35.17    36.63    89.44    20.97
ECAO  TSHBU0441042020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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MECS  TSIBU0442392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSISU0441171010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSISU0441171010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSISU1341392020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISU0541271010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISU0541271010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441051020110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441051020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     RO01         583.    4338.     85.0     7.76
 3.75    49.91    11.51    28.56    35.17    37.12    87.03    20.06
VACANCTSKBU0641102020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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MACW TCOLU0241412050710 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLU0442192020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLU0442192020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0441142020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0441142020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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MANOMOTSABU0542252020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 LD01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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ERCTTXTSASU1941292020310 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     ML02SCR1     685.    5099.     85.0    11.64
 3.45    76.95    15.09    30.48    33.92    44.10   121.05    23.74
SPPSTXTSASU2342292020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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MECS  TSBBU0441392020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     SCR2ML02     979.    7290.     85.0     8.89
 3.37    89.35    12.26    30.28    35.97    64.86   154.21    21.15
ECAO  TSBBU0241041020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSBBU0441181010110 01     SCR2ML02       2.      18.     85.0     9.39
 3.43     0.23    12.82    32.80    38.62     0.17     0.40    22.41
MANOILTSBBU0441181010110 01     ML02SCR2     587.    4370.     85.0     9.39
 3.43    56.03    12.82    32.76    38.61    41.88    97.91    22.41
MAPPNETSBBU1441282010310 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.330
Total Annual Costs
Year: 2010

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSBBU0641102020210 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 | SCR1LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 | LD01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 | SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 | SCR2ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 | ML02SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

SOU MSTSBBU1641242020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| VOM | | | | | | | | | | | Total | | Capital | | FOM | Total | | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | mill/kWh | | | |
| | | | | | | | | | | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | | MMUS$ | MMUS$ | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MANO | TSBSU0441172020110 | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| |

MACW TSCBU0241032020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| | | |

MANO TSCSU0441182010110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 LD01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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FRCCFLTSDBU1541131020110 01     SCR2LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | |
| | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MECS | TSEBU0441392020110 | 01 | | | | | | | SCR1LO01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MECS | TSEBU0441392020110 | 01 | | | | | | | SCR1ML01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MECS | TSEBU0441392020110 | 01 | | | | | | | LO01SCR1 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MECS | TSEBU0441392020110 | 01 | | | | | | | ML01SCR1 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOHTSEBU0441142020110 | | 01 | | | | | | | SCR1LO01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOHTSEBU0441142020110 | | 01 | | | | | | | SCR1ML01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOHTSEBU0441142020110 | | 01 | | | | | | | LO01SCR1 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOHTSEBU0441142020110 | | 01 | | | | | | | ML01SCR1 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOHTSEBU0442142020110 | | 01 | | | | | | | SCR1LO01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOHTSEBU0442142020110 | | 01 | | | | | | | SCR1ML01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOHTSEBU0442142020110 | | 01 | | | | | | | LO01SCR1 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOHTSEBU0442142020110 | | 01 | | | | | | | ML01SCR1 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACWPATSEBU0241032020110 | | 01 | | | | | | | SCR1ML01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACWPATSEBU0241032020110 | | 01 | | | | | | | ML01SCR1 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSEBU0241072020110 | 01 | | | | | | | SCR1LO01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSEBU0241072020110 | 01 | | | | | | | SCR1ML01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSEBU0241072020110 | 01 | | | | | | | LO01SCR1 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSEBU0241072020110 | 01 | | | | | | | ML01SCR1 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSEBU0442181010110 | 01 | | | | | | | SCR2LO01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSEBU0442181010110 | 01 | | | | | | | SCR2LD01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSEBU0442181010110 | 01 | | | | | | | LO01SCR2 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSEBU0442181010110 | 01 | | | | | | | LD01SCR2 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MAPP | TSEBU1141252020110 | 01 | | | | | | | SCR1ML01 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MAPP | TSEBU1141252020110 | 01 | | | | | | | ML01SCR1 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |

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NENG  TSEBU2841012020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     SCR1ML02     804.    5985.     85.0    13.16
 3.44    99.37    16.60    38.11    41.04    63.62   162.99    27.23
NENG  TSEBU2841012020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.335
Total Annual Costs
Year: 2010

| | | |

ECAO TSFBU0441142020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641041020110 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641041020110 01 LD01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | Total | | | Capital | | FOM | | | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | | MMUS$ | | mill/kWh | | | US$/kW/a | | US$/kW/a | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | | SCR1LO02 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | | SCR1LD02 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | | LO02SCR1 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | | LD02SCR1 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMI | TSGBU0441392020110 | 01 | | | | | | | | SCR1ML01 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMI | TSGBU0441392020110 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | | SCR2LO01 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | | SCR2ML01 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | | LO01SCR2 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | | ML01SCR2 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | | SCR1LO01 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | | SCR1ML02 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | | LO01SCR1 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | | ML02SCR1 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | | SCR1LO01 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | | SCR1ML01 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | | LO01SCR1 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSGBU1141272020210 | 01 | | | | | | | | SCR1ML01 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSGBU1141272020210 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | | SCR1LO01 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | | SCR1ML01 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | | LO01SCR1 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | | 0.00 | | 0.00 | | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

VACANCTSGBU0641101020110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01SCR2 0. 0. N/A 0.00
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VACANCTSGBU0641102020110 01 SCR1LO01 0. 0. N/A 0.00
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VACANCTSGBU0641102020110 01 LO01SCR1 0. 0. N/A 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 SCR1ML01 0. 0. N/A 0.00
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VACANCTSGBU0641102020210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 SCR2LO01 0. 0. N/A 0.00
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VACANCTSGBU0642101020110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SCR1LO01 0. 0. N/A 0.00
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VACANCTSGBU0642102020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.337
Total Annual Costs
Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | Total | | | Capital | | FOM | | | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | mill/kWh | |
| | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| TVA | TSGBU0642222020110 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSGSU0441201020210 | 01 | | | | | | | | SCR2LO01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSGSU0441201020210 | 01 | | | | | | | | SCR2ML01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSGSU0441201020210 | 01 | | | | | | | | LO01SCR2 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSGSU0441201020210 | 01 | | | | | | | | ML01SCR2 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441041020110 | 01 | | | | | | | | SCR2LO01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441041020110 | 01 | | | | | | | | SCR2LD01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441041020110 | 01 | | | | | | | | LO01SCR2 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441041020110 | 01 | | | | | | | | LD01SCR2 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441042020110 | 01 | | | | | | | | SCR1LO01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441042020110 | 01 | | | | | | | | SCR1ML02 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441042020110 | 01 | | | | | | | | LO01SCR1 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441042020110 | 01 | | | | | | | | ML02SCR1 | | | | | 2252. | 16767. | 85.0 | 9.04 | | | | | |
| 3.39 | | | 208.50 | | 12.43 | | 31.68 | | 37.70 | | 156.22 | | | | 364.72 | 21.75 | | | | | | | |
| ECAO | TSHBU0441182020110 | 01 | | | | | | | | SCR1LO01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441182020110 | 01 | | | | | | | | SCR1ML01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441182020110 | 01 | | | | | | | | LO01SCR1 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441182020110 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441042020310 | 01 | | | | | | | | SCR1LO01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441042020310 | 01 | | | | | | | | SCR1ML01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441042020310 | 01 | | | | | | | | LO01SCR1 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0441042020310 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0641041020110 | 01 | | | | | | | | SCR2LO01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0641041020110 | 01 | | | | | | | | SCR2ML01 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0641041020110 | 01 | | | | | | | | LO01SCR2 | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | 0.00 | 0.00 | 0.00 | | | | | | |

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ECAO  TSHBU0641041020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     SCR1LO01    1664.   12393.     85.0     9.44
 3.74   163.38    13.18    24.85    36.93   102.83   266.21    21.48
MACW  TSHBU0241412020110 01     SCR1LD02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LD02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.338
Total Annual Costs
Year: 2010

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ECAO  TSJBU0441202020410 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SCR2LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     LO01SCR2    1132.    8427.     85.0     8.50
 3.85   104.05    12.35    29.76    35.37    73.71   177.76    21.09
MANO  TSKBU0441181010110 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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MANO  TSXBU0441192020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.SCR+Scrb                   44           32717.  243622.     85.0    10.49
 3.62  3436.54    14.11    30.78    34.47  2134.84  5571.38    22.87

MACW  TCOLU0241412050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

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NWPE  TSASU0842322020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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SOU ALTSEBU0642232020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSGBU0441392020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     CO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSGBU1141272020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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WUMSWITSLBU1341392020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| VACAVATOLBU0332092020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | LO01SNR1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| VACAVATOLBU0332092020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | ML01SNR1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| SPPN | TOLBU1742282020110 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | SNR1LO01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| SPPN | TOLBU1742282020110 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | SNR1ML01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| SPPN | TOLBU1742282020110 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | LO01SNR1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| SPPN | TOLBU1742282020110 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | ML01SNR1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| ECAO | TSABU0441201020110 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | HNO1LO01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| ECAO | TSABU0441201020110 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | HNO1ML01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| ECAO | TSABU0441201020110 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | LO01HNO1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| ECAO | TSABU0441201020110 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | ML01HNO1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| ECAOOHTSABU0441051020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | HNO1LO01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| ECAOOHTSABU0441051020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | LO01HNO1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| MACWPATSABU0241032020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | SNR1LO01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| MACWPATSABU0241032020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | SNR1ML01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| MACWPATSABU0241032020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | LO01SNR1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| MACWPATSABU0241032020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | ML01SNR1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| MAPP | TSABU1141282010210 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | SNR1ML01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| MAPP | TSABU1141282010210 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | ML01SNR1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| DSNYNYTSABU0141012020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | SNR1ML01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| DSNYNYTSABU0141012020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | ML01SNR1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| DSNYNYTSABU0142012020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | SNR1ML01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| DSNYNYTSABU0142012020110 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | ML01SNR1 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| TVA | TSABU0641202020310 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | SNR1LO01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |
| TVA | TSABU0641202020310 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | SNR1ML01 | | | | | | 0. | | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | |

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TVA   TSABU0641202020310 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     HNC1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01HNC1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     HNC1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

| | | |

SPPNMOTSBSU0542282020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HNC1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HNC1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 LO01HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 ML01HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| | | |

ECAOOHTSEBU0442142020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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VACANCTSGBU0641102020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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MAPP  TSISU1142262020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HNO1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     LO01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACE CGCOU0141012050710 01 | SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CGCOU0141012050710 01 | LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CGCOU0141012050710 01 | ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0241412050710 01 | SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0241412050710 01 | SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0241412050710 01 | LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0241412050710 01 | ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 | SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 | SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 | LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 | ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 | SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 | SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 | LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 | ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.SNCR+Scrub | 45 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.Gas Reburn | 46 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ExistScrub+GasR | 47 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.GasReburn+Scrub | 48 | 0. | 0. | N/A | 0.00 | | | | | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431152020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431152020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431392020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431392020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0231082020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0241082050710 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431192020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431192020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431042050710 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431042050710 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631051020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631202020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631202020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAOVA | TCOLU0331062020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MACW | TCOLU0231031020310 | 01 | HG06 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MACW | TCOLU0231031020310 | 01 | HG02 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | | | | | | | | MMUS$ | | mill/kWh | US$/kW/a | US$/kW/a | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MACW | TCOLU0231032020110 | 01 | | | | | | | HG05 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MACW | TCOLU0231032020110 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MACW | TCOLU0231412050710 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MACW | TCOLU0231412050710 | 01 | | | | | | | HG11 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MACW | TCOLU0241412050710 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MACW | TCOLU0241412050710 | 01 | | | | | | | HG11 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| WUMS | TCOLU0411392020710 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| WUMS | TCOLU0411392020710 | 01 | | | | | | | HG11 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| WUMSWI | TCOLU1331392020110 | 01 | | | | | | | HG05 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| WUMSWI | TCOLU1331392020110 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| WUMSWI | TCOLU1331392020110 | 01 | | | | | | | HG11 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MANO | TCOLU0431192020110 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MANO | TCOLU0442192020110 | 01 | | | | | | | HG05 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MANO | TCOLU0442192020110 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MAPP | TCOLU0731311040110 | 01 | | | | | | | HG05 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MAPP | TCOLU0731311040110 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MAPP | TCOLU0731311040110 | 01 | | | | | | | HG11 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MAPP | TCOLU1131261040110 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MAPP | TCOLU1131261040110 | 01 | | | | | | | HG11 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MAPP | TCOLU1131262020110 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MAPP | TCOLU1131272020110 | 01 | | | | | | | HG05 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MAPP | TCOLU1131272020110 | 01 | | | | | | | HG01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MAPP | TCOLU1131272020110 | 01 | | | | | | | HG11 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |
| MAPP | TCOLU1131252020210 | 01 | | | | | | | HG05 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | |

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MAPP  TCOLU1131252020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131252020210 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131262020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131262020310 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TCOLU0131022020110 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TCOLU0131022020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTCOLU1531132020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTCOLU1531132020110 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631041050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631041050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631102050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLU0631102020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLU0631102020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLU0331092050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TCOLU1731281020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TCOLU1731282020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTCOLU3531292050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTCOLU3531292050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  TCOLU0832372050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  TCOLU0832372050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLU0831331020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLU0831331020310 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TCOLU0831332050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TCOLU0831332050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

| | | |

SPPNMOTOLBU0531281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSABU0641102020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSABU0641112020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641231020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641232020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841341020310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841342020310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0832332020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0841332020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0841352020310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSASU0441392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941291020310 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941292020310 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU2341292020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSASU0441202020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSASU1331162020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSASU1332162020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1041292020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1042292020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU1041292020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

SPPS TSASU3641282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2341292020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2342292020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PNW ORTSASU0842372020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0841342020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | |

SOU MSTSBBU1641242020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | |

SPPN TSCBU1732281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0832342020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSO0441182010102 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| MANOILTSDBU0441192020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1331392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1332392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSDSU1132252020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSDSU1132252020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSEBU0442142020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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ECAO TSFSU0441202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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ECAO TSHBU0641042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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ECAOINTSKBU0432182020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0632102020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0432152020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0231052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0232052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0432141020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0432141020210 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSLBU0531281020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSLBU0531281020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSXBU0441192020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBU0432191010210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0431192020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0432192010210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CGCOU0431392050710 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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CALI  CGCOU0832372050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSO1332392020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ACI                        49               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLS0231411020703 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0231411020703 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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FRCCFLTSGBS1531132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISS0541272020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841352020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | |

VACA TSXBS0641101020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841402020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020303 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841362020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2341302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302030303 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSLATSXLS1041302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSXLS2341302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS1941292020303 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.361
Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXTSXSS2341292020303 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSXSS3541292020103 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSXSS3642282020104 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0841351020303 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0841352020203 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0841352020303 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842351020203 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842351020703 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842352020203 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842352020703 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSXSS0832402020104 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSXSS0741322020703 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSXSS0742322020703 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSYBS0432192020204 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSYBS0432192020204 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSYBS0441192020103 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSYBS0441192020103 01 HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSYBS0441042020103 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSYBS0241412020103 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSYBS0241412020103 01 HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSYBS0441191010103 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSYBS0441191010103 01 HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSYBS1741281010703 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSYBS1741281010703 01 HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

SPPN TSYBS1741282020703 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1141262020304 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020203 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1741282020304 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1742282020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSZBS0431142010103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSZBS0431142010103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541121020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541122020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWYTSZLS0841322020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPAWYTSZLS0841322020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0841322020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0842322020104 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOS0331092050304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOS0331092050304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.362

Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP TSASS0732312020703 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASS0841342020303 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBS0441041020304 01 HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBS0441041020304 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSS0542282020103 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW WATSBSS0741372020103 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSDSS0541282020103 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSESS1741282020103 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ExistScrub&ACI 50 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTSABC2941011010101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABC0641232020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBC0641061020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441042020101 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441042020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBC0641101020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSEBC0641042020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSEBC0641042020101 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020201 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBC0441181010101 01 HG01 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020401 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBC0641112020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBC0641112020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBC0441041020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBC0441041020201 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBC0441041020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBC0441041020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSKBC0641232020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSKBC0641232020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBC0441181020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGNHTSLBN2932012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBN0641042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ExistSNCR&ACI              52               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.364
Total Annual Costs
Year: 2010

| | | |

MANOMOTSABU0541252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 SCR2HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU1041292020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPSTXTSASU2341292020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2342292020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 SCR2HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241042020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241042020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0641062020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSBBU0441182020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441041020110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441041020110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441042020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441042020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSBBU0441181010110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSBBU0441181010110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPPNETSBBU1441282010310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 SCR1HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 SCR1HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 SCR1HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 SCR2HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | |

WUMSWITSCSU1342162020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.367
Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TVA TSDBU0642222020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0241032020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBU0442181010110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBU0442181010110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBU1141252020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBU1141252020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020310 01 SCR1HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312010110 02 SCR2HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPPNDTSELU0742312020110 02 SCR1HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641041020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.368
Total Annual Costs
Year: 2010

| Unit Name | VOM | Total | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel | Variable Costs | Fixed Costs | Total Costs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mill/kWh | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | mill/kWh | mill/kWh | |
| ECAOOHTSGBU0441141010110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSGBU0241082020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSGBU1141272020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSGBU1141272020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020210 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642101020110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642102020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0642222020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0642222020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSGSU0441201020210 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441041020110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441041020110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441042020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441042020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441182020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAO TSHBU0441182020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | | Gener. | | C.F. | | Fuel | | | |
| VOM | | | | | Total | | | Capital | | FOM | | | | Total | | | | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | [MW] | | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | MMUS$ | | MMUS$ | | mill/kWh | | | | | |
| ECAO | TSJBU0441202020410 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSJBU0441202020410 | 01 | | | | | | | | SCR1HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSJBU0441252020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSJBU0441252020110 | 01 | | | | | | | | SCR1HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSJBU0441252020210 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPNMOT | SJBU0541281010110 | 01 | | | | | | | | SCR2HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPNMOT | SJBU0541281010110 | 01 | | | | | | | | SCR2HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSKBU0441042020110 | 01 | | | | | | | | SCR1HG05 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSKBU0441042020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSKBU0441042020110 | 01 | | | | | | | | SCR1HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSKBU0441181010110 | 01 | | | | | | | | SCR2HG05 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSKBU0441181010110 | 01 | | | | | | | | SCR2HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSKBU0441181010110 | 01 | | | | | | | | SCR2HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSKBU0441182020110 | 01 | | | | | | | | SCR1HG05 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSKBU0441182020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSKBU0441182020110 | 01 | | | | | | | | SCR1HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| VACANC | TSKBU0641102020210 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MAPP | TSKSU1141261010110 | 01 | | | | | | | | SCR2HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MECSMIT | SLBU0441152020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSLBU0241052020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| WUMSWIT | SLBU1341392020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| TVA | TSLSU0641222020110 | 01 | | | | | | | | SCR1HG11 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSXBU0641041020110 | 01 | | | | | | | | SCR2HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSXBU0441192020110 | 01 | | | | | | | | SCR1HG01 | | | | 0. | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |

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NWPE  TSXBU0841402020110 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ACI & SCR                   53               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

VACANCTCOLS0641102050304 01     SCR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SCR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TRRBS0832342030304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020304 01     SCR2HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841342020303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841342020304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABS0841352020104 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBS1142252020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSEBS1541132020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSEBS1541132020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISS1141262020703 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.370
Total Annual Costs
Year: 2010

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ECAO TSXBS0441142020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 SCR1HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 SCR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 SCR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.371
Total Annual Costs
Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | | |
| | | | | | | | | | | | | | | Total | Total | | | | | | | | |
| Unit | Name | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | | |
| NWPE | TSXBS0841332020103 | 01 | SCR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| NWPE | TSXBS0841402020103 | 01 | SCR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| NWPE | TSXBS0841332020303 | 01 | SCR1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| NWPE | TSXBS0841362020304 | 01 | SCR1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ERCTTX | TSXLS2341302020103 | 02 | SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ERCTTX | TSXLS2342302020103 | 02 | SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ERCTTX | TSXLS2342302030303 | 02 | SCR1HG10 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPPND | TSXLS0741311020103 | 02 | SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPPND | TSXLS0742311010103 | 02 | SCR2HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPPND | TSXLS0742312010304 | 02 | SCR2HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPPND | TSXLS0742312020304 | 02 | SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSLA | TSXLS1041302020103 | 02 | SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTX | TSXLS2341302020103 | 02 | SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ERCTTX | TSXSS1941292020303 | 01 | SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ERCTTX | TSXSS2341292020103 | 01 | SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ERCTTX | TSXSS2341292020303 | 01 | SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ERCTTX | TSXSS3541292020103 | 01 | SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPS | TSXSS3642282020104 | 01 | SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | TSXSS0841351020303 | 01 | SCR2HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | TSXSS0841352020203 | 01 | SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | TSXSS0841352020303 | 01 | SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | TSXSS0842351020203 | 01 | SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | TSXSS0842351020703 | 01 | SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | TSXSS0842352020203 | 01 | SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |

AZNM TSXSS0842352020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0741322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSYBS0441042020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1141262020304 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020203 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1741282020304 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1742282020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541121020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541122020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWYTSZLS0841322020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPAWYTSZLS0841322020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0841322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0842322020104 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RMPA TSASS0841342020303 01 SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBS0441041020304 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBS0441041020304 01 SCR2HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSS0542282020103 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW WATSBSS0741372020103 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSDSS0541282020103 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSESS1741282020103 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ExistScrub&ACI&SCR 54 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TCOLU0431152020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TCOLU0431152020110 01 SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TCOLU0431392020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TCOLU0431392020110 01 SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0231082020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431041020110 01 HNO1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431041020110 01 HNO1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431041020110 01 HNO1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431141020110 01 HNO1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431141020110 01 HNO1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431141020110 01 HNO1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431142020110 01 SNR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431142020110 01 SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431142020110 01 SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLU0431182020110 01 SNR1HG05 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431182020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431182020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431192020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431042050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431042050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631051020110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631202020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631202020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOVATCOLU0331062020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     HNO1HG06       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     HNO1HG02       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | mil | | |
| l/kWh | | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MAPP | TCOLU1131261040110 | | | | | | | | | | | | | HNO1HG11 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPP | TCOLU1131262020110 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPP | TCOLU1131272020110 | | | | | | | | | | | | | SNR1HG05 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPP | TCOLU1131272020110 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPP | TCOLU1131272020110 | | | | | | | | | | | | | SNR1HG11 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPP | TCOLU1131252020210 | | | | | | | | | | | | | SNR1HG05 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPP | TCOLU1131252020210 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPP | TCOLU1131252020210 | | | | | | | | | | | | | SNR1HG11 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPP | TCOLU1131262020310 | | | | | | | | | | | | | SNR1HG02 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPP | TCOLU1131262020310 | | | | | | | | | | | | | SNR1HG12 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| UPNY | TCOLU0131022020110 | | | | | | | | | | | | | SNR1HG05 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| UPNY | TCOLU0131022020110 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| FRCCFL | TCOLU1531132020110 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| FRCCFL | TCOLU1531132020110 | | | | | | | | | | | | | SNR1HG11 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| VACA | TCOLU0631041050710 | | | | | | | | | | | | | HNO1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| VACA | TCOLU0631041050710 | | | | | | | | | | | | | HNO1HG11 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| VACA | TCOLU0631102050710 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| VACANCT | COLU0631102020110 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| VACANCT | COLU0631102020210 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| VACAVAT | COLU0331092050710 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| SPPN | TCOLU1731281020310 | | | | | | | | | | | | | HNO1HG02 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| SPPN | TCOLU1731282020110 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| SPPSTX | TCOLU3531292050710 | | | | | | | | | | | | | SNR1HG01 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| SPPSTX | TCOLU3531292050710 | | | | | | | | | | | | | SNR1HG11 | | 0. | 0. | | N/A | | 0.00 | | |
| 0.00 | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |

CALI TCOLU0832372050710 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0832372050710 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 HNO1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 HNO1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0631191040110 01 HNO1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0631191040110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632051020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632052020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632192020210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632192020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOMDTOLBU0231082020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0432142020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0432142020710 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0231032020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0232032050110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 HNC1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 HNC1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632101020210 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632102020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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RMPA TSABU0841341020310 01 HNO1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 SNR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 HNC1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 HNC1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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MAPP  TSCBU1131252020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0631102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1731282010310 01     HNC1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     HNC1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     HNC1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0832342020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     HNC1HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     HNC1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| VOM | | | | | | | | | | | | Total | | Capital | | FOM | Total | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | mill/kWh | | |
| | | | | | | | | | | | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | |
| MECS | TSEBU0441392020110 | 01 | | | | | | | | | | SNR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSEBU0441142020110 | 01 | | | | | | | | | | | SNR1HG05 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSEBU0441142020110 | 01 | | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSEBU0442142020110 | 01 | | | | | | | | | | | SNR1HG05 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSEBU0442142020110 | 01 | | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACWPATSEBU0232032020110 | 01 | | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACWPATSEBU0241032020110 | 01 | | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACS | TSEBU0241072020110 | 01 | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| VACASCTSEBU0641102020110 | 01 | | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| VACASCTSEBU0641102020310 | 01 | | | | | | | | | | | SNR1HG02 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SOU ALTSEBU0632232020110 | 01 | | | | | | | | | | | SNR1HG05 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SOU ALTSEBU0632232020110 | 01 | | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SOU ALTSEBU0642232020110 | 01 | | | | | | | | | | | SNR1HG05 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SOU ALTSEBU0642232020110 | 01 | | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MAPPNDTSELU0742312020110 | 02 | | | | | | | | | | | SNR1HG09 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSESU0441172020110 | 01 | | | | | | | | | | SNR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MANO | TSESU0441172020310 | 01 | | | | | | | | | | SNR1HG12 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSFBU0431142020210 | 01 | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSFBU0431142020210 | 01 | | | | | | | | | | SNR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSFBU0432142020110 | 01 | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSFBU0432142020110 | 01 | | | | | | | | | | SNR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSFBU0432142020210 | 01 | | | | | | | | | | SNR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSFBU0432142020210 | 01 | | | | | | | | | | SNR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| UPNY | TSFBU0131022020210 | 01 | | | | | | | | | | SNR1HG05 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |

UPNY TSFBU0131022020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 SNR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 SNR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 SNR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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VACA  TSHBU0641102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBU0632222020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBU0632222020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSHSU0432392020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0432392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0432392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1132262020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1132262020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG06       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0432392020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0432392020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0432252020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0432252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSKBU0432182020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSKBU0432182020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0632102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0432152020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.378
Total Annual Costs
Year: 2010

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MACW  CGCOU0232412050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0232412050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOU0131022050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CGCOU0931012050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  CGCOU0631102050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOU0631102050310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOU0631102050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0331092050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0831372050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0831372050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0832372050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0832372050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     HNO1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ACI & SNCR                 55               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLS0231411020703 01     HNO1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0231411020703 01     HNO1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     SNR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     SNR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.379
Total Annual Costs
Year: 2010

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WUMSWITSGBS1231392020104 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 HNO1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 HNO1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 HNO1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 SNR1HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 SNR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.380
Total Annual Costs
Year: 2010

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VACAVACGCOS0331092050304 01     SNR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSASS0732312020703 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASS0841342020303 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     HNO1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     HNO1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ExistScrub&ACI&SNCR       56               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLU0241082050710 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| | | | | | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MAPP | TOLBU1141252020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TOLBU1141252020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOL | SU0542281010110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOL | SU0542281010110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOL | SU0542281010110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOL | SU0542281010110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSABU0441391020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSABU0441391020110 | 01 | LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSABU0441391020110 | 01 | LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSABU0441391020110 | 01 | LD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SABU0441051010110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SABU0441051020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ERCTTXTSABU2341292020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 LO01HG03 0. 0. N/A 0.00
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MANO TSABU0441182020110 01 LD01HG05 0. 0. N/A 0.00
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MANO TSABU0441182020110 01 LD01HG01 0. 0. N/A 0.00
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MANO TSABU0441182020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02HG11 0. 0. N/A 0.00
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DSNYNYTSABU0141012020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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NWPE TSABU0841332020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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SPPSTXTSASU3541292020310 01     ML02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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TVA   TSBBU0641212020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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MANO TSBSU0441172020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBU0441041020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBU0441041020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.386
Total Annual Costs
Year: 2010

| Unit | Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACW | TSCBU0242032020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | TSCBU0242032020110 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | TSCBU0242032020110 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | TSCBU0242032020110 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | TSCBU0141022020210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | TSCBU0141022020210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | TSCBU0141022020210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | TSCBU0141022020210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | TSCBU0641102020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | TSCBU0641102020110 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | TSCBU0641102020110 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | TSCBU0641102020110 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | TSCBU0641212020210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | TSCBU0641212020210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | TSCBU0641212020210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | TSCBU0641212020210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSCBU0641232020210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSCBU0641232020210 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSCBU0641232020210 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSCBU0641232020210 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSCBU0841342020310 01 ML01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSCBU0841342020310 01 ML01HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSCBU0841342020310 01 ML01HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWI | TSCSU1242162020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

WUMSWITSCSU1242162020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 LO01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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MECS  TSDBU0441392020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSDBU0241081020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FRCCFLTSDBU1541132020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

WUMSWITSDSU1342392010210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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```
MANO  TSESU0441172020310 01     ML01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641202020210 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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MECSMITSGBU0441392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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ECAO TSHBU0441041020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG11 0. 0. N/A 0.00
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ECAO TSHBU0642181020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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MECS TSIBU0442392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG11 0. 0. N/A 0.00
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MAPPWITSISU1341392020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LO01HG03 0. 0. N/A 0.00
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ECAO TSJBU0441051020110 01 LD01HG05 0. 0. N/A 0.00
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ECAO TSJBU0441051020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.393
Total Annual Costs
Year: 2010

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPNMOTSJBU0541281010110 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSJBU0541281010110 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSJBU0541281010110 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSJBU0541281010110 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSKBU0441042020110 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSKBU0441042020110 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSKBU0441042020110 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSKBU0441042020110 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441181010110 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441181010110 01 | LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441181010110 01 | LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441181010110 01 | LD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441182020110 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441182020110 01 | LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441182020110 01 | LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSKBU0441182020110 01 | LD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0641102020210 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0641102020210 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0641102020210 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0641102020210 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSKSU1141261010110 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSKSU1141261010110 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSKSU1141261010110 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSLBU0441152020110 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAO TSLBU0241052020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRCCFLCGCOU1541132050710 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGCOU1541132050710 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGCOU1541132050710 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGCOU1541132050710 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBU0541272020110 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBU0541272020110 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBU0541272020110 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ACI & Srub 57 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTSABC2941011010101 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABC0641232020101 01 LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBC0641061020101 01 LO01HG03 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LO02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LO02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.395
Total Annual Costs
Year: 2010

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SOU TSHBC0641112020101 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBC0441041020201 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBC0441041020201 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.396
Total Annual Costs
Year: 2010

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ECAO  TSGSC0441201020101 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistSCR&ACI&Scrub         58               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MACEDETSABN0241032020102 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACENJTSBBN0141031010102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEDETSCBN0241032020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBN0441042020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBN0441042020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSDBN0441042020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBN0641042020102 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBN0441142020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBN0441142020102 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capital Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh
MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
ECAOOHTSGBN0441142020102 01 LD01HG05 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSHBO0241081010302 01 ML01HG08 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBO0632102020202 01 LO01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBO0632102020202 01 ML01HG07 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBO0632102020202 01 ML01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBO0632102020202 01 ML01HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441041020102 01 LO01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441041020102 01 LD01HG01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441041020102 01 LD01HG05 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441041020102 01 LD01HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020102 01 LO01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020102 01 LD01HG01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020102 01 LD01HG05 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020102 01 LD01HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020302 01 LO01HG04 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020302 01 ML01HG04 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020302 01 ML01HG08 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBN0441042020302 01 ML01HG12 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret.ExistSNCR&ACI&Scrub 59 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

ECAO TSXBD0241041020207 01 HG07 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBD0241041020207 01 HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSXBD0141031010107 01 HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSXBD0141031010107 01 HG07 0. 0. N/A 0.00
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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSXBD0341092020307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSXBD0341092020307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOD0231412050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOD0231412050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistSNCR&ExistScrub&ACI  60               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TSYBA0441192020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBA0441192020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSYBA0441041020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSYBA0141022020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSYBA0141022020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSYBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020205 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

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VACAWVTSABA0641052020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAWVTSABA0641052020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBA0641051020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBA0641051020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBA1541122020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSZBA0641052020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSZBA0641052020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLA0241052050705 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLA0241052050705 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTCOLA0541252020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTCOLA0541252020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLA0831402020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSFBA0241412020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSFBA0241412020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSCSA0541282020306 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441181020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ExistSCR&ExistScrub&ACI   61             600.    4468.     85.0    13.14
 4.17    77.34    17.31     4.08    48.30    31.43   108.77    24.34

ECAO  TSXBE0232041020207 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TOLBU1141252020110 01     RL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTSABU0441051010110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTSABU0441051020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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SOU TSABU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 SD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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SPPS  TSASU1041292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RO01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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ECAOOHTSBBU0441041020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.404
Total Annual Costs
Year: 2010

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MAPPSDTSBLU0742261010110 02     SL02HG09       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPNMOTSBSU0542282020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 SD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 SD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RO01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RL02HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RL02HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RL02HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

VACA TSCBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RL01HG03 0. 0. N/A 0.00
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TVA TSCBU0641212020210 01 RL01HG07 0. 0. N/A 0.00
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TVA TSCBU0641212020210 01 RL01HG11 0. 0. N/A 0.00
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SOU TSCBU0641232020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG11 0. 0. N/A 0.00
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RMPA TSCBU0841342020310 01 RL01HG04 0. 0. N/A 0.00
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RMPA TSCBU0841342020310 01 RL01HG08 0. 0. N/A 0.00
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WUMSWITSCSU1242162020110 01 RD01HG05 0. 0. N/A 0.00
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WUMSWITSCSU1341161010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG11 0. 0. N/A 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02HG07 0. 0. N/A 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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MAPP TSCSU1141251020210 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SD01HG01 0. 0. N/A 0.00
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ECAOWVTSDBU0641051010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| | | | | | | | | | | | | | | | | Total | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | |
| | | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | |
| WUMSWITSDBU1241162020110 | 01 | RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWITSDBU1241162020110 | 01 | RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWITSDBU1241162020110 | 01 | RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWITSDBU1241162020110 | 01 | RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOILTSDBU0441191020110 | 01 | SL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOILTSDBU0441191020110 | 01 | SL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOILTSDBU0441192020110 | 01 | RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOILTSDBU0441192020110 | 01 | RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOMOTSDBU0541252020110 | 01 | RD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOMOTSDBU0541252020110 | 01 | RD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOMOTSDBU0541252020110 | 01 | RD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOMOTSDBU0541252020110 | 01 | RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541131020110 | 01 | SD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541131020110 | 01 | SD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541131020110 | 01 | SD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541131020110 | 01 | SO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541132020110 | 01 | RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541132020110 | 01 | RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541132020110 | 01 | RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541132020110 | 01 | RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541132020210 | 01 | RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541132020210 | 01 | RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541132020210 | 01 | RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFLTSDBU1541132020210 | 01 | RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

VACANCTSDBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| | | |

MAPPNDTSELU0742312020110 02 RL01HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RO01HG03 0. 0. N/A 0.00
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MANO TSESU0441172010110 01 RL02HG03 0. 0. N/A 0.00
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MANO TSESU0441172010110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | |

SOU TSFBU0641112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RO02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.410
Total Annual Costs
Year: 2010

| Unit | Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UPNY | TSGBU0141022020210 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | TSGBU0141022020210 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | TSGBU0141022020210 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641101020110 01 SO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641101020110 01 SL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641101020110 01 SL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641101020110 01 SL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641101020210 01 SO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641101020210 01 SL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641101020210 01 SL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641101020210 01 SL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641102020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641102020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641102020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641102020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641102020210 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641102020210 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641102020210 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0641102020210 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0642101020110 01 SO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0642101020110 01 SL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0642101020110 01 SL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0642101020110 01 SL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSGBU0642102020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

VACANCTSGBU0642102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG11 0. 0. N/A 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG03 0. 0. N/A 0.00
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TVA TSGBU0642222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG11 0. 0. N/A 0.00
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ECAO TSGSU0441201020210 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG11 0. 0. N/A 0.00
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ECAO TSHBU0441182020110 01 RO01HG03 0. 0. N/A 0.00
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ECAO TSHBU0441182020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

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MANOILTSHBU0441192020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG11 0. 0. N/A 0.00
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ENTGMOTSISU0541271010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

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MANO TSKBU0441181010110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.413
Total Annual Costs
Year: 2010

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SPPNMOTSUBU0541272020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.SCR & Scrub & ACI         63               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MACW  TCOLU0241412050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSABU0441051020110 01     HO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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NWPE TSASU0842322020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HL01HG11 0. 0. N/A 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HL01HG07 0. 0. N/A 0.00
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ECAOOHTSBBU0441041020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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MAPPNETSBBU1442282010310 01 CL01HG08 0. 0. N/A 0.00
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MAPPNETSBBU1442282010310 01 CL01HG12 0. 0. N/A 0.00
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SOU TSBBU0641112020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NL01HG11 0. 0. N/A 0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.415
Total Annual Costs
Year: 2010

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TVA   TSCBU0641212020210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | Variable Costs | | |
| | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| | | | | | | | | | | | | | | | | Total | Total | | | | | | |
| | | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | | | | |
| | | | | | | | | | | | | | | | | MMUS$ | MMUS$ | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MECS | TSEBU0441392020110 | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MECS | TSEBU0441392020110 | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MECS | TSEBU0441392020110 | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MECS | TSEBU0441392020110 | 01 | NL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAOOHTSEBU0441142020110 | | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAOOHTSEBU0441142020110 | | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAOOHTSEBU0441142020110 | | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAOOHTSEBU0442142020110 | | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAOOHTSEBU0442142020110 | | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAOOHTSEBU0442142020110 | | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MACWPATSEBU0241032020110 | | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MACS | TSEBU0241072020110 | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MACS | TSEBU0241072020110 | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MACS | TSEBU0241072020110 | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MACS | TSEBU0241072020110 | 01 | NL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| VACASCTSEBU0641102020110 | | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| VACASCTSEBU0641102020310 | | 01 | NL01HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SOU ALTSEBU0642232020110 | | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SOU ALTSEBU0642232020110 | | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SOU ALTSEBU0642232020110 | | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPPNDTSELU0742312020110 | | 02 | NL01HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSESU0441172020110 | 01 | NO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSESU0441172020110 | 01 | NL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSESU0441172020110 | 01 | NL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |

ECAO TSESU0441172020110 01 NL01HG11 0. 0. N/A 0.00
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MANO TSESU0441172020310 01 NL01HG08 0. 0. N/A 0.00
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MANO TSESU0441172020310 01 NL01HG12 0. 0. N/A 0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.417
Total Annual Costs
Year: 2010

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ECAO TSHBU0641041020110 01 HL01HG07 0. 0. N/A 0.00
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ECAO TSHBU0641041020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

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ECAO  TSXBU0641041020110 01     HL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.SNCR & Scrub & ACI        64               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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NENG STGAU0111 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0911 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0921 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTGAU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTGAU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTGAU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA STGAU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STGAU0611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STGAU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTGAU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STGAU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STGAU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTGAU1611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STGAU1711 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STGAU1721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTGAU0511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTGAU0521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSMSSTGAU1611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2211 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU3511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0811 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0811 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.420
Total Annual Costs
Year: 2010

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NENG STHSU2821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STHSU2822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHSTHSU2922 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1522 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTHSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU2721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU3421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1711 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1712 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 SCO1 0. 0. N/A 0.00
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ECAO STLSU0222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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MAPPNESTLSU1412 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNESTLSU1421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNESTLSU1422 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC STLSU0122 000000 00 SCO1 0. 0. N/A 0.00
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LILC STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
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NENG STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
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NENG STLSU0922 000000 00 SCO1 0. 0. N/A 0.00
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NENG STLSU2821 000000 00 SCO1 0. 0. N/A 0.00
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NENGCTSTLSU3222 000000 00 SCO1 0. 0. N/A 0.00
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FRCCFLSTLSU1511 000000 00 SCO1 0. 0. N/A 0.00
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FRCCFLSTLSU1512 000000 00 SCO1 0. 0. N/A 0.00
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FRCCFLSTLSU1521 000000 00 SCO1 0. 0. N/A 0.00
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FRCCFLSTLSU1522 000000 00 SCO1 0. 0. N/A 0.00
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VACAVASTLSU0321 000000 00 SCO1 0. 0. N/A 0.00
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VACAVASTLSU0322 000000 00 SCO1 0. 0. N/A 0.00
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SOU MSSTLSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTLSU1622 000000 00 SCO1 0. 0. N/A 0.00
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ENTG STLSU1021 000000 00 SCO1 0. 0. N/A 0.00
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ENTG STLSU1022 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTLSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTLSU1622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTLSU1821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTLSU0512 000000 00 SCO1 0. 0. N/A 0.00
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SPPNMOSTLSU0521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

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FRCCFLCGGAU1511   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   CGGAU0611   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  CGGAU1011   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.O/G SCR                   65              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2711   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0111   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0121   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  STGAU0412   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1311   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOSTGAU0511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.423
Total Annual Costs
Year: 2010

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SPPN  STGAU1721   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTGAU0511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTGAU0521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3611   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTGAU1611   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU3511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAU0811   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  STGAU0811   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  STGAU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0811   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  STGAU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0422   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU1821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2021   000000 00     SCN1         185.     195.     12.0    29.73
 3.02     6.40    32.75     0.72    20.70     3.97    10.36    53.07
ERCTTXSTHSU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2421   000000 00     SCN1         795.    2523.     36.2    28.84
 3.02    80.38    31.86     0.84    20.30    16.81    97.18    38.52
ERCTTXSTHSU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0112   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0121   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.424
Total Annual Costs
Year: 2010

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SPPN STHSU1721 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2212 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2221 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2222 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2321 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2322 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2422 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2511 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2512 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2522 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3522 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0121 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0122 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0221 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.425
Total Annual Costs
Year: 2010

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FRCCFLSTLSU1521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLSTLSU1522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0322   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1022   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0512   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1012   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1022   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3612   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTLSU1612   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2222   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU3522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   STLSU0721   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

| Unit Name | | | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AZNM STLSU0812 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM STLSU0821 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM STLSU0822 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNMTXSTLSU2621 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE STLSU0821 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE STLSU0822 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGGAU1811 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CGGAU0221 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO CGGAU0411 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGGAU1511 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CGGAU0611 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CGGAU1011 | 000000 00 | SCN1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.O/G SNCR | | | 66 | 980. | 2718. | 31.7 | 28.90 | 3.02 | 86.77 | 31.92 | 0.82 | 20.38 | 20.77 | 107.55 | 39.57 |
| Ret.Nuclear (age 30+10 yrs) | | | 67 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.Nuclear (age 40+20 yrs) | | | 68 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret. Biomass Cofiring | | | 69 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CT 0411 | 000000 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CT 0412 | 000000 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MECS  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0213   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0412   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0423   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0612   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0614   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0622   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0623   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0624   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVACT   0322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1814   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1922   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1923   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1924   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2312   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.427
Total Annual Costs
Year: 2010

| Unit Name | VOM MMUS$ | Total mill/kWh | Capital US$/kW/a | FOM US$/kW/a | Fixed Costs Capacity Total [MW] MMUS$ | Total Costs Gener. Total [GWh] MMUS$ | C.F. [%] mill/kWh | Variable Costs Fuel mill/kWh | VOM mill/kWh |
|---|---|---|---|---|---|---|---|---|---|
| ERCTTXCT 2322 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ERCTTXCT 2323 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ERCTTXCT 2414 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ERCTTXCT 2512 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ERCTTXCT 2514 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ERCTTXCT 2722 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ERCTTXCT 3514 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ERCTTXCT 3522 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ERCTTXCT 3523 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ERCTTXCT 3524 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CT 0113 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CT 0114 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CT 0122 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CT 0123 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CT 0124 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CT 0212 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CT 0213 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CT 0214 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CT 0222 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CT 0223 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACEVACT 0312 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACEVACT 0314 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACEVACT 0323 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACW CT 0213 000000 00 | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |

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MACW  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0211   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0212   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSVACT   0322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1312   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1323   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1324   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0411   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0412   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0512   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0513   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0514   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0522   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.428
Total Annual Costs
Year: 2010

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MAPPWICT   1313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1323   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0113   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0123   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0113   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0123   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0912   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0914   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0923   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   2814   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3212   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3213   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.429
Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NENGCTCT 3222 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCT 3223 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCT 3224 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHCT 2914 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHCT 3014 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1512 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1513 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1514 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1522 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1524 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0612 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0613 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0614 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0622 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0623 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0624 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0611 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0613 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0614 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0622 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0623 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0624 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT 0312 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACAVACT | 0313 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0314 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0322 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0324 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0612 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0623 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1612 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0611 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0613 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0623 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0624 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1613 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1624 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1012 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1014 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1022 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1023 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCT | 0513 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCT | 0522 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT | 1711 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT | 1712 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPSMSCT | 1614 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2214 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2322 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2512 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2513 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2514 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2524 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2722 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 3513 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 3514 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0812 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0813 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0814 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0821 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0823 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0824 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0714 | 000000 | 00 | RET1 | | 30. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0722 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0724 | 000000 | 00 | RET1 | | 28. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0812 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0814 | 000000 | 00 | RET1 | | 6. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0813 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0814 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0823 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0824 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNMTXCT | 3523 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT | 0713 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT | 0714 | 000000 | 00 | RET1 | | 10. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.431
Total Annual Costs
Year: 2010

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ERCTTXCGCT 2711 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0111 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0122 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0222 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCT 0212 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCT 0222 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCT 0412 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCT 1112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCT 0122 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCT 0111 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCT 0912 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCT 0922 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCT 3112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHCGCT 3012 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCT 1512 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCT 1522 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCT 0612 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCT 0311 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCT 0312 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA CGCT 0622 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCT 0612 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSCGCT 1622 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG CGCT 1012 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG CGCT 1022 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXCGCT 2712 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXCGCT 2722 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN CGCT 1712 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.432
Total Annual Costs
Year: 2010

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2322   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2513   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2514   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2523   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2524   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2722   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   3522   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   3523   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0224   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACS  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWICC   1322   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  CC   0413   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  CC   0422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANOMOCC   0522   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   0422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1113   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1124   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPNECC   1422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
DSNY  CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
DSNY  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NYC   CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NYC   CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
LILC  CC   0113   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
```

Total Annual Costs
Year: 2010

| | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOU | CC | 0622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU FLCC | | 1522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCC | | 1622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | CC | 1022 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | CC | 1023 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCC | | 1622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCC | | 0522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCC | | 2322 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCC | | 0522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 1022 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3613 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3623 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3624 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSMSCC | | 1613 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 2322 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 2722 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 3522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0812 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0813 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0823 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0824 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0722 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0723 | 000000 | 00 | RET2 | 170. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0823 | 000000 | 00 | RET2 | 493. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0812 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0813 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0823 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.434
Total Annual Costs
Year: 2010

| | | |

MACE CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0121 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0221 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0222 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCC 0213 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCC 0223 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS CGCC 0223 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0412 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0413 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0422 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FRCCFLCGCC 1513 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGCC 1522 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCGCC 1523 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CGCC 0622 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CGCC 0623 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCGCC 0623 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCC 0322 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCC 0323 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CGCC 0622 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CGCC 0612 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CGCC 0622 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU FLCGCC 1522 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CGCC 1012 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CGCC 1013 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CGCC 1022 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCGCC 1912 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCGCC 1921 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCGCC 1922 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCGCC 2712 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCGCC 2722 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCC 1022 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCC 3622 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCC 3623 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CGCC 0811 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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CALI  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0813   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0823   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0722   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0723   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0813   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0823   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0813   000000 00     RET2          60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0823   000000 00     RET2         383.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCC 0811   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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CC Early Retirement           71            1213.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.436
Total Annual Costs
Year: 2010

| Unit Name | VOM | Total | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel | Variable Costs | Fixed Costs | Total Costs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | mill/kWh | mill/kWh | | |
| ERCTTXSTGAU2221 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2511 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2521 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2711 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0111 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0121 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0211 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0221 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS STGAU0412 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWISTGAU1311 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWISTGAU1321 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO STGAU0411 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO STGAU0421 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOSTGAU0511 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STGAU1111 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STGAU1112 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STGAU1121 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOSTGAU0511 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNESTGAU1411 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWISTGAU1311 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY STGAU0121 | 000000 | 00 | RET3 | | 782. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC STGAU0121 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC STGAU0121 | 000000 | 00 | RET3 | | 85. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG STGAU0111 | 000000 | 00 | RET3 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENG | STGAU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0911 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0921 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STGAU3221 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STGAU1511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STGAU1521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | STGAU0621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STGAU0611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STGAU0621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STGAU1621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STGAU1011 | 000000 | 00 | RET3 | 86. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STGAU1021 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STGAU1611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STGAU1711 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STGAU1721 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STGAU0511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STGAU0521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU1011 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU1021 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU3611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU3621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSMS | STGAU1611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2211 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU3511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | STGAU0811 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | STGAU0821 | 000000 | 00 | RET3 | 897. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | STGAU0811 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | STGAU0821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | STGAU0811 | 000000 | 00 | RET3 | 75. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | Total | | | | Capital | | FOM | | | Total | | | | Total | | | | | | | |
| Unit | Name | | | | | | | | | | | [MW] | | | | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | MMUS$ | | | | MMUS$ | | mill/kWh | | | | | |
| RMPA | STGAU0821 | 000000 | 00 | | RET3 | | | | | | | 56. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| NWPE | STGAU0822 | 000000 | 00 | | RET3 | | | | | | | 75. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MECS | STHSU0411 | 000000 | 00 | | RET3 | | | | | | | 18. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MECS | STHSU0421 | 000000 | 00 | | RET3 | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MECS | STHSU0422 | 000000 | 00 | | RET3 | | | | | | | 1386. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ERCTTX | STHSU1821 | 000000 | 00 | | RET3 | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ERCTTX | STHSU2021 | 000000 | 00 | | RET3 | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ERCTTX | STHSU2221 | 000000 | 00 | | RET3 | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ERCTTX | STHSU2321 | 000000 | 00 | | RET3 | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ERCTTX | STHSU2421 | 000000 | 00 | | RET3 | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ERCTTX | STHSU2521 | 000000 | 00 | | RET3 | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACE | STHSU0112 | 000000 | 00 | | RET3 | | | | | | | 17. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACE | STHSU0121 | 000000 | 00 | | RET3 | | | | | | | 86. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACE | STHSU0211 | 000000 | 00 | | RET3 | | | | | | | 34. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACE | STHSU0221 | 000000 | 00 | | RET3 | | | | | | | 435. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACE | STHSU0222 | 000000 | 00 | | RET3 | | | | | | | 102. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACW | STHSU0221 | 000000 | 00 | | RET3 | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACS | STHSU0222 | 000000 | 00 | | RET3 | | | | | | | 0. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| DSNY | STHSU0121 | 000000 | 00 | | RET3 | | | | | | | 385. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| LILC | STHSU0121 | 000000 | 00 | | RET3 | | | | | | | 891. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| NENG | STHSU0122 | 000000 | 00 | | RET3 | | | | | | | 26. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| NENG | STHSU0921 | 000000 | 00 | | RET3 | | | | | | | 116. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| NENG | STHSU0922 | 000000 | 00 | | RET3 | | | | | | | 107. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| NENG | STHSU2821 | 000000 | 00 | | RET3 | | | | | | | 875. | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |

NENG STHSU2822 000000 00 RET3 569. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3221 000000 00 RET3 567. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3222 000000 00 RET3 400. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHSTHSU2922 000000 00 RET3 406. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1511 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1521 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1522 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0621 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0622 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTHSU1621 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU2721 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU3421 000000 00 RET3 1410. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1711 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1712 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1721 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 RET3 467. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 RET3 105. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 RET3 23. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 RET3 68. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSN0121 000000 00 RET3 155. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSN3221 000000 00 RET3 566. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | STLSU1112 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1412 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1421 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1422 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC | STLSU0122 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU0922 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU2821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STLSU3221 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STLSU3222 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1512 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1522 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | STLSU0321 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | STLSU0322 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STLSU1621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STLSU1622 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STLSU1021 | 000000 | 00 | RET3 | 3240. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STLSU1022 | 000000 | 00 | RET3 | 3933. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STLSU1621 | 000000 | 00 | RET3 | 1552. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STLSU1622 | 000000 | 00 | RET3 | 356. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTX | STLSU1821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STLSU0512 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STLSU0521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STLSU0821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STLSU0822 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.439
Total Annual Costs
Year: 2010

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CALI  STLSC0821   000000 00     RET3        4724.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0812   000000 00     RET3          13.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0821   000000 00     RET3        1433.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0822   000000 00     RET3         814.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCGGAU1811   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGGAU0221   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CGGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGGAU1511   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   CGGAU0611   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  CGGAU1011   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CGHSC2821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGLSN0821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSC1821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSC1921   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STHSC0821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STHSC0822   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO2521   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO3521   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2021   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2022   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STLSO0922   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STGAO0111   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAC0821   000000 00     RET3          86.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STHSD2821   000000 00     RET3         378.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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O/G Early Retirement          72          29276.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  TCOLU0411392050710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431152020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0211412050710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

| | | |

MANO TCOLU0442192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTCOLU0511282050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU0711312050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU0731311040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111261040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111271040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111261040310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111252020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111262050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131261040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131272020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131262020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311161010710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311162020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311162040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0131022020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TCOLU0911012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTCOLU1531132020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631041050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATCOLU0331092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731281020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| Unit Name | | VOM | Total | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel | Variable Costs | Fixed Costs | Total Costs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | mill/kWh | mill/kWh | | |
| SPPNMOTCOLU0511252050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTCOLU0511272050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTCOLU3531292050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI TCOLU0811372050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI TCOLU0832372050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811351020710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811402050110 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811342050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811352050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0831331020310 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TCOLU0811332050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TCOLU0831332050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TCOLN0131022020102 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTCOLN2931012020102 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLS0231411020703 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLS0611182020703 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLS0631041050303 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLS0231412050304 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITCOLS1231391020104 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TCOLS1111252020203 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTCOLS0641102050304 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATCOLS0331092050304 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW TABU 0711371030710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TABS 0631042050304 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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TVA   TSWBS0642202030303 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     RET4          93.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411181020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411182020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0611191020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     RET4         146.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     RET4          64.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOMDTOLBU0231082020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020110 01     RET4         196.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01     RET4          62.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01     RET4         126.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0232032050110 01     RET4          48.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1312162020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBU0432192010210 01     RET4         108.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTOLBU0532281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOTOLBU0512282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOTOLBU0532281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBU0632101020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBU0632102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1732282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| | | | | | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| SPPN | TOLBU1742282020110 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPNMOTOLBU0511281020110 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPNMOTOLBU0531281010110 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPNMOTOLBU0531281020110 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPNMOTOLBU0531282020110 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPNMOTOLBU0532281010110 | | 01 | RET4 | 53. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTOLBS0432142020304 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| WUMSWITOLBS1312162030304 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TOLBS0432191010103 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TOLBS0432192010203 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPNMOTOLSU0542281010110 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TOLSU0812321020110 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TRRBU0432042020110 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TRRBS0832342030304 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | TSABU0441391020110 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSABU0441201020110 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTSABU0441051010110 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOHTSABU0441051020110 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ERCTTXTSABU2341292020210 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACWPATSABU0241032020110 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TSABU0441182020110 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOMOTSABU0541252020110 | | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANOMOTSABU0542252020110 | | 01 | RET4 | 877. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TSABU1141282020110 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

MAPP TSABU1141282010210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSABC2941011010101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABC0641232020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSABN0241032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABS0241032020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABS0841352020104 01 RET4 200. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| Unit Name | VOM | Total | Capital | FOM | Fixed Costs | Total Costs | Capacity Total [MW] | Gener. Total [GWh] | C.F. Total [%] | Variable Costs Fuel mill/kWh | mill/kWh | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MANO TSASU0441202020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSASU1331162020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSASU1332162020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1041292020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1042292020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU1041292020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU3641282020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2341292020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2342292020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0832342020310 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241042020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0632061020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0632062020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0641062020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSBBU0441182020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSBBU0431042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112271020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112272040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 RET4 26. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSBBU0812341020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241041020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241042020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0231032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0241032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSBBN0141031010102 01 RET4 129. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSBBN0641102020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2241302020110 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2241302020410 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2242302020410 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPSDTSBLU0742261010110 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBSU0441392020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBSU2341292020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0432172010110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1432282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1432282020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1441282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1441282020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020510 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0431181020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0432181020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACE  TSCBU0131032020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBU0231032020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     RET4         438.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1131272010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1131252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     RET4          84.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0631102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1731282010310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0832342020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020510 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

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ECAOOHTSDBN0441042020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0232032020110 01     RET4          83.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     RET4         128.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0632232020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020401 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

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ECAOWVTSFBU0641041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 RET4 69. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBC0641112020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 RET4 153. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 RET4 74. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0511271040310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0511272020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

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MANOILTSHBU0441192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBC0241411020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBC0241412020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBC0641112020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 RET4 110. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISS0541272020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MECS | TSKBU0412391050710 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSKBU0441042020110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOINT | SKBU0432182020110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOINT | SKBU0432182020210 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | TSKBU0411391020710 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSKBU0441181010110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSKBU0441182020110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANC | TSKBU0632102020210 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANC | TSKBU0641102020210 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSKSU1141261010110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMIT | SLBU0432152020110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMIT | SLBU0441152020110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSLBU0231052020110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSLBU0232052020110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSLBU0241052020110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSLBU0411141020710 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSLBU0411141050710 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSLBU0412141020710 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSLBU0432141020210 | | 01 | | RET4 | | | | | | | | | | 33. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSLBU0632182020110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACENJT | SLBU0112032020710 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWIT | SLBU1341392020110 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSLBU1112261020710 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPPNET | SLBU1412281020310 | | 01 | | RET4 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

SPPNMOTSLBU0531281020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSLBN2932012020102 01 RET4 48. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSLSU0712261020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0441142020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2010

| | | |

ERCTTXTSXLS2342302030303 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSLATSXLS1041302020103 02 RET4 650. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSXLS2341302020103 02 RET4 650. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS1941292020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS3541292020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSXSS3642282020104 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841351020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSXSS0832402020104 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0741322020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBU0432191010210 01 RET4 34. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0432192020204 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSYBS0441042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.450
Total Annual Costs
Year: 2010

| Unit Name | | VOM mill/kWh | Total MMUS$ | Capital US$/kW/a | FOM US$/kW/a | Fixed Costs Total MMUS$ | Capacity [MW] | Gener. [GWh] | C.F. [%] | Total MMUS$ | Variable Costs Fuel mill/kWh | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPN | TSYBS1742282020703 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSYBA0441192020105 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOH | TSYBA0441041020105 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | TSYBA0141022020105 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA KY | TSYBA0641201010105 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSYSS1141262020304 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSYSS1142262020203 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSYSS1142262020703 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSYSS1741282020304 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSYSS1742282020103 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSZBU0431192020110 01 RET4 | 74. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSZBU0432192010210 01 RET4 | 40. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | TSZBN0241031020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSZBS0431142010103 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE | TSZBS0241032020203 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | TSZBS1541121020103 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | TSZBS1541122020103 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWYT | SZLS0841322020103 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPAWYT | SZLS0841322020103 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPEWYT | SZLS0841322020703 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPEWYT | SZLS0842322020104 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | CGCOU0431392050710 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | CGCOU0231412050710 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | CGCOU0411142050710 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MACE CGCOU0141012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0211412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0211412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0231412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0232412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1211162050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1311162050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOU0131022050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCOU0931012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CGCOU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0311092050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0331092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCOU0611112050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0811372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0831372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0832372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE CGCOU0731322050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

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VACANCTSBBC0641101020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBA0341092020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSABA0141011020206 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSABA1541132020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAWVTSABA0641052020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSZBA0641051020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBA1541122020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSZBA0641052020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLA0641202020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLA0241052050705 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLA0411182020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA MSTCOLA1641242020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLA0541252020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLA0831402020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0332092020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBO0632102020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBS0441041020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSS0542282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PNW WATSBSS0741372020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSO1332392020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSDSS0541282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESS1741282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBN0641042020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBN0131022020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSFBA0241412020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2010

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| VACANCTSGBC0641102020101 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOHTSGBN0441142020102 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACSMDTSHBO0241081010302 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSHBO0632102020202 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBN0441041020102 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBN0441042020102 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBN0441042020302 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSJBO0412392020202 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANCTSKBO0632102020202 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 122. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SOU | TSKBC0641232020101 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSLBC0441181020101 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSLBC0441182020101 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSXBE0232041020207 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSXBE0242041020207 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | TSZBD0241032020707 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | TCOLC0141012050301 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TCOLE0411391030308 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TCOLD0431182050307 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVATCOLD0331092050308 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTSCSA0541282020306 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NENG | TSDBD2831012020107 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMITSFSC0441392020101 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSGSC0441201020101 | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOHTSIBC0441041020101 | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | | | | | | | | | RET4 | | | | | | 0. | 0. | N/A | | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

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ECAO  TSVBA0641201010105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441181020105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Coal Early Retirement         73            5516.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  NUKE 00    9000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2010

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ECAO  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCT  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCT  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2010

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WUMS  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Nuke Early Retirement         74                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Total                                     988405. 4192097.     48.4    11.67
 1.81 56470.65    13.47     2.66    30.55 32826.97 89297.62    21.30
(**) Industrial Boiler unitary costs per MBtu, not used in the total averages of
 unitary costs
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.455
Total Annual Costs
Year: 2015

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VACA  TSZBA0641052020105 01                    521.    3880.     85.0     8.00
 3.91    46.22    11.91     0.00    43.30    22.56    68.78    17.73
ECAO  TCOLA0641202020105 01                    268.    1996.     85.0     6.35
 3.91    20.47    10.26     0.00    23.60     6.32    26.79    13.43
MACW  TCOLA0241052050705 01                    520.    3872.     85.0     7.35
 3.91    43.59    11.26     0.00    23.60    12.27    55.87    14.43
MANO  TCOLA0411182020105 01                     18.     134.     85.0     6.83
 3.91     1.44    10.74     0.00    23.60     0.42     1.86    13.91
TVA MSTCOLA1641242020105 01                    440.    3276.     85.0     9.64
 3.91    44.39    13.55     0.00    23.60    10.38    54.77    16.72
SPPNMOTCOLA0541252020105 01                    540.    4021.     85.0     7.21
 3.91    44.73    11.12     0.00    23.60    12.74    57.47    14.29
RMPA  TCOLA0831402020105 01                     80.     596.     85.0     6.66
 3.91     6.30    10.57     0.00    23.60     1.89     8.18    13.74
MACW  TSFBA0241412020105 01                    650.    4840.     85.0     8.83
 3.91    61.67    12.74     0.00    43.30    28.14    89.82    18.56
ECAO  TSXBE0232041020207 01                    194.    1341.     78.9    10.42
 3.85    19.13    14.27     0.00    43.30     8.40    27.53    20.54
ECAO  TSXBE0242041020207 01                    109.     753.     78.9     9.28
 3.85     9.89    13.13     0.00    43.30     4.72    14.61    19.40
MACE  TSZBD0241032020707 01                    144.     995.     78.9    12.74
 3.85    16.51    16.59     0.00    43.10     6.21    22.72    22.83
MECS  TCOLE0411391030308 01                     20.     149.     85.0    11.47
 3.85     2.28    15.32     0.00    43.30     0.87     3.15    21.13
MANO  TCOLD0431182050307 01                     42.     313.     85.0     7.89
 3.85     3.67    11.74     0.00    23.30     0.98     4.65    14.87
VACAVATCOLD0331092050308 01                     57.     424.     85.0    11.64
 3.85     6.57    15.49     0.00    23.30     1.33     7.90    18.62
SPPNMOTSCSA0541282020306 01                    550.    4095.     85.0     9.03
 3.91    53.01    12.94     0.00    43.30    23.82    76.82    18.76
NENG  TSDBD2831012020107 01                     78.     581.     85.0    13.53
 3.85    10.09    17.38     0.00    43.10     3.36    13.46    23.17
ECAO  TSVBA0641201010105 01                    141.    1050.     85.0     7.07
 3.91    11.52    10.98     0.00    43.50     6.13    17.66    16.82
ECAOINTSVBA0441181020105 01                    619.    4609.     85.0     7.68
 3.91    53.41    11.59     0.00    41.20    25.50    78.91    17.12
ECAOINTSVBA0441182020105 01                    865.    6441.     85.0     7.58
 3.91    74.02    11.49     0.00    41.80    36.16   110.18    17.11
MACE  TSDBA0141011020206 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.50     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01                    977.    7275.     85.0     7.10
 3.91    80.12    11.01     0.00    43.30    42.30   122.42    16.83
NENG  CPC  1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CPC  1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCPC  32    (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCPC  32    (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CPC  1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CPC  1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CPC  1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CPC  1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CPC  1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CPC  1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.456
Total Annual Costs
Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXCPC | 19 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCPC | 19 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCPC | 6 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCPC | 6 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ENTG CPC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCPC 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCPC 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CPC 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CPC 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CPC 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CPC 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Scrubbed Coal_NOx 1 | 26025. | 193467. | 84.9 | 8.72 | 3.91 | 2441.77 | 12.62 | 0.00 | 39.60 | 1030.72 | 3472.49 | 17.95 |
| ECAO TCOLS0231411020703 01 | 176. | 1098. | 71.2 | 9.39 | 2.94 | 13.54 | 12.33 | 0.00 | 43.00 | 7.57 | 21.10 | 19.22 |
| ECAO TCOLS0611182020703 01 | 53. | 395. | 85.0 | 7.89 | 2.94 | 4.28 | 10.83 | 0.00 | 43.00 | 2.28 | 6.56 | 16.61 |
| ECAO TCOLS0631041050303 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.10 | 0.00 | 0.00 | 0.00 |
| MACW TCOLS0231412050304 01 | 32. | 221. | 78.9 | 10.51 | 2.94 | 2.98 | 13.45 | 0.00 | 23.10 | 0.74 | 3.71 | 16.80 |
| WUMSWITCOLS1231391020104 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 43.00 | 0.00 | 0.00 | 0.00 |
| MAPP TCOLS1111252020203 01 | 76. | 566. | 85.0 | 10.37 | 2.94 | 7.53 | 13.31 | 0.00 | 43.00 | 3.27 | 10.80 | 19.09 |
| VACANCTCOLS0641102050304 01 | 167. | 1244. | 85.0 | 13.00 | 2.94 | 19.83 | 15.94 | 0.00 | 23.10 | 3.86 | 23.69 | 19.05 |
| VACAVATCOLS0331092050304 01 | 35. | 261. | 85.0 | 11.64 | 2.94 | 3.80 | 14.58 | 0.00 | 23.10 | 0.81 | 4.61 | 17.68 |
| VACA TABS 0631042050304 01 | 74. | 551. | 85.0 | 8.89 | 2.94 | 6.52 | 11.83 | 0.00 | 23.10 | 1.71 | 8.23 | 14.93 |
| TVA TSWBS0642202030303 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.10 | 0.00 | 0.00 | 0.00 |
| MAPP TSWLS0732312030103 02 | 74. | 468. | 72.2 | 11.23 | 2.94 | 6.63 | 14.17 | 0.00 | 43.00 | 3.18 | 9.82 | 20.97 |
| MAPP TSWSS1132261030103 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 35.60 | 0.00 | 0.00 | 0.00 |
| ECAOOHTOLBS0432142020304 01 | 49. | 274. | 63.9 | 11.75 | 2.94 | 4.03 | 14.69 | 0.00 | 42.70 | 2.09 | 6.12 | 22.32 |
| WUMSWITOLBS1312162030304 01 | 22. | 164. | 85.0 | 10.82 | 2.94 | 2.25 | 13.76 | 0.00 | 43.00 | 0.95 | 3.20 | 19.54 |
| MANO TOLBS0432191010103 01 | 86. | 640. | 85.0 | 8.01 | | | | | | | | |

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 2.94     7.01    10.95     0.00    42.70     3.67    10.68    16.68
MANO  TOLBS0432192010203 01                    88.     655.     85.0     8.02
 2.94     7.18    10.96     0.00    42.70     3.76    10.94    16.70
RMPA  TRRBS0832342030304 01                   100.     745.     85.0     9.16
 2.94     9.01    12.10     0.00    23.10     2.31    11.32    15.20
MACWPATSABS0241032020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01                   158.    1177.     85.0     7.95
 2.94    12.82    10.89     0.00    43.00     6.79    19.61    16.67
RMPA  TSABS0841341020304 01                   107.     797.     85.0     7.91
 2.94     8.65    10.85     0.00    43.00     4.60    13.25    16.63
RMPA  TSABS0841342020303 01                   352.    2621.     85.0     7.56
 2.94    27.52    10.50     0.00    42.70    15.03    42.55    16.23
RMPA  TSABS0841342020304 01                   446.    3321.     85.0     8.26
 2.94    37.19    11.20     0.00    42.80    19.09    56.28    16.95
NWPE  TSABS0841352020104 01                  1380.    9893.     81.9    12.85
 2.94   156.20    15.79     0.00    42.70    58.91   215.10    21.74
ECAOOHTSEBS0431141010103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
MAPP  TSEBS1142252020103 01                   217.    1354.     71.2    10.65
 2.94    18.39    13.59     0.00    43.00     9.33    27.72    20.48
FRCCFLTSEBS1541132020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    42.70     0.00     0.00     0.00
WUMSWITSGBS1231392020104 01                    80.     499.     71.2    11.33
 2.94     7.12    14.27     0.00    43.00     3.44    10.56    21.16
MANOILTSGBS0412191020703 01                    22.     164.     85.0     8.47
 2.94     1.87    11.41     0.00    43.00     0.95     2.81    17.18
FRCCFLTSGBS1531132020103 01                    88.     655.     85.0    14.19
 2.94    11.23    17.13     0.00    43.00     3.78    15.01    22.91
FRCCFLTSGBS1532132020103 01                    87.     648.     85.0    14.74
 2.94    11.46    17.68     0.00    43.00     3.74    15.20    23.46
FRCCFLTSGBS1541132020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
MAPP  TSISS1132262020703 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
MAPP  TSISS1141262020703 01                   350.    2419.     78.9    11.19
 2.94    34.18    14.13     0.00    42.70    14.95    49.12    20.31
ENTGMOTSISS0541272020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    40.60     0.00     0.00     0.00
SPPNMOTSUBS0541272020103 01                   178.    1230.     78.9    11.76
 2.94    18.08    14.70     0.00    42.70     7.60    25.68    20.88
AZNM  TSUBS0841361020203 01                   365.    2718.     85.0    10.76
 2.94    37.24    13.70     0.00    40.60    14.82    52.06    19.15
AZNM  TSUBS0841352020203 01                  2250.   16754.     85.0    12.07
 2.94   251.44    15.01     0.00    42.70    96.08   347.51    20.74
AZNM  TSUBS0841362020203 01                  1095.    8154.     85.0    10.85
 2.94   112.47    13.79     0.00    40.60    44.46   156.93    19.25
AZNM  TSUBS0841362020304 01                   720.    5361.     85.0     9.48
 2.94    66.61    12.42     0.00    29.40    21.17    87.77    16.37
AZNM  TSUBS0841362020703 01                   355.    2643.     85.0    10.92
 2.94    36.65    13.86     0.00    41.30    14.66    51.31    19.41
RMPA  TSUBS0841332020304 01                   262.    1951.     85.0     6.79
 2.94    18.99     9.73     0.00    40.60    10.64    29.63    15.19
RMPA  TSUBS0842332020203 01                   856.    6374.     85.0     6.90
 2.94    62.72     9.84     0.00    40.60    34.75    97.47    15.29
RMPA  TSUBS0842332020304 01                   519.    3865.     85.0     6.89
 2.94    38.00     9.83     0.00    41.10    21.33    59.33    15.35
ECAO  TSVBS0641201020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    42.70     0.00     0.00     0.00
ECAO  TSVBS0641202020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    42.70     0.00     0.00     0.00
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SOU MSTSXBS1641292020203 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    40.60     0.00     0.00     0.00
AZNM  TSXBS0841362020303 01                  275.    2048.     85.0    10.96
 2.94    28.46    13.90     0.00    40.60    11.16    39.62    19.35
AZNM  TSXBS0841362020703 01                  220.    1638.     85.0    11.06
 2.94    22.94    14.00     0.00    42.80     9.42    32.36    19.75
AZNM  TSXBS0842362020703 01                  110.     819.     85.0    11.48
 2.94    11.81    14.42     0.00    42.70     4.70    16.51    20.16
NWPE  TSXBS0841332020103 01                 1250.    9308.     85.0     6.42
 2.94    87.10     9.36     0.00    41.30    51.63   138.73    14.90
NWPE  TSXBS0841402020103 01                 2410.   17946.     85.0     7.39
 2.94   185.40    10.33     0.00    42.30   101.94   287.34    16.01
NWPE  TSXBS0841332020303 01                 2440.   18169.     85.0     6.40
 2.94   169.77     9.34     0.00    40.60    99.06   268.84    14.80
NWPE  TSXBS0841362020304 01                  274.    2040.     85.0    10.55
 2.94    27.52    13.49     0.00    40.60    11.12    38.64    18.94
ERCTTXTSXLS2341302020103 02                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    40.60     0.00     0.00     0.00
ERCTTXTSXLS2342302020103 02                 4152.   22541.     62.0    13.30
 2.94   366.13    16.24     0.00    41.00   170.24   536.37    23.80
ERCTTXTSXLS2342302030303 02                  300.    2234.     85.0    12.85
 2.94    35.28    15.79     0.00    23.10     6.93    42.21    18.90
MAPPNDTSXLS0732312020304 02                   69.     514.     85.0     9.16
 2.94     6.22    12.10     0.00    40.60     2.80     9.02    17.55
MAPPNDTSXLS0741311020103 02                  604.    4392.     83.0     8.78
 2.94    51.47    11.72     0.00    40.60    24.52    75.99    17.30
MAPPNDTSXLS0742311010103 02                  420.    3127.     85.0     9.79
 2.94    39.82    12.73     0.00    42.70    17.93    57.75    18.47
MAPPNDTSXLS0742312010304 02                  421.    2910.     78.9     9.60
 2.94    36.47    12.54     0.00    40.60    17.09    53.57    18.41
MAPPNDTSXLS0742312020304 02                  900.    6702.     85.0     9.24
 2.94    81.64    12.18     0.00    40.60    36.54   118.18    17.63
SPPSLATSXLS1041302020103 02                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    35.60     0.00     0.00     0.00
SPPSTXTSXLS2341302020103 02                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    40.60     0.00     0.00     0.00
ERCTTXTSXSS1941292020303 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    40.60     0.00     0.00     0.00
ERCTTXTSXSS2341292020103 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    35.60     0.00     0.00     0.00
ERCTTXTSXSS2341292020303 01                  530.    3947.     85.0    12.00
 2.94    58.98    14.94     0.00    23.10    12.24    71.22    18.05
ERCTTXTSXSS3541292020103 01                  676.    5034.     85.0    12.26
 2.94    76.53    15.20     0.00    35.60    24.07   100.59    19.98
SPPS  TSXSS3642282020104 01                  520.    3872.     85.0     9.41
 2.94    47.83    12.35     0.00    35.60    18.51    66.34    17.13
AZNM  TSXSS0841351020303 01                 1480.   11021.     85.0    11.20
 2.94   155.80    14.14     0.00    42.70    63.20   218.99    19.87
AZNM  TSXSS0841352020203 01                  498.    3708.     85.0    12.04
 2.94    55.55    14.98     0.00    40.60    20.22    75.77    20.43
AZNM  TSXSS0841352020303 01                  235.    1750.     85.0    12.06
 2.94    26.25    15.00     0.00    40.60     9.54    35.79    20.45
AZNM  TSXSS0842351020203 01                  312.    2323.     85.0    14.92
 2.94    41.48    17.86     0.00    42.70    13.32    54.80    23.59
AZNM  TSXSS0842351020703 01                  220.    1638.     85.0    12.78
 2.94    25.76    15.72     0.00    43.00     9.46    35.22    21.50
AZNM  TSXSS0842352020203 01                  804.    5987.     85.0    13.75
 2.94    99.92    16.69     0.00    41.50    33.37   133.29    22.26
AZNM  TSXSS0842352020703 01                  340.    2532.     85.0    12.46
 2.94    38.99    15.40     0.00    43.00    14.62    53.61    21.17
RMPA  TSXSS0832402020104 01                   80.     596.     85.0     8.89
 2.94     7.04    11.83     0.00    23.10     1.85     8.89    14.93
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RMPA  TSASS0841342020303 01                    178.    1325.     85.0     8.32
 2.94    14.93    11.26     0.00    43.00     7.65    22.58    17.04
ECAOOHTSBBS0441041020304 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
PNW WATSBSS0741372020103 01                  1340.    9978.     85.0     9.06
 2.94   119.77    12.00     0.00    42.70    57.22   176.99    17.74
SPPNMOTSDSS0541282020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    40.60     0.00     0.00     0.00
SPPN  TSESS1741282020103 01                    668.    4974.     85.0     9.16
 2.94    60.18    12.10     0.00    42.70    28.52    88.71    17.83
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Scrubbed Coal                   2           43679.  315018.     82.3     9.77
 2.94  4004.22    12.71     0.00    40.54  1770.80  5775.02    18.33

UPNY  TCOLN0131022020102 01                     47.     350.     85.0    15.96
 2.45     6.44    18.41     0.00    32.20     1.51     7.96    22.74
NENGNHTCOLN2931012020102 01                     97.     543.     63.9    17.49
 2.45    10.82    19.94     0.00    32.20     3.12    13.95    25.70
NENGNHTSABC2941011010101 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.40     0.00     0.00     0.00
VACANCTSABC0641101020201 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    23.00     0.00     0.00     0.00
SOU ALTSABC0641232020101 01                  1341.    9985.     85.0    11.78
 2.51   142.64    14.29     0.00    12.20    16.36   159.00    15.92
MACEDETSABN0241032020102 01                    403.    2514.     71.2    15.79
 2.45    45.86    18.24     0.00    22.60     9.11    54.97    21.87
ECAO  TSBBN0241041020102 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.60     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01                    343.    2371.     78.9    11.77
 2.45    33.71    14.22     0.00    32.20    11.04    44.75    18.88
MACE  TSBBN0231032020102 01                     84.     524.     71.2    15.87
 2.45     9.60    18.32     0.00    32.20     2.70    12.31    23.49
MACE  TSBBN0241032020102 01                    167.    1042.     71.2    14.97
 2.45    18.15    17.42     0.00    32.20     5.38    23.52    22.58
MACENJTSBBN0141031010102 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.20     0.00     0.00     0.00
VACANCTSBBN0641102020102 01                    514.    3572.     79.3    13.10
 2.45    55.56    15.55     0.00    32.20    16.55    72.11    20.19
VACAVATSBBN0341091020102 01                    389.    2426.     71.2    14.59
 2.45    41.35    17.04     0.00    32.20    12.53    53.88    22.21
VACAVATSBBN0341092020102 01                    159.    1099.     78.9    13.98
 2.45    18.05    16.43     0.00    32.20     5.12    23.17    21.09
VACAVATSBBN0341092020202 01                    156.     973.     71.2    13.95
 2.45    15.96    16.40     0.00    32.20     5.02    20.98    21.56
MACEDETSCBN0241032020102 01                    162.    1120.     78.9    14.18
 2.45    18.62    16.63     0.00    26.60     4.31    22.93    20.48
MANO  TSCSO0441182010102 01                    292.    2018.     78.9    11.72
 1.54    26.76    13.26     0.00    32.30     9.43    36.19    17.93
ECAO  TSDBC0641061020101 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.20     0.00     0.00     0.00
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VACANCTSBBC0641102020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.30     0.00     0.00     0.00
MACEVATOLBO0332092020202 01                  176.     872.     56.5    16.90
 1.54    16.08    18.44     0.00    32.30     5.68    21.76    24.96
MACEVATOLBO0341092020202 01                  306.    2115.     78.9    13.76
 1.54    32.37    15.30     0.00    32.30     9.88    42.25    19.98
VACANCTOLBO0632102020202 01                   76.     425.     63.9    14.96
 1.54     7.01    16.50     0.00    32.30     2.45     9.47    22.27
ECAOOHTSCBC0441041020101 01                  500.    3456.     78.9    11.67
 2.51    49.00    14.18     0.00    23.00    11.50    60.50    17.51
TVA   TSCBC0641212020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
TVA   TSCBC0641212020201 01                 1434.   10678.     85.0    12.32
 2.51   158.30    14.83     0.00    32.60    46.75   205.05    19.20
WUMSWITSDSO1332392020102 01                   82.     511.     71.2    12.71
 1.54     7.29    14.25     0.00    32.30     2.65     9.94    19.43
ECAOWVTSFBN0641042020102 01                  555.    3836.     78.9    11.12
 2.45    52.05    13.57     0.00    26.60    14.76    66.82    17.42
UPNY  TSFBN0131022020102 01                  210.    1564.     85.0    15.34
 2.45    27.82    17.79     0.00    32.20     6.76    34.58    22.11
VACANCTSGBC0641102020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.60     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01                  380.    2126.     63.9    12.46
 1.54    29.77    14.00     0.00    32.30    12.27    42.04    19.77
VACA  TSHBO0632102020202 01                  200.    1119.     63.9    15.91
 1.54    19.53    17.45     0.00    32.30     6.46    25.99    23.22
ECAO  TSHBN0441041020102 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.60     0.00     0.00     0.00
ECAO  TSHBN0441042020102 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.60     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01                  180.    1244.     78.9    12.02
 2.45    18.00    14.47     0.00    32.20     5.80    23.80    19.13
MECS  TSJBO0412392020202 01                   20.     149.     85.0    11.11
 1.54     1.88    12.65     0.00    32.30     0.65     2.53    16.99
VACANCTSKBO0632102020202 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.30     0.00     0.00     0.00
SOU   TSKBC0641232020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAO  TSLBC0441181020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAO  TSLBC0441182020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    23.00     0.00     0.00     0.00
MACE  TCOLC0141012050301 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    12.20     0.00     0.00     0.00
MECSMITSFSC0441392020101 01                 3000.   22339.     85.0    10.89
 2.51   299.34    13.40     0.00    27.00    81.00   380.34    17.03
ECAO  TSGSC0441201020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.60     0.00     0.00     0.00
TVA   TSLSC0641222020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    23.00     0.00     0.00     0.00
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Unscrubbed Coal_NOx            3           15226.  107356.     80.5    12.17
 2.40  1564.04    14.57     0.00    27.59   420.15  1984.19    18.48
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Total Annual Costs

Year: 2015

| | | | | Fixed Costs | | Total Costs | | Variable Costs | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | | | | |
| | | | | | | Total | Total | | | | | | | | | | |
| | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | | | | |
| Unit | Name | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | | | | |
| MECS | TCOLU0411392050710 | 01 | | | | 22. | 164. | 85.0 | 10.36 | VOM | Total | Capital | FOM | | | | |
| | | | | | | | | | | mill/kWh | mill/kWh | US$/kW/a | US$/kW/a | | | | |
| 1.54 | 1.95 | 11.90 | 0.00 | 31.80 | 0.70 | 2.65 | 16.17 | | | | | | | | | | |
| MECS | TCOLU0431152020110 | 01 | | | | 45. | 252. | 63.9 | 14.37 | | | | | | | | |
| 1.54 | 4.01 | 15.91 | 0.00 | 32.00 | 1.44 | 5.45 | 21.63 | | | | | | | | | | |
| MECS | TCOLU0431392020110 | 01 | | | | 253. | 1884. | 85.0 | 10.38 | | | | | | | | |
| 1.54 | 22.46 | 11.92 | 0.00 | 32.00 | 8.10 | 30.55 | 16.22 | | | | | | | | | | |
| ECAO | TCOLU0211412050710 | 01 | | | | 8. | 60. | 85.0 | 10.51 | | | | | | | | |
| 1.54 | 0.72 | 12.05 | 0.00 | 32.00 | 0.26 | 0.97 | 16.35 | | | | | | | | | | |
| ECAO | TCOLU0231082020110 | 01 | | | | 28. | 116. | 47.3 | 12.70 | | | | | | | | |
| 1.54 | 1.65 | 14.24 | 0.00 | 32.00 | 0.90 | 2.55 | 21.96 | | | | | | | | | | |
| ECAO | TCOLU0241082050710 | 01 | | | | 204. | 1410. | 78.9 | 14.48 | | | | | | | | |
| 1.54 | 22.58 | 16.02 | 0.00 | 11.70 | 2.39 | 24.97 | 17.71 | | | | | | | | | | |
| ECAO | TCOLU0411181050710 | 01 | | | | 39. | 290. | 85.0 | 11.58 | | | | | | | | |
| 1.54 | 3.81 | 13.12 | 0.00 | 32.00 | 1.25 | 5.06 | 17.42 | | | | | | | | | | |
| ECAO | TCOLU0411142050710 | 01 | | | | 111. | 827. | 85.0 | 11.14 | | | | | | | | |
| 1.54 | 10.48 | 12.68 | 0.00 | 32.00 | 3.55 | 14.03 | 16.97 | | | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | | | | 0. | 0. | N/A | 0.00 | | | | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | | | | 94. | 175. | 21.2 | 14.77 | | | | | | | | |
| 1.54 | 2.85 | 16.31 | 0.00 | 32.00 | 3.01 | 5.86 | 33.52 | | | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | | | | 106. | 593. | 63.9 | 14.77 | | | | | | | | |
| 1.54 | 9.67 | 16.31 | 0.00 | 32.00 | 3.39 | 13.06 | 22.03 | | | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | | | | 179. | 1117. | 71.2 | 11.58 | | | | | | | | |
| 1.54 | 14.65 | 13.12 | 0.00 | 32.00 | 5.73 | 20.38 | 18.25 | | | | | | | | | | |
| ECAO | TCOLU0431192020110 | 01 | | | | 155. | 742. | 54.6 | 9.26 | | | | | | | | |
| 1.54 | 8.01 | 10.80 | 0.00 | 32.00 | 4.96 | 12.97 | 17.49 | | | | | | | | | | |
| ECAO | TCOLU0431042050710 | 01 | | | | 72. | 403. | 63.9 | 12.52 | | | | | | | | |
| 1.54 | 5.67 | 14.06 | 0.00 | 32.00 | 2.30 | 7.97 | 19.78 | | | | | | | | | | |
| ECAO | TCOLU0611062020210 | 01 | | | | 40. | 298. | 85.0 | 10.37 | | | | | | | | |
| 1.54 | 3.55 | 11.91 | 0.00 | 32.00 | 1.28 | 4.83 | 16.21 | | | | | | | | | | |
| ECAO | TCOLU0631051020110 | 01 | | | | 0. | 0. | N/A | 0.00 | | | | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| ECAO | TCOLU0631202020110 | 01 | | | | 32. | 221. | 78.9 | 10.78 | | | | | | | | |
| 1.54 | 2.72 | 12.32 | 0.00 | 32.00 | 1.02 | 3.75 | 16.95 | | | | | | | | | | |
| ECAOVAT | COLU0331062020110 | 01 | | | | 90. | 504. | 63.9 | 12.13 | | | | | | | | |
| 1.54 | 6.88 | 13.67 | 0.00 | 32.00 | 2.88 | 9.76 | 19.39 | | | | | | | | | | |
| MACW | TCOLU0211412050210 | 01 | | | | 82. | 611. | 85.0 | 10.51 | | | | | | | | |
| 1.54 | 7.36 | 12.05 | 0.00 | 32.00 | 2.62 | 9.98 | 16.35 | | | | | | | | | | |
| MACW | TCOLU0231031020310 | 01 | | | | 0. | 0. | N/A | 0.00 | | | | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| MACW | TCOLU0231032020110 | 01 | | | | 0. | 0. | N/A | 0.00 | | | | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| MACW | TCOLU0231412050710 | 01 | | | | 82. | 511. | 71.2 | 14.45 | | | | | | | | |
| 1.54 | 8.18 | 15.99 | 0.00 | 11.70 | 0.96 | 9.14 | 17.87 | | | | | | | | | | |
| MACW | TCOLU0241412050710 | 01 | | | | 0. | 0. | N/A | 0.00 | | | | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.70 | 0.00 | 0.00 | 0.00 | | | | | | | | | | |
| WUMS | TCOLU0411392020710 | 01 | | | | 25. | 186. | 85.0 | 10.38 | | | | | | | | |

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 1.54     2.22    11.92     0.00    32.00     0.80     3.02    16.22
WUMSWITCOLU1311162040310 01                    44.     328.     85.0     9.10
 1.54     3.49    10.64     0.00    32.00     1.41     4.90    14.94
WUMSWITCOLU1311162050710 01                    22.     164.     85.0     9.10
 1.54     1.74    10.64     0.00    32.00     0.70     2.45    14.94
WUMSWITCOLU1331392020110 01                    56.     349.     71.2    10.38
 1.54     4.16    11.92     0.00    32.00     1.79     5.96    17.05
MANO  TCOLU0431192020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01                   102.     340.     38.1    10.05
 1.54     3.94    11.59     0.00    32.00     3.26     7.21    21.18
MANOMOTCOLU0511282050710 01                    17.     127.     85.0     8.89
 1.54     1.32    10.43     0.00    32.00     0.54     1.86    14.73
MAPP  TCOLU0711312050710 01                    20.     149.     85.0     8.25
 1.54     1.46     9.79     0.00    25.80     0.52     1.97    13.25
MAPP  TCOLU0731311040110 01                    28.     208.     85.0     8.78
 1.54     2.15    10.32     0.00    32.00     0.90     3.05    14.62
MAPP  TCOLU1111261040110 01                    14.     104.     85.0     9.98
 1.54     1.20    11.52     0.00    17.40     0.24     1.44    13.85
MAPP  TCOLU1111271040210 01                    19.     141.     85.0     9.22
 1.54     1.52    10.76     0.00    32.00     0.61     2.13    15.06
MAPP  TCOLU1111261040310 01                     8.      60.     85.0     9.98
 1.54     0.69    11.52     0.00    32.00     0.26     0.94    15.81
MAPP  TCOLU1111252020110 01                    31.     231.     85.0     8.34
 1.54     2.28     9.88     0.00    32.00     0.99     3.27    14.17
MAPP  TCOLU1111262050710 01                   103.     767.     85.0     9.98
 1.54     8.83    11.52     0.00    32.00     3.30    12.13    15.81
MAPP  TCOLU1131261040110 01                    37.     207.     63.9     9.98
 1.54     2.38    11.52     0.00    17.40     0.64     3.03    14.63
MAPP  TCOLU1131262020110 01                    47.     263.     63.9     9.98
 1.54     3.03    11.52     0.00    32.00     1.50     4.53    17.24
MAPP  TCOLU1131272020110 01                    62.     347.     63.9    10.38
 1.54     4.14    11.92     0.00    32.00     1.98     6.12    17.64
MAPP  TCOLU1131252020210 01                    73.     408.     63.9    10.38
 1.54     4.87    11.92     0.00    32.00     2.34     7.21    17.64
MAPP  TCOLU1131262020310 01                   150.     936.     71.2     9.98
 1.54    10.77    11.52     0.00    32.00     4.80    15.57    16.65
MAPPWITCOLU1311161010710 01                    24.     179.     85.0     9.10
 1.54     1.90    10.64     0.00    32.00     0.77     2.67    14.94
MAPPWITCOLU1311162020110 01                    63.     469.     85.0     8.89
 1.54     4.89    10.43     0.00    32.00     2.02     6.91    14.73
MAPPWITCOLU1311162040210 01                    49.     365.     85.0     9.10
 1.54     3.88    10.64     0.00    32.00     1.57     5.45    14.94
UPNY  TCOLU0111022050110 01                   117.     871.     85.0    13.14
 1.54    12.79    14.68     0.00    32.00     3.74    16.54    18.98
UPNY  TCOLU0111022020210 01                    44.     328.     85.0    12.01
 1.54     4.44    13.55     0.00    32.00     1.41     5.85    17.85
UPNY  TCOLU0111022050210 01                    82.     611.     85.0    13.14
 1.54     8.97    14.68     0.00    32.00     2.62    11.59    18.98
UPNY  TCOLU0131022020110 01                    55.     410.     85.0    15.96
 1.54     7.17    17.50     0.00    32.00     1.76     8.93    21.80
NENG  TCOLU0911012050710 01                    14.     104.     85.0    17.49
 1.54     1.98    19.03     0.00    22.40     0.31     2.30    22.04
FRCCFLTCOLU1531132020110 01                    92.     685.     85.0    13.57
 1.54    10.35    15.11     0.00    32.00     2.94    13.30    19.41
VACA  TCOLU0631041050710 01                    74.     462.     71.2    12.52
 1.54     6.49    14.06     0.00    11.70     0.87     7.36    15.94
VACA  TCOLU0631102050710 01                    55.     410.     85.0    12.50
 1.54     5.75    14.04     0.00    11.70     0.64     6.40    15.62
VACANCTCOLU0631102020110 01                    98.     548.     63.9    14.45
 1.54     8.77    15.99     0.00    32.00     3.14    11.90    21.71
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.462
Total Annual Costs
Year: 2015

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ECAO  TOLBU0632051020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01                  145.     601.     47.3    10.96
 1.54     7.51    12.50     0.00    32.00     4.64    12.15    20.22
ECAO  TOLBU0632192020210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01                  137.     767.     63.9     9.95
 1.54     8.81    11.49     0.00    32.00     4.38    13.19    17.21
ECAOMDTOLBU0231082020110 01                   86.     481.     63.9    12.08
 1.54     6.56    13.62     0.00    32.00     2.75     9.31    19.34
ECAOOHTOLBU0432142020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.30     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01                  115.     569.     56.5    15.94
 1.54     9.95    17.48     0.00    32.00     3.68    13.63    23.95
MACW  TOLBU0232032050110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01                   14.     104.     85.0     9.10
 1.54     1.11    10.64     0.00    32.00     0.45     1.56    14.94
WUMSWITOLBU1312162020210 01                   24.     179.     85.0    11.80
 1.54     2.38    13.34     0.00    32.00     0.77     3.15    17.64
MANO  TOLBU0432192010210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTOLBU0532281010110 01                   49.     274.     63.9     9.66
 1.54     3.07    11.20     0.00    32.00     1.57     4.64    16.92
MAPP  TOLBU1141252020110 01                  130.     759.     66.7    10.48
 1.54     9.12    12.02     0.00    32.00     4.16    13.28    17.50
MAPPMOTOLBU0512282020110 01                   21.     156.     85.0     9.42
 1.54     1.71    10.96     0.00    32.00     0.67     2.39    15.26
MAPPMOTOLBU0532281010110 01                   97.     543.     63.9     9.84
 1.54     6.17    11.38     0.00    32.00     3.10     9.28    17.10
VACANCTOLBU0632101020210 01                   97.     206.     24.2    15.68
 1.54     3.54    17.22     0.00    32.00     3.10     6.64    32.32
VACANCTOLBU0632102020110 01                   79.     442.     63.9    14.79
 1.54     7.22    16.33     0.00    32.00     2.53     9.75    22.05
VACAVATOLBU0332092020110 01                  100.     560.     63.9    15.80
 1.54     9.70    17.34     0.00    32.00     3.20    12.90    23.06
VACAVATOLBU0332092020210 01                   71.     397.     63.9    15.81
 1.54     6.89    17.35     0.00    32.00     2.27     9.17    23.07
SPPN  TOLBU1732282020110 01                  144.     995.     78.9    10.48
 1.54    11.97    12.02     0.00    32.00     4.61    16.58    16.65
SPPN  TOLBU1742282020110 01                  148.    1102.     85.0     9.55
 1.54    12.22    11.09     0.00    32.00     4.74    16.96    15.39
SPPNMOTOLBU0511281020110 01                   84.     625.     85.0     8.89
 1.54     6.52    10.43     0.00    32.00     2.69     9.21    14.73
SPPNMOTOLBU0531281010110 01                   53.     288.     62.0     9.36
 1.54     3.14    10.90     0.00    32.00     1.70     4.83    16.79
SPPNMOTOLBU0531281020110 01                   96.     599.     71.2     9.18
 1.54     6.42    10.72     0.00    32.00     3.07     9.49    15.85
SPPNMOTOLBU0531282020110 01                   51.     318.     71.2     9.18
 1.54     3.41    10.72     0.00    32.00     1.63     5.04    15.85
SPPNMOTOLBU0532281010110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
RMPA  TOLSU0812321020110 01                   15.     112.     85.0     8.63
 1.54     1.14    10.17     0.00    26.40     0.40     1.53    13.71
ECAO  TRRBU0432042020110 01                  129.     535.     47.3    14.53
 1.54     8.59    16.07     0.00    32.00     4.13    12.72    23.80
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.463
Total Annual Costs
Year: 2015

| Unit Name | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Capacity Total [MW] MMUS$ | Gener. Total [GWh] MMUS$ | C.F. [%] | Variable Costs Fuel mill/kWh | VOM mill/kWh | Total mill/kWh | Total MMUS$ |
|---|---|---|---|---|---|---|---|---|---|
| MECS TSABU0441391020110 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051010110 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051020110 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSABU2341292020210 01 | 10.65 | 22.40 | 632. | 4706. | 85.0 | 9.11 | 1.54 | 14.16 | 50.10 |
| MACWPATSABU0241032020110 01 | 17.05 | 32.00 | 472. | 2598. | 62.8 | 15.51 | 1.54 | 15.10 | 44.30 |
| MANO TSABU0441182020110 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0541252020110 01 | 12.39 | 26.40 | 1158. | 6479. | 63.9 | 10.85 | 1.54 | 30.57 | 80.25 |
| MANOMOTSABU0542252020110 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282020110 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 | 10.84 | 32.00 | 135. | 842. | 71.2 | 9.30 | 1.54 | 4.32 | 9.13 |
| MAPP TSABU1142282020110 01 | 10.95 | 26.40 | 371. | 2564. | 78.9 | 9.41 | 1.54 | 9.79 | 28.07 |
| DSNYNYTSABU0141012020110 01 | 18.67 | 25.60 | 541. | 4028. | 85.0 | 17.13 | 1.54 | 13.85 | 75.22 |
| DSNYNYTSABU0142012020110 01 | 19.78 | 26.40 | 197. | 1362. | 78.9 | 18.24 | 1.54 | 5.20 | 26.94 |
| NENGCTTSABU3241012020110 01 | 17.76 | 26.40 | 104. | 776. | 85.0 | 16.22 | 1.54 | 2.75 | 13.78 |
| VACANCTSABU0641102020210 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 | 11.98 | 32.00 | 1206. | 8980. | 85.0 | 10.44 | 1.54 | 38.59 | 107.61 |
| SOU TSABU0641112020110 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641231020210 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641232020210 01 | 13.43 | 22.40 | 669. | 4982. | 85.0 | 11.89 | 1.54 | 14.99 | 66.91 |
| SOU MSTSABU1641242020110 01 | 15.10 | 26.40 | 536. | 3991. | 85.0 | 13.56 | 1.54 | 14.15 | 60.27 |
| SOU MSTSABU1641242020210 01 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841341020310 01 | 8.76 | 32.00 | 106. | 789. | 85.0 | 7.22 | 1.54 | 3.39 | 6.91 |
| RMPA TSABU0841342020310 01 | 8.48 | 22.40 | 208. | 1549. | 85.0 | 6.94 | 1.54 | 4.66 | 13.14 |

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NWPE  TSABU0832332020110 01                    70.     521.     85.0     6.44
 1.54     4.16     7.98     0.00    32.00     2.24     6.40    12.27
NWPE  TSABU0841332020110 01                   105.     782.     85.0     6.03
 1.54     5.92     7.57     0.00    32.00     3.36     9.28    11.87
NWPE  TSABU0841352020310 01                   258.    1921.     85.0     5.79
 1.54    14.08     7.33     0.00    22.40     5.78    19.86    10.34
MECS  TSASU0441392020110 01                  1260.    9382.     85.0    11.66
 1.54   123.85    13.20     0.00    22.40    28.22   152.07    16.21
ERCTTXTSASU1941291020310 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    24.60     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    24.40     0.00     0.00     0.00
MANO  TSASU0441202020110 01                   169.     946.     63.9    12.86
 1.54    13.61    14.40     0.00    32.00     5.41    19.02    20.12
MAPPWITSASU1331162020110 01                    87.     543.     71.2     9.07
 1.54     5.76    10.61     0.00    32.00     2.78     8.54    15.74
MAPPWITSASU1332162020110 01                    57.     319.     63.9     9.59
 1.54     3.55    11.13     0.00    32.00     1.82     5.38    16.85
ENTG  TSASU1041292020110 01                  2933.   21838.     85.0    13.06
 1.54   318.83    14.60     0.00    22.40    65.69   384.53    17.61
ENTG  TSASU1042292020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
SPPS  TSASU1041292020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
SPPS  TSASU3641282020110 01                  3838.   28579.     85.0     8.87
 1.54   297.57    10.41     0.00    23.00    88.27   385.84    13.50
SPPSTXTSASU2341292020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    24.40     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01                   346.    2576.     85.0    12.70
 1.54    36.69    14.24     0.00    26.40     9.13    45.83    17.79
SPPSTXTSASU3541292020310 01                  1800.   13403.     85.0    12.54
 1.54   188.67    14.08     0.00    22.40    40.32   228.99    17.08
PNW ORTSASU0842372020110 01                   508.    3783.     85.0    10.34
 1.54    44.93    11.88     0.00    22.40    11.38    56.31    14.89
RMPA  TSASU0832342020310 01                    49.     365.     85.0     9.24
 1.54     3.93    10.78     0.00    32.00     1.57     5.50    15.08
RMPA  TSASU0841342020310 01                  1155.    8600.     85.0     8.74
 1.54    88.42    10.28     0.00    24.70    28.53   116.95    13.60
NWPE  TSASU0742322020110 01                   156.    1162.     85.0     6.83
 1.54     9.73     8.37     0.00    26.40     4.12    13.85    11.92
NWPE  TSASU0841322020110 01                   106.     789.     85.0     6.58
 1.54     6.41     8.12     0.00    32.00     3.39     9.80    12.42
NWPE  TSASU0842322020110 01                   336.    2502.     85.0     6.68
 1.54    20.57     8.22     0.00    32.00    10.75    31.32    12.52
MECS  TSBBU0441392020110 01                   500.    3723.     85.0     9.12
 1.54    39.69    10.66     0.00    32.00    16.00    55.69    14.96
ECAO  TSBBU0241041020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ECAO  TSBBU0632061020110 01                   141.     470.     38.1    13.83
 1.54     7.23    15.37     0.00    32.00     4.51    11.74    24.96
ECAO  TSBBU0632062020110 01                    72.     298.     47.3    14.37
 1.54     4.75    15.91     0.00    32.00     2.30     7.05    23.63
ECAO  TSBBU0641062020110 01                   116.     724.     71.2    11.61
 1.54     9.52    13.15     0.00    32.00     3.71    13.23    18.28
ECAOINTSBBU0441182020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.464
Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSBBU0431042020110 01 | 188. | 1173. | 71.2 | 12.08 | 1.54 | 15.97 | 13.62 | 0.00 | 32.00 | 6.02 | 21.99 | 18.75 |
| ECAOOHTSBBU0441041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441042020110 01 | 633. | 4375. | 78.9 | 11.17 | 1.54 | 55.62 | 12.71 | 0.00 | 30.10 | 19.05 | 74.67 | 17.07 |
| MANOILTSBBU0441181010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.50 | 0.00 | 0.00 | 0.00 |
| MAPP TSBBU1112271020710 01 | 23. | 171. | 85.0 | 10.73 | 1.54 | 2.10 | 12.27 | 0.00 | 32.00 | 0.74 | 2.84 | 16.56 |
| MAPP TSBBU1112272040210 01 | 36. | 268. | 85.0 | 12.98 | 1.54 | 3.89 | 14.52 | 0.00 | 32.00 | 1.15 | 5.04 | 18.81 |
| MAPP TSBBU1131262020110 01 | 29. | 200. | 78.9 | 9.55 | 1.54 | 2.22 | 11.09 | 0.00 | 26.40 | 0.77 | 2.99 | 14.91 |
| MAPP TSBBU1131262020210 01 | 60. | 336. | 63.9 | 10.07 | 1.54 | 3.90 | 11.61 | 0.00 | 26.40 | 1.58 | 5.48 | 16.33 |
| MAPP TSBBU1132271040110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBBU1432282020210 01 | 85. | 633. | 85.0 | 9.91 | 1.54 | 7.25 | 11.45 | 0.00 | 26.40 | 2.24 | 9.49 | 15.00 |
| MAPPNETSBBU1441282010310 01 | 120. | 894. | 85.0 | 9.22 | 1.54 | 9.61 | 10.76 | 0.00 | 32.00 | 3.84 | 13.45 | 15.06 |
| MAPPNETSBBU1442282010310 01 | 105. | 782. | 85.0 | 9.93 | 1.54 | 8.97 | 11.47 | 0.00 | 26.40 | 2.77 | 11.74 | 15.01 |
| VACANCTSBBU0631102020110 01 | 78. | 436. | 63.9 | 14.39 | 1.54 | 6.95 | 15.93 | 0.00 | 32.00 | 2.50 | 9.45 | 21.65 |
| VACANCTSBBU0641102020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.20 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 | 106. | 593. | 63.9 | 14.38 | 1.54 | 9.44 | 15.92 | 0.00 | 32.00 | 3.39 | 12.84 | 21.64 |
| TVA TSBBU0641212020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0632112020110 01 | 107. | 426. | 45.4 | 15.78 | 1.54 | 7.37 | 17.32 | 0.00 | 32.00 | 3.42 | 10.80 | 25.36 |
| SOU TSBBU0641112020110 01 | 282. | 1759. | 71.2 | 14.40 | 1.54 | 28.04 | 15.94 | 0.00 | 26.20 | 7.39 | 35.43 | 20.14 |
| SOU TSBBU0641242020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 | 534. | 3976. | 85.0 | 13.25 | 1.54 | 58.81 | 14.79 | 0.00 | 32.00 | 17.09 | 75.90 | 19.09 |
| SOU MSTSBBU1641241020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641242020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| AZNM TSBBU0841361020310 01 | 156. | 1162. | 85.0 | 8.08 | 1.54 | 11.17 | 9.62 | 0.00 | 32.00 | 4.99 | 16.16 | 13.91 |
| AZNM TSBBU0841362020210 01 | 260. | 1936. | 85.0 | 8.22 | 1.54 | 18.89 | 9.76 | 0.00 | 22.40 | 5.82 | 24.72 | 12.77 |

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RMPA  TSBBU0812341020710 01                    48.     357.     85.0     8.68
 1.54     3.65    10.22     0.00    32.00     1.54     5.19    14.52
NWPE  TSBBU0841332020110 01                   425.    3165.     85.0     5.57
 1.54    22.51     7.11     0.00    26.40    11.22    33.73    10.66
ERCTTXTSBLU2241302020110 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MAPPSDTSBLU0742261010110 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MECS  TSBSU0441392020110 01                  1894.   13179.     79.4    11.44
 1.54   171.06    12.98     0.00    29.20    55.30   226.36    17.18
ERCTTXTSBSU2341292020110 01                  1160.    8638.     85.0    12.48
 1.54   121.09    14.02     0.00    22.40    25.98   147.08    17.03
MANO  TSBSU0432172010110 01                   100.     560.     63.9    13.03
 1.54     8.15    14.57     0.00    32.00     3.20    11.35    20.29
MANO  TSBSU0441172020110 01                  2672.   18467.     78.9    10.95
 1.54   230.73    12.49     0.00    32.00    85.50   316.23    17.12
MANO  TSBSU0441172020210 01                   579.    4002.     78.9    10.69
 1.54    48.95    12.23     0.00    32.00    18.53    67.48    16.86
MAPPNETSBSU1432282020110 01                    76.     525.     78.9    10.28
 1.54     6.21    11.82     0.00    32.00     2.43     8.64    16.45
MAPPNETSBSU1432282020210 01                   172.    1281.     85.0     9.74
 1.54    14.45    11.28     0.00    22.40     3.85    18.30    14.29
MAPPNETSBSU1441282020110 01                   585.    4356.     85.0     9.06
 1.54    46.15    10.60     0.00    22.40    13.10    59.26    13.60
MAPPNETSBSU1441282020210 01                   700.    5212.     85.0     8.31
 1.54    51.33     9.85     0.00    22.40    15.68    67.01    12.86
MAPPNETSBSU1442282020110 01                   569.    4237.     85.0     9.66
 1.54    47.45    11.20     0.00    29.90    17.01    64.46    15.21
MAPPNETSBSU1442282020510 01                   665.    4952.     85.0     9.46
 1.54    54.45    11.00     0.00    22.40    14.90    69.34    14.00
SPPNMOTSBSU0542282020110 01                   161.    1113.     78.9     9.36
 1.54    12.13    10.90     0.00    32.00     5.15    17.28    15.53
ECAOINTSCBU0431181020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOINTSCBU0432181020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ECAOOHTSCBU0441041020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
MACE  TSCBU0131032020310 01                    80.     499.     71.2    15.81
 1.54     8.66    17.35     0.00    32.00     2.56    11.22    22.48
MACEDETSCBU0231032020110 01                   178.    1110.     71.2    15.31
 1.54    18.71    16.85     0.00    32.00     5.70    24.41    21.98
MACW  TSCBU0241032020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01                   255.    1763.     78.9    12.48
 1.54    24.72    14.02     0.00    32.00     8.16    32.89    18.65
MACW  TSCBU0242032020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MAPP  TSCBU1131272010110 01                    80.     553.     78.9    10.00
 1.54     6.38    11.54     0.00    32.00     2.56     8.94    16.17
MAPP  TSCBU1131252020110 01                    34.     190.     63.9    10.38
 1.54     2.27    11.92     0.00    32.00     1.09     3.36    17.64
MAPP  TSCBU1132252020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01                   362.    2696.     85.0    15.96
 1.54    47.18    17.50     0.00    32.00    11.58    58.77    21.80
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.465
Total Annual Costs
Year: 2015

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MAPPWITSCSU1342162020210 01                    377.    2606.     78.9     9.71
 1.54    29.32    11.25     0.00    22.40     8.44    37.76    14.49
MECS  TSDBU0441392020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACSMDTSDBU0241081020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.50     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01                    584.    4351.     85.0     9.22
 1.54    46.82    10.76     0.00    32.00    18.70    65.52    15.06
MANOILTSDBU0441191020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MANOILTSDBU0441192020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01                   2300.   15896.     78.9    10.28
 1.54   187.88    11.82     0.00    26.40    60.72   248.60    15.64
FRCCFLTSDBU1541131020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.90     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01                    218.    1623.     85.0    13.43
 1.54    24.31    14.97     0.00    22.40     4.88    29.19    17.98
VACANCTSDBU0641102020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.50     0.00     0.00     0.00
TVA   TSDBU0641222020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01                    642.    4004.     71.2    13.75
 1.54    61.24    15.29     0.00    32.00    20.54    81.79    20.42
WUMSWITSDSU1331392020110 01                     87.     543.     71.2    12.29
 1.54     7.51    13.83     0.00    32.00     2.78    10.29    18.96
WUMSWITSDSU1332392020110 01                    183.     876.     54.6    14.17
 1.54    13.76    15.71     0.00    32.00     5.86    19.62    22.40
WUMSWITSDSU1341392010210 01                    113.     705.     71.2    12.32
 1.54     9.77    13.86     0.00    32.00     3.62    13.39    18.99
WUMSWITSDSU1342392010210 01                    113.     705.     71.2    12.73
 1.54    10.06    14.27     0.00    32.00     3.62    13.67    19.40
MAPP  TSDSU1132252020110 01                     30.     168.     63.9    12.40
 1.54     2.34    13.94     0.00    26.40     0.79     3.13    18.66
MAPP  TSDSU1132252020210 01                     88.     492.     63.9    11.81
 1.54     6.57    13.35     0.00    32.00     2.82     9.39    19.07
MECS  TSEBU0441392020110 01                    320.    2383.     85.0     9.82
 1.54    27.07    11.36     0.00    32.00    10.24    37.31    15.66
ECAOOHTSEBU0441142020110 01                    509.    2849.     63.9    13.11
 1.54    41.74    14.65     0.00    32.00    16.29    58.04    20.37
ECAOOHTSEBU0442142020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACWPATSEBU0232032020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01                    211.    1458.     78.9    10.35
 1.54    17.33    11.89     0.00    26.40     5.57    22.90    15.71
NENG  TSEBU2841012020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.30     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.466

Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACASCTSEBU0641102020110 01 | 250. | 1728. | 78.9 | 14.03 | 1.54 | 26.91 | 15.57 | 0.00 | 32.00 | 8.00 | 34.91 | 20.20 |
| VACASCTSEBU0641102020310 01 | 432. | 3217. | 85.0 | 13.52 | 1.54 | 48.46 | 15.06 | 0.00 | 32.00 | 13.82 | 62.28 | 19.36 |
| SOU ALTSEBU0632232020110 01 | 135. | 646. | 54.6 | 13.26 | 1.54 | 9.56 | 14.80 | 0.00 | 32.00 | 4.32 | 13.88 | 21.49 |
| SOU ALTSEBU0641232020210 01 | 857. | 6381. | 85.0 | 11.65 | 1.54 | 84.18 | 13.19 | 0.00 | 32.00 | 27.42 | 111.60 | 17.49 |
| SOU ALTSEBU0642232020110 01 | 224. | 1397. | 71.2 | 13.30 | 1.54 | 20.73 | 14.84 | 0.00 | 32.00 | 7.17 | 27.90 | 19.97 |
| MAPPNDTSELU0742312010110 02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312020110 02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 | 957. | 7126. | 85.0 | 11.29 | 1.54 | 91.40 | 12.83 | 0.00 | 26.70 | 25.55 | 116.95 | 16.41 |
| MANO TSESU0441172010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172020310 01 | 187. | 1392. | 85.0 | 10.30 | 1.54 | 16.49 | 11.84 | 0.00 | 32.00 | 5.98 | 22.47 | 16.14 |
| MAPP TSESU1141261010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| SOU TSESU0641111020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 |
| SOU TSESU0641112020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 14.60 | 0.00 | 0.00 | 0.00 |
| SOU TSESU0641112020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 |
| SPPN TSESU1741282020110 01 | 235. | 1750. | 85.0 | 9.08 | 1.54 | 18.58 | 10.62 | 0.00 | 22.40 | 5.26 | 23.85 | 13.63 |
| ECAO TSFBU0431142020210 01 | 252. | 1410. | 63.9 | 14.62 | 1.54 | 22.79 | 16.16 | 0.00 | 32.00 | 8.06 | 30.86 | 21.88 |
| ECAO TSFBU0432142020110 01 | 95. | 317. | 38.1 | 16.30 | 1.54 | 5.65 | 17.84 | 0.00 | 32.00 | 3.04 | 8.69 | 27.44 |
| ECAO TSFBU0432142020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSFBU0441142020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| ECAOINTSFBU0441201010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAOKYTSFBU0641201020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 |
| ECAOKYTSFBU0641202020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| ECAOWVTSFBU0641041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |

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ECAOWVTSFBU0641042020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.20     0.00     0.00     0.00
UPNY  TSFBU0131022020210 01                  266.    1981.     85.0    15.63
 1.54    34.02    17.17     0.00    32.00     8.51    42.53    21.47
NENG  TSFBU2832012020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01                 1674.   10442.     71.2    14.29
 1.54   165.24    15.83     0.00    29.70    49.72   214.96    20.59
SOU   TSFBU0642112020110 01                  320.     678.     24.2    16.13
 1.54    11.98    17.67     0.00    32.00    10.24    22.22    32.78
SPPN  TSFBU1742282020110 01                  135.     933.     78.9     9.85
 1.54    10.62    11.39     0.00    26.40     3.56    14.19    15.21
ECAO  TSFSU0441202020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.60     0.00     0.00     0.00
MECSMITSGBU0431392020110 01                  190.    1415.     85.0    10.03
 1.54    16.36    11.57     0.00    32.00     6.08    22.44    15.86
MECSMITSGBU0432391050210 01                   27.     129.     54.6    12.66
 1.54     1.84    14.20     0.00    26.40     0.71     2.55    19.72
MECSMITSGBU0441392020110 01                  945.    7037.     85.0     9.59
 1.54    78.29    11.13     0.00    32.00    30.24   108.53    15.42
ECAOOHTSGBU0441141010110 01                  230.     953.     47.3    13.76
 1.54    14.58    15.30     0.00    32.00     7.36    21.94    23.02
ECAOOHTSGBU0441142020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.40     0.00     0.00     0.00
MACS  TSGBU0241082020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
WUMSWITSGBU1231392020110 01                  166.    1035.     71.2    10.30
 1.54    12.26    11.84     0.00    32.00     5.31    17.57    16.97
WUMSWITSGBU1232392020310 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MANOILTSGBU0431192020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOILTSGBU0432192020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTSGBU0511271040310 01                   14.     104.     85.0    10.02
 1.54     1.21    11.56     0.00    32.00     0.45     1.65    15.86
MANOMOTSGBU0511272020710 01                    2.      15.     85.0    10.00
 1.54     0.17    11.54     0.00    32.00     0.06     0.24    15.84
MANOMOTSGBU0531272040310 01                   57.     394.     78.9    10.03
 1.54     4.56    11.57     0.00    32.00     1.82     6.38    16.20
MAPP  TSGBU1132271010110 01                   76.     425.     63.9    10.84
 1.54     5.27    12.38     0.00    26.40     2.01     7.27    17.10
MAPP  TSGBU1132272020110 01                   39.     218.     63.9    11.16
 1.54     2.77    12.70     0.00    32.00     1.25     4.02    18.42
MAPP  TSGBU1132272020210 01                   78.     436.     63.9    11.21
 1.54     5.56    12.75     0.00    29.40     2.29     7.86    18.00
MAPP  TSGBU1141272020210 01                  142.     981.     78.9    10.18
 1.54    11.50    11.72     0.00    32.00     4.54    16.05    16.35
UPNY  TSGBU0141022020210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01                  526.    3281.     71.2    13.96
 1.54    50.85    15.50     0.00    32.00    16.83    67.68    20.63
VACANCTSGBU0642101020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
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MECS TSIBU0441392020110 01 103. 767. 85.0 10.26
1.54 9.05 11.80 0.00 26.40 2.72 11.77 15.34
MECS TSIBU0442392020110 01 236. 1631. 78.9 11.62
1.54 21.47 13.16 0.00 32.00 7.55 29.02 17.79
ECAO TSISU0441171010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
MAPP TSISU1132262020110 01 242. 1354. 63.9 12.30
1.54 18.74 13.84 0.00 32.00 7.74 26.48 19.56
MAPP TSISU1132262020310 01 138. 772. 63.9 11.70
1.54 10.22 13.24 0.00 32.00 4.42 14.64 18.96
MAPP TSISU1142262020110 01 454. 2540. 63.9 11.67
1.54 33.56 13.21 0.00 32.00 14.53 48.09 18.93
MAPPWITSISU1341392020110 01 377. 2606. 78.9 10.76
1.54 32.04 12.30 0.00 26.40 9.95 41.99 16.11
ENTGMOTSISU0541271010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 28.60 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 560. 3870. 78.9 10.62
1.54 47.05 12.16 0.00 32.00 17.92 64.97 16.79
WUMS TSJBU0431392020110 01 177. 1104. 71.2 10.55
1.54 13.35 12.09 0.00 26.40 4.67 18.02 16.32
WUMS TSJBU0431392020310 01 37. 256. 78.9 10.38
1.54 3.05 11.92 0.00 32.00 1.18 4.23 16.55
WUMS TSJBU0432392020310 01 116. 724. 71.2 10.63
1.54 8.81 12.17 0.00 32.00 3.71 12.52 17.30
MANO TSJBU0432252020210 01 96. 537. 63.9 10.70
1.54 6.57 12.24 0.00 32.00 3.07 9.65 17.96
MANO TSJBU0441252020110 01 372. 2571. 78.9 9.96
1.54 29.58 11.50 0.00 32.00 11.90 41.48 16.13
MANO TSJBU0441252020210 01 428. 2533. 67.6 10.52
1.54 30.57 12.06 0.00 22.40 9.59 40.15 15.85
SPPNMOTSJBU0541281010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
MECS TSKBU0412391020710 01 21. 156. 85.0 12.48
1.54 2.19 14.02 0.00 32.00 0.67 2.86 18.31
MECS TSKBU0412391050710 01 15. 112. 85.0 11.98
1.54 1.51 13.52 0.00 26.40 0.40 1.91 17.06
ECAO TSKBU0441042020110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 28.50 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 161. 901. 63.9 12.83
1.54 12.94 14.37 0.00 32.00 5.15 18.10 20.09
ECAOINTSKBU0432182020210 01 56. 313. 63.9 12.98
1.54 4.55 14.52 0.00 32.00 1.79 6.34 20.24
WUMS TSKBU0411391020710 01 47. 350. 85.0 10.38
1.54 4.17 11.92 0.00 29.50 1.39 5.56 15.88
MANO TSKBU0441181010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
MANO TSKBU0441182020110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 26.40 0.00 0.00 0.00
VACANCTSKBU0632102020210 01 322. 1541. 54.6 16.33
1.54 27.54 17.87 0.00 32.00 10.30 37.85 24.56
VACANCTSKBU0641102020210 01 266. 1488. 63.9 14.30
1.54 23.58 15.84 0.00 32.00 8.51 32.09 21.56
MAPP TSKSU1141261010110 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 32.00 0.00 0.00 0.00
MECSMITSLBU0432152020110 01 318. 1779. 63.9 14.95
1.54 29.33 16.49 0.00 29.30 9.32 38.65 21.72
MECSMITSLBU0441152020110 01 156. 978. 71.6 13.32
1.54 14.53 14.86 0.00 26.40 4.12 18.65 19.07
ECAO TSLBU0231052020110 01 98. 548. 63.9 9.97
1.54 6.31 11.51 0.00 32.00 3.14 9.45 17.23

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 0.00     0.00     0.00     0.00    19.60     1.27     1.27     0.00
MECS  STGAU0412   000000 00                    20.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.43     0.43     0.00
MECS  STGAU0421   000000 00                    44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.94     0.94     0.00
ECAO  STGAU0211   000000 00                    35.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.75     0.75     0.00
ECAO  STGAU0221   000000 00                    88.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.88     1.88     0.00
ECAO  STGAU0411   000000 00                     6.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     0.12     0.12     0.00
ECAO  STGAU0421   000000 00                   308.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     6.59     6.59     0.00
ECAO  STGAU0611   000000 00                    58.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.24     1.24     0.00
ERCTTXSTGAU2011   000000 00                    96.     101.     12.0    30.94
 2.57     3.39    33.51     0.00    21.40     2.05     5.45    53.81
ERCTTXSTGAU2021   000000 00                    78.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.67     1.67     0.00
ERCTTXSTGAU2211   000000 00                    12.      13.     12.0    30.94
 2.57     0.42    33.51     0.00    21.40     0.26     0.68    53.81
ERCTTXSTGAU2221   000000 00                    30.      32.     12.0    30.94
 2.57     1.06    33.51     0.00    21.40     0.64     1.70    53.81
ERCTTXSTGAU2511   000000 00                   144.     152.     12.0    30.94
 2.57     5.09    33.51     0.00    21.40     3.08     8.17    53.81
ERCTTXSTGAU2521   000000 00                   205.     216.     12.0    30.94
 2.57     7.24    33.51     0.00    21.40     4.39    11.63    53.81
ERCTTXSTGAU2711   000000 00                    11.      12.     12.0    30.94
 2.57     0.39    33.51     0.00    10.70     0.12     0.51    43.66
MACE  STGAU0111   000000 00                    26.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.56     0.56     0.00
MACE  STGAU0121   000000 00                    54.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.16     1.16     0.00
MACE  STGAU0211   000000 00                    12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.26     0.26     0.00
MACE  STGAU0221   000000 00                    60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.64     0.64     0.00
WUMS  STGAU0412   000000 00                    18.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.39     0.39     0.00
WUMSWISTGAU1311   000000 00                    73.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     1.52     1.52     0.00
WUMSWISTGAU1321   000000 00                    58.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.24     1.24     0.00
MANO  STGAU0411   000000 00                    37.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.79     0.79     0.00
MANO  STGAU0421   000000 00                   377.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     8.07     8.07     0.00
MANOMOSTGAU0511   000000 00                    70.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.50     1.50     0.00
MAPP  STGAU1111   000000 00                   151.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     3.23     3.23     0.00
MAPP  STGAU1112   000000 00                    20.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.43     0.43     0.00
MAPP  STGAU1121   000000 00                   159.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     3.40     3.40     0.00
MAPPMOSTGAU0511   000000 00                    34.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.73     0.73     0.00
MAPPNESTGAU1411   000000 00                    19.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.41     0.41     0.00
MAPPWISTGAU1311   000000 00                    29.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.62     0.62     0.00
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SPPS  STGAU3621   000000 00                    80.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.71     1.71     0.00
SPPSMSSTGAU1611   000000 00                    49.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.05     1.05     0.00
SPPSTXSTGAU2211   000000 00                    50.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.07     1.07     0.00
SPPSTXSTGAU2511   000000 00                    23.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.49     0.49     0.00
SPPSTXSTGAU2521   000000 00                    48.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.03     1.03     0.00
SPPSTXSTGAU3511   000000 00                    22.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.24     0.24     0.00
CALI  STGAU0811   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
CALI  STGAU0821   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
AZNM  STGAU0811   000000 00                    30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.64     0.64     0.00
AZNM  STGAU0821   000000 00                    76.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.63     1.63     0.00
RMPA  STGAU0811   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
RMPA  STGAU0821   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
NWPE  STGAU0822   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MECS  STHSU0411   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MECS  STHSU0421   000000 00                  1035.    1623.     17.9    30.14
 2.57    53.10    32.71     0.00    17.10    17.70    70.79    43.61
MECS  STHSU0422   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.60     0.00     0.00     0.00
ERCTTXSTHSU1821   000000 00                  2984.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.20    60.28    60.28     0.00
ERCTTXSTHSU2021   000000 00                   893.     941.     12.0    29.04
 2.57    29.75    31.61     0.00    20.60    18.39    48.14    51.15
ERCTTXSTHSU2221   000000 00                  3693.    4520.     14.0    28.57
 2.57   140.76    31.14     0.00    20.00    73.86   214.62    47.48
ERCTTXSTHSU2321   000000 00                   356.     657.     21.1    28.90
 2.57    20.68    31.47     0.00    19.70     7.01    27.69    42.15
ERCTTXSTHSU2421   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.20     0.00     0.00     0.00
ERCTTXSTHSU2521   000000 00                  2276.    6105.     30.6    28.47
 2.57   189.48    31.04     0.00    20.40    46.43   235.91    38.64
MACE  STHSU0112   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MACE  STHSU0121   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MACE  STHSU0211   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MACE  STHSU0221   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.00     0.00     0.00
MACE  STHSU0222   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.00     0.00     0.00
MACW  STHSU0221   000000 00                  1592.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    31.36    31.36     0.00
MACS  STHSU0222   000000 00                   550.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    10.84    10.84     0.00
DSNY  STHSU0121   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
LILC  STHSU0121   000000 00                   640.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60    13.19    13.19     0.00
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| Unit Name | | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total Costs Capital MMUS$ | FOM MMUS$ | Total MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENG | STHSU0122 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 |
| NENG | STHSU0921 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 |
| NENG | STHSU0922 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 |
| NENG | STHSU2821 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 20.30 | 0.00 | 0.00 |
| NENG | STHSU2822 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 20.20 | 0.00 | 0.00 |
| NENGCT | STHSU3221 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 |
| NENGCT | STHSU3222 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 0.00 | 0.00 |
| NENGNH | STHSU2922 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 0.00 | 0.00 |
| FRCCFL | STHSU1511 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 |
| FRCCFL | STHSU1521 | 000000 00 | 828. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.00 | 17.39 | 17.39 |
| FRCCFL | STHSU1522 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 |
| SOU | STHSU0621 | 000000 00 | 79. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.69 | 1.69 |
| SOU | STHSU0622 | 000000 00 | 40. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.86 | 0.86 |
| ENTGMS | STHSU1621 | 000000 00 | 761. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 14.99 | 14.99 |
| ENTGTX | STHSU2721 | 000000 00 | 485. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 15.70 | 7.61 | 7.61 |
| ENTGTX | STHSU3421 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 20.80 | 0.00 | 0.00 |
| SPPN | STHSU1711 | 000000 00 | 9. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.19 | 0.19 |
| SPPN | STHSU1712 | 000000 00 | 38. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 20.50 | 0.78 | 0.78 |
| SPPN | STHSU1721 | 000000 00 | 1104. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.20 | 23.40 | 23.40 |
| SPPN | STHSU1722 | 000000 00 | 362. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 20.50 | 7.42 | 7.42 |
| CALI | STHSU0821 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 |
| CALI | STHSU0822 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 |
| RMPA | STHSU0812 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 |
| RMPA | STHSU0822 | 000000 00 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 |

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ECAO  STLSU0222   000000 00                    44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.94     0.94     0.00
ECAO  STLSU0411   000000 00                    25.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.54     0.54     0.00
ECAO  STLSU0421   000000 00                   100.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.14     2.14     0.00
ERCTTXSTLSU1821   000000 00                  2829.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    58.84    58.84     0.00
ERCTTXSTLSU1822   000000 00                   352.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     7.53     7.53     0.00
ERCTTXSTLSU2011   000000 00                    16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.34     0.34     0.00
ERCTTXSTLSU2012   000000 00                    35.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.75     0.75     0.00
ERCTTXSTLSU2021   000000 00                   285.     225.      9.0    29.94
 2.57     7.32    32.51     0.00    20.70     5.90    13.22    58.69
ERCTTXSTLSU2022   000000 00                  1120.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.70    23.18    23.18     0.00
ERCTTXSTLSU2122   000000 00                  1066.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    21.00    21.00     0.00
ERCTTXSTLSU2212   000000 00                   126.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.70     2.70     0.00
ERCTTXSTLSU2221   000000 00                  4296.    4529.     12.0    29.55
 2.57   145.45    32.12     0.00    20.60    88.50   233.94    51.66
ERCTTXSTLSU2222   000000 00                  1942.     358.      2.1    33.09
 2.57    12.76    35.66     0.00    20.80    40.39    53.15   148.53
ERCTTXSTLSU2321   000000 00                   405.     747.     21.1    29.19
 2.57    23.74    31.76     0.00    19.70     7.98    31.72    42.43
ERCTTXSTLSU2322   000000 00                   146.     154.     12.0    32.30
 2.57     5.37    34.87     0.00    19.70     2.88     8.24    53.56
ERCTTXSTLSU2422   000000 00                    87.      69.      9.0    32.15
 2.57     2.39    34.72     0.00    21.40     1.86     4.25    61.79
ERCTTXSTLSU2511   000000 00                    11.      12.     12.0    30.94
 2.57     0.39    33.51     0.00    21.40     0.24     0.62    53.81
ERCTTXSTLSU2512   000000 00                    75.      79.     12.0    33.57
 2.57     2.86    36.14     0.00    21.40     1.60     4.46    56.44
ERCTTXSTLSU2521   000000 00                   726.    1022.     16.1    30.49
 2.57    33.77    33.06     0.00    20.20    14.67    48.44    47.41
ERCTTXSTLSU2522   000000 00                   386.     407.     12.0    33.61
 2.57    14.72    36.18     0.00    21.10     8.14    22.87    56.20
ERCTTXSTLSU3521   000000 00                   204.     376.     21.1    29.92
 2.57    12.23    32.49     0.00    19.70     4.02    16.25    43.17
ERCTTXSTLSU3522   000000 00                   111.     117.     12.0    32.32
 2.57     4.08    34.89     0.00    19.70     2.19     6.27    53.58
MACE  STLSU0121   000000 00                  1214.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    25.98    25.98     0.00
MACE  STLSU0122   000000 00                   558.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    11.94    11.94     0.00
MACE  STLSU0221   000000 00                   493.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    10.55    10.55     0.00
MACE  STLSU0222   000000 00                   884.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.00    17.68    17.68     0.00
MACS  STLSU0221   000000 00                   612.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    15.70     9.61     9.61     0.00
MACS  STLSU0222   000000 00                  1492.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10    29.99    29.99     0.00
MANO  STLSU0412   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.24     0.24     0.00
MANO  STLSU0421   000000 00                  2866.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.00    54.45    54.45     0.00
MAPP  STLSU0711   000000 00                    18.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.39     0.39     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.471
Total Annual Costs
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ENTG  STLSU1021   000000 00                    3566.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10    71.67    71.67     0.00
ENTG  STLSU1022   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00                    532.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    10.48    10.48     0.00
SPPNMOSTLSU0512   000000 00                     16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.34     0.34     0.00
SPPNMOSTLSU0521   000000 00                     44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    15.70     0.69     0.69     0.00
SPPS  STLSU0821   000000 00                    314.     331.     12.0    28.57
 2.57    10.31    31.14     0.00    21.40     6.72    17.03    51.44
SPPS  STLSU0822   000000 00                     71.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.52     1.52     0.00
SPPS  STLSU1011   000000 00                     37.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     0.77     0.77     0.00
SPPS  STLSU1012   000000 00                    140.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10     2.81     2.81     0.00
SPPS  STLSU1021   000000 00                   1721.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.30    34.94    34.94     0.00
SPPS  STLSU1022   000000 00                    649.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    13.50    13.50     0.00
SPPS  STLSU3612   000000 00                     24.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.51     0.51     0.00
SPPS  STLSU3621   000000 00                   4755.    5013.     12.0    28.17
 2.57   154.09    30.74     0.00    20.10    95.58   249.66    49.81
SPPS  STLSU3622   000000 00                    805.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.30    17.15    17.15     0.00
SPPSMSSTLSU1612   000000 00                     30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.64     0.64     0.00
SPPSTXSTLSU2221   000000 00                   1219.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.00    24.38    24.38     0.00
SPPSTXSTLSU2222   000000 00                    127.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.72     2.72     0.00
SPPSTXSTLSU2521   000000 00                   1134.     379.      3.8    28.74
 2.57    11.86    31.31     0.00    20.30    23.02    34.88    92.07
SPPSTXSTLSU2522   000000 00                    255.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     5.46     5.46     0.00
SPPSTXSTLSU3522   000000 00                     54.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     1.06     1.06     0.00
CALI  STLSU0821   000000 00                   5179.    4453.      9.8    30.34
 2.57   146.55    32.91     0.00    20.90   108.24   254.79    57.21
CALI  STLSU0822   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
PNW   STLSU0721   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    15.70     0.00     0.00     0.00
AZNM  STLSU0812   000000 00                     39.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.83     0.83     0.00
AZNM  STLSU0821   000000 00                   1054.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.10    22.24    22.24     0.00
AZNM  STLSU0822   000000 00                    815.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    17.44    17.44     0.00
AZNMTXSTLSU2621   000000 00                    266.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     5.69     5.69     0.00
NWPE  STLSU0821   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10     0.00     0.00     0.00
NWPE  STLSU0822   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | NUKE | 00 | 7000000 | 00 | | 561. | 4481. | 91.2 | 4.43 | |
| 0.82 | 23.53 | 5.25 | 0.00 | 176.10 | | 98.79 | 122.32 | 27.30 | | |
| NENG | NUKE | 00 | 8000000 | 00 | | 675. | 5326. | 90.1 | 4.14 | |
| 1.32 | 29.09 | 5.46 | 0.00 | 254.10 | | 171.52 | 200.61 | 37.67 | | |
| MAPP | NUKE | 00 | 7000000 | 00 | | 529. | 4265. | 92.0 | 4.38 | |
| 0.59 | 21.21 | 4.97 | 0.00 | 95.60 | | 50.57 | 71.78 | 16.83 | | |
| MANO | NUKE | 00 | 8000000 | 00 | | 1072. | 8508. | 90.6 | 4.08 | |
| 1.32 | 45.96 | 5.40 | 0.00 | 184.60 | | 197.89 | 243.85 | 28.66 | | |
| SPPN | NUKE | 00 | 7000000 | 00 | | 1182. | 9752. | 94.2 | 3.97 | |
| 0.56 | 44.21 | 4.53 | 0.00 | 142.90 | | 168.91 | 213.12 | 21.85 | | |
| MACE | NUKE | 00 | 7000000 | 00 | | 1155. | 9162. | 90.6 | 4.39 | |
| 0.98 | 49.18 | 5.37 | 0.00 | 191.50 | | 221.18 | 270.37 | 29.51 | | |
| MACE | NUKE | 00 | 8000000 | 00 | | 1112. | 9055. | 93.0 | 4.25 | |
| 0.64 | 44.26 | 4.89 | 0.00 | 165.10 | | 183.59 | 227.85 | 25.16 | | |
| MACE | NUKE | 00 | 8000000 | 00 | | 1109. | 9127. | 94.0 | 4.29 | |
| 0.64 | 45.01 | 4.93 | 0.00 | 165.10 | | 183.10 | 228.11 | 24.99 | | |
| VACA | NUKE | 00 | 8000000 | 00 | | 701. | 5783. | 94.2 | 4.14 | |
| 0.51 | 26.87 | 4.65 | 0.00 | 137.70 | | 96.53 | 123.40 | 21.34 | | |
| VACA | NUKE | 00 | 8000000 | 00 | | 854. | 6674. | 89.2 | 4.24 | |
| 0.66 | 32.68 | 4.90 | 0.00 | 147.10 | | 125.62 | 158.31 | 23.72 | | |
| VACA | NUKE | 00 | 8000000 | 00 | | 854. | 7079. | 94.6 | 4.20 | |
| 0.66 | 34.39 | 4.86 | 0.00 | 147.10 | | 125.62 | 160.01 | 22.60 | | |
| CALI | NUKE | 00 | 7000000 | 00 | | 1086. | 9079. | 95.4 | 4.02 | |
| 0.86 | 44.34 | 4.88 | 0.00 | 190.30 | | 206.67 | 251.01 | 27.65 | | |
| NENG | NUKE | 00 | 7000000 | 00 | | 506. | 4237. | 95.6 | 4.12 | |
| 1.18 | 22.46 | 5.30 | 0.00 | 240.70 | | 121.79 | 144.25 | 34.04 | | |
| VACA | NUKE | 00 | 8000000 | 00 | | 909. | 7321. | 91.9 | 4.10 | |
| 0.46 | 33.37 | 4.56 | 0.00 | 134.20 | | 121.99 | 155.35 | 21.22 | | |
| ENTG | NUKE | 00 | 8000000 | 00 | | 1141. | 9483. | 94.9 | 4.29 | |
| 0.67 | 47.03 | 4.96 | 0.00 | 181.60 | | 207.21 | 254.23 | 26.81 | | |
| TVA | NUKE | 00 | 7000000 | 00 | | 2429. | 18386. | 86.4 | 4.25 | |
| 0.32 | 83.93 | 4.57 | 0.00 | 109.50 | | 265.98 | 349.91 | 19.03 | | |
| TVA | NUKE | 00 | 7000000 | 00 | | 1244. | 10506. | 96.4 | 4.25 | |
| 0.32 | 47.96 | 4.57 | 0.00 | 109.50 | | 136.22 | 184.18 | 17.53 | | |
| AZNM | NUKE | 00 | 7000000 | 00 | | 1255. | 10272. | 93.4 | 4.33 | |
| 0.42 | 48.78 | 4.75 | 0.00 | 84.20 | | 105.67 | 154.45 | 15.04 | | |
| AZNM | NUKE | 00 | 7000000 | 00 | | 1310. | 10334. | 90.1 | 4.27 | |
| 0.42 | 48.50 | 4.69 | 0.00 | 84.20 | | 110.30 | 158.80 | 15.37 | | |
| MACS | NUKE | 00 | 9000000 | 00 | | 875. | 7212. | 94.1 | 4.42 | |
| 0.61 | 36.27 | 5.03 | 0.00 | 161.00 | | 140.88 | 177.14 | 24.56 | | |
| MACS | NUKE | 00 | 9000000 | 00 | | 850. | 6854. | 92.0 | 4.43 | |
| 0.61 | 34.52 | 5.04 | 0.00 | 161.00 | | 136.85 | 171.37 | 25.00 | | |
| VACA | NUKE | 00 | 7000000 | 00 | | 915. | 7772. | 97.0 | 4.08 | |
| 0.42 | 34.95 | 4.50 | 0.00 | 132.10 | | 120.87 | 155.82 | 20.05 | | |
| VACA | NUKE | 00 | 7000000 | 00 | | 904. | 7575. | 95.7 | 4.26 | |
| 0.42 | 35.46 | 4.68 | 0.00 | 132.10 | | 119.42 | 154.88 | 20.45 | | |
| MANO | NUKE | 00 | 7000000 | 00 | | 1182. | 10014. | 96.7 | 4.19 | |
| 0.51 | 47.07 | 4.70 | 0.00 | 91.60 | | 108.27 | 155.34 | 15.51 | | |
| MANO | NUKE | 00 | 7000000 | 00 | | 1175. | 9929. | 96.5 | 4.19 | |
| 0.51 | 46.67 | 4.70 | 0.00 | 91.60 | | 107.63 | 154.30 | 15.54 | | |
| MANO | NUKE | 00 | 7000000 | 00 | | 1255. | 10267. | 93.4 | 4.23 | |
| 0.50 | 48.59 | 4.73 | 0.00 | 138.40 | | 173.69 | 222.28 | 21.65 | | |
| MANO | NUKE | 00 | 7000000 | 00 | | 1222. | 10139. | 94.7 | 4.15 | |
| 0.50 | 47.12 | 4.65 | 0.00 | 88.40 | | 108.02 | 155.15 | 15.30 | | |
| MANO | NUKE | 00 | 7000000 | 00 | | 1128. | 9644. | 97.6 | 4.31 | |
| 0.78 | 49.07 | 5.09 | 0.00 | 162.50 | | 183.30 | 232.37 | 24.10 | | |
| MANO | NUKE | 00 | 7000000 | 00 | | 1131. | 9318. | 94.0 | 4.36 | |
| 0.78 | 47.91 | 5.14 | 0.00 | 162.50 | | 183.79 | 231.70 | 24.87 | | |
| VACA | NUKE | 00 | 7000000 | 00 | | 1140. | 9496. | 95.1 | 4.10 | |
| 0.47 | 43.43 | 4.57 | 0.00 | 133.40 | | 152.08 | 195.51 | 20.59 | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.473
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ENTG  NUKE 00    7000000 00                    893.    7089.     90.6     4.51
 0.56    35.94     5.07     0.00   166.00   148.24   184.17    25.98
MANO  NUKE 00    7000000 00                    850.    7070.     95.0     4.53
 0.86    38.13     5.39     0.00   196.50   167.03   205.16    29.02
MANO  NUKE 00    7000000 00                    855.    7096.     94.7     4.46
 0.94    38.28     5.40     0.00   188.00   160.74   199.02    28.05
MANO  NUKE 00    7000000 00                    855.    6774.     90.4     4.46
 0.94    36.60     5.40     0.00   188.00   160.74   197.34    29.13
DSNY  NUKE 00    8000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCT  NUKE 00    7000000 00                   1241.    9745.     89.6     4.30
 0.52    46.99     4.82     0.00    81.80   101.51   148.51    15.24
MECS  NUKE 00    8000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    7000000 00                   1110.    8748.     90.0     5.24
 0.75    52.38     5.99     0.00   109.80   121.88   174.26    19.92
MAPP  NUKE 00    7000000 00                    597.    4475.     85.6     4.25
 0.70    22.17     4.95     0.00   109.60    65.43    87.60    19.57
MAPP  NUKE 00    7000000 00                    530.    4106.     88.4     4.37
 0.59    20.38     4.96     0.00   145.60    77.17    97.55    23.76
MAPP  NUKE 00    7000000 00                    571.    4400.     88.0     4.33
 1.20    24.34     5.53     0.00   232.50   132.76   157.09    35.71
MACE  NUKE 00    8000000 00                    605.    4325.     81.6     4.37
 1.32    24.61     5.69     0.00   254.60   154.03   178.64    41.31
MACE  NUKE 00    7000000 00                   1150.    9049.     89.8     4.35
 0.98    48.23     5.33     0.00   191.50   220.22   268.45    29.67
DSNY  NUKE 00    7000000 00                    967.    6289.     74.2     4.12
 1.25    33.76     5.37     0.00   237.60   229.76   263.52    41.90
UPNY  NUKE 00    8000000 00                    619.    4396.     81.1     4.37
 1.07    23.92     5.44     0.00   206.50   127.82   151.74    34.52
UPNY  NUKE 00    7000000 00                   1154.    9094.     90.0     4.37
 0.78    46.85     5.15     0.00   117.70   135.83   182.67    20.09
VACA  NUKE 00    8000000 00                    854.    5966.     79.8     4.21
 0.66    29.07     4.87     0.00   147.10   125.62   154.69    25.93
CALI  NUKE 00    7000000 00                   1096.    8391.     87.4     4.02
 0.86    40.98     4.88     0.00   190.30   208.57   249.55    29.74
PNW   NUKE 00    7000000 00                   1123.    8851.     90.0     4.10
 0.66    42.09     4.76     0.00   153.70   172.61   214.70    24.26
VACA  NUKE 00    8000000 00                    891.    6764.     86.7     4.10
 0.46    30.83     4.56     0.00   134.20   119.57   150.40    22.23
WUMS  NUKE 00    8000000 00                    512.    3873.     86.4     4.23
 0.98    20.19     5.21     0.00   195.70   100.20   120.39    31.08
WUMS  NUKE 00    8000000 00                    514.    3928.     87.2     4.28
 0.98    20.64     5.26     0.00   195.70   100.59   121.23    30.86
NENG  NUKE 00    8000000 00                    872.    6860.     89.8     4.13
 1.17    36.37     5.30     0.00   211.90   184.78   221.15    32.24
NENG  NUKE 00    8000000 00                   1157.    9120.     90.0     4.05
 1.23    48.20     5.28     0.00   158.10   182.92   231.12    25.34
ECAO  NUKE 00    8000000 00                   1017.    6679.     75.0     4.36
 1.14    36.76     5.50     0.00   206.80   210.32   247.07    36.99
ECAO  NUKE 00    8000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00                    851.    5956.     79.9     4.48
 0.65    30.53     5.13     0.00   150.80   128.33   158.87    26.67
SOU   NUKE 00    7000000 00                    860.    6777.     90.0     4.48
 0.65    34.75     5.13     0.00   150.80   129.69   164.44    24.26
AZNM  NUKE 00    7000000 00                   1259.    9926.     90.0     4.25
 0.42    46.34     4.67     0.00    84.20   106.01   152.35    15.35
VACA  NUKE 00    7000000 00                    940.    7049.     85.6     4.12
 0.53    32.78     4.65     0.00    99.90    93.91   126.68    17.97
ECAO  NUKE 00    7000000 00                   1238.    9759.     90.0     4.18
 0.60    46.62     4.78     0.00   109.60   135.68   182.31    18.68
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DSNY  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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MACS  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Nuclear                          7           99480.  791824.     90.9     4.29
 0.65  3911.45     4.94     0.00   141.53 14079.09 17990.54    22.72

MECS  HYDRO00     000000 00                   158.    1013.     73.2     0.00
 0.00     0.00     0.00     0.00    15.40     2.43     2.43     2.40
ECAO  HYDRO00     000000 00                  1109.    2974.     30.6     0.00
 0.00     0.00     0.00     0.00    15.00    16.64    16.64     5.59
ERCT  HYDRO00     000000 00                   356.     796.     25.5     0.00
 0.00     0.00     0.00     0.00    15.50     5.52     5.52     6.93
MACE  HYDRO00     000000 00                   522.    4115.     90.0     0.00
 0.00     0.00     0.00     0.00    15.50     8.09     8.09     1.97
MACW  HYDRO00     000000 00                   649.    2144.     37.7     0.00
 0.00     0.00     0.00     0.00    14.90     9.67     9.67     4.51
MACS  HYDRO00     000000 00                    18.      59.     37.3     0.00
 0.00     0.00     0.00     0.00    15.50     0.28     0.28     4.74
WUMS  HYDRO00     000000 00                   354.    1683.     54.3     0.00
 0.00     0.00     0.00     0.00    15.40     5.45     5.45     3.24
MANO  HYDRO00     000000 00                   362.    1826.     57.6     0.00
 0.00     0.00     0.00     0.00    15.50     5.61     5.61     3.07
MAPP  HYDRO00     000000 00                  3204.    9989.     35.6     0.00
 0.00     0.00     0.00     0.00    15.40    49.34    49.34     4.94
UPNY  HYDRO00     000000 00                  5551.   25889.     53.2     0.00
 0.00     0.00     0.00     0.00    15.50    86.04    86.04     3.32
DSNY  HYDRO00     000000 00                   442.    2061.     53.2     0.00
 0.00     0.00     0.00     0.00    14.60     6.45     6.45     3.13
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 1.03     0.17    33.27     0.00    19.90     0.14     0.31    60.21
ERCTTXCC   2322   000000 00                  4495.   30562.     77.6    21.71
 1.03   695.09    22.74     0.00    13.90    62.48   757.57    24.79
ERCTTXCC   2513   000000 00                    22.      39.     20.2    27.71
 1.03     1.12    28.74     0.00    19.90     0.44     1.56    39.98
ERCTTXCC   2514   000000 00                     3.       2.      8.4    34.43
 1.03     0.08    35.46     0.00    19.90     0.06     0.14    62.40
ERCTTXCC   2523   000000 00                   103.     182.     20.2    27.71
 1.03     5.24    28.74     0.00    19.90     2.05     7.29    39.98
ERCTTXCC   2524   000000 00                    36.      27.      8.4    34.43
 1.03     0.94    35.46     0.00    19.90     0.72     1.66    62.40
ERCTTXCC   2722   000000 00                  8847.   57296.     73.9    21.69
 1.03  1301.77    22.72     0.00    13.90   122.97  1424.75    24.87
ERCTTXCC   3522   000000 00                  2623.   20773.     90.4    21.69
 1.03   471.92    22.72     0.00    13.90    36.46   508.38    24.47
ERCTTXCC   3523   000000 00                   258.     191.      8.4    32.24
 1.03     6.34    33.27     0.00    13.90     3.59     9.93    52.09
MACE  CC   0122   000000 00                  3085.   11758.     43.5    25.69
 1.03   314.11    26.72     0.00    13.90    42.88   356.99    30.36
MACE  CC   0123   000000 00                   762.     539.      8.1    34.47
 1.03    19.13    35.50     0.00    19.50    14.86    33.99    63.07
MACE  CC   0222   000000 00                  1287.    7644.     67.8    25.68
 1.03   204.18    26.71     0.00    13.90    17.89   222.07    29.05
MACE  CC   0224   000000 00                   224.      38.      2.0    38.13
 1.03     1.50    39.16     0.00    13.90     3.11     4.62   120.29
MACW  CC   0222   000000 00                  2689.    9581.     40.7    25.30
 1.03   252.24    26.33     0.00    13.90    37.38   289.62    30.23
MACS  CC   0222   000000 00                   142.     315.     25.3    28.00
 1.03     9.15    29.03     0.00    13.90     1.97    11.12    35.29
WUMSWICC   1322   000000 00                   307.    1094.     40.7    26.34
 1.03    29.94    27.37     0.00    13.90     4.27    34.20    31.27
MANO  CC   0413   000000 00                    20.      15.      8.4    34.31
 1.03     0.52    35.34     0.00    13.90     0.28     0.80    54.16
MANO  CC   0422   000000 00                  3078.    4647.     17.2    23.31
 1.03   113.12    24.34     0.00    13.90    42.78   155.91    33.55
MANOMOCC   0522   000000 00                   260.     309.     13.6    23.28
 1.03     7.50    24.31     0.00    13.90     3.61    11.12    36.02
MAPP  CC   0422   000000 00                   537.    1825.     38.8    21.29
 1.03    40.74    22.32     0.00    13.90     7.46    48.20    26.41
MAPP  CC   1113   000000 00                    43.      32.      8.4    31.15
 1.03     1.02    32.18     0.00    19.70     0.85     1.87    58.85
MAPP  CC   1122   000000 00                   451.     535.     13.6    22.31
 1.03    12.49    23.34     0.00    13.90     6.27    18.76    35.05
MAPP  CC   1123   000000 00                    89.      15.      2.0    31.10
 1.03     0.49    32.13     0.00    13.90     1.24     1.73   113.26
MAPP  CC   1124   000000 00                   102.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.50     1.99     1.99     0.00
MAPPNECC   1422   000000 00                   118.     579.     56.0    21.36
 1.03    12.97    22.39     0.00    13.90     1.64    14.61    25.22
UPNY  CC   0123   000000 00                    73.      22.      3.4    35.49
 1.03     0.79    36.52     0.00    13.90     1.01     1.80    83.62
DSNY  CC   0122   000000 00                  1830.   14493.     90.4    25.09
 1.03   378.50    26.12     0.00    13.90    25.44   403.94    27.87
DSNY  CC   0123   000000 00                   101.      75.      8.4    36.68
 1.03     2.81    37.71     0.00    13.90     1.40     4.22    56.53
NYC   CC   0122   000000 00                   490.    1746.     40.7    29.36
 1.03    53.06    30.39     0.00    13.90     6.81    59.87    34.30
NYC   CC   0123   000000 00                    78.      31.      4.5    40.71
 1.03     1.29    41.74     0.00    13.90     1.08     2.37    76.93
LILC  CC   0113   000000 00                    22.      26.     13.6    37.97
 1.03     1.02    39.00     0.00    19.90     0.44     1.46    55.76
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SOU   CC   0622   000000 00                10500.   76566.     83.2    22.70
 1.03  1817.22    23.73     0.00    13.90   145.95  1963.17    25.64
SOU FLCC   1522   000000 00                 500.    3960.     90.4    22.68
 1.03    93.87    23.71     0.00    13.90     6.95   100.82    25.46
SOU MSCC   1622   000000 00                1000.    7920.     90.4    22.68
 1.03   187.74    23.71     0.00    13.90    13.90   201.64    25.46
ENTG  CC   1022   000000 00                6669.   28674.     49.1    22.72
 1.03   680.96    23.75     0.00    13.90    92.70   773.66    26.98
ENTG  CC   1023   000000 00                 203.      35.      2.0    27.29
 1.03     0.99    28.32     0.00    19.90     4.04     5.02   144.47
ENTGMSCC   1622   000000 00                3835.   22779.     67.8    22.72
 1.03   540.96    23.75     0.00    13.90    53.31   594.26    26.09
ENTGMOCC   0522   000000 00                 225.     166.      8.4    22.72
 1.03     3.95    23.75     0.00    13.90     3.13     7.07    42.57
ENTGTXCC   2322   000000 00                 911.    1613.     20.2    22.72
 1.03    38.30    23.75     0.00    13.90    12.66    50.96    31.60
SPPNMOCC   0522   000000 00                1437.    5120.     40.7    21.19
 1.03   113.77    22.22     0.00    13.90    19.97   133.74    26.12
SPPS  CC   1022   000000 00                 912.    7223.     90.4    21.31
 1.03   161.34    22.34     0.00    13.90    12.68   174.02    24.09
SPPS  CC   3613   000000 00                  40.      30.      8.4    29.88
 1.03     0.91    30.91     0.00    19.40     0.78     1.69    57.17
SPPS  CC   3622   000000 00                6283.   27120.     49.3    21.57
 1.03   613.03    22.60     0.00    14.00    87.96   701.00    25.85
SPPS  CC   3623   000000 00                 219.     388.     20.2    28.26
 1.03    11.35    29.29     0.00    19.90     4.36    15.71    40.53
SPPS  CC   3624   000000 00                  39.       7.      2.0    40.33
 1.03     0.28    41.36     0.00    13.90     0.54     0.82   122.49
SPPSMSCC   1613   000000 00                  50.      77.     17.6    28.83
 1.03     2.30    29.86     0.00    19.80     0.99     3.29    42.73
SPPSTXCC   2322   000000 00                 745.    5900.     90.4    21.31
 1.03   131.80    22.34     0.00    13.90    10.36   142.15    24.09
SPPSTXCC   2722   000000 00                1140.    9028.     90.4    21.31
 1.03   201.68    22.34     0.00    13.90    15.85   217.52    24.09
SPPSTXCC   3522   000000 00                 551.    4364.     90.4    21.31
 1.03    97.48    22.34     0.00    13.90     7.66   105.14    24.09
CALI  CC   0812   000000 00                  40.     238.     67.8    27.99
 1.03     6.90    29.02     0.00    19.90     0.80     7.69    32.38
CALI  CC   0813   000000 00                  65.      11.      2.0    35.78
 1.03     0.41    36.81     0.00    19.40     1.26     1.67   150.04
CALI  CC   0822   000000 00                5856.   46377.     90.4    23.96
 1.03  1158.87    24.99     0.00    13.90    81.40  1240.27    26.74
CALI  CC   0823   000000 00                 513.     364.      8.1    32.90
 1.03    12.35    33.93     0.00    19.40     9.95    22.30    61.27
CALI  CC   0824   000000 00                 272.      47.      2.0    38.24
 1.03     1.83    39.27     0.00    19.90     5.41     7.24   155.42
PNW   CC   0722   000000 00                1512.   11974.     90.4    20.32
 1.03   255.66    21.35     0.00    13.90    21.02   276.67    23.11
PNW   CC   0723   000000 00                   0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     0.00     0.00     0.00
PNW   CC   0822   000000 00                1533.   12141.     90.4    20.94
 1.03   266.77    21.97     0.00    13.90    21.31   288.08    23.73
PNW   CC   0823   000000 00                   0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.90     0.00     0.00     0.00
AZNM  CC   0812   000000 00                  19.     113.     67.8    22.59
 1.03     2.67    23.62     0.00    13.90     0.26     2.93    25.96
AZNM  CC   0813   000000 00                  16.       3.      2.0    31.75
 1.03     0.09    32.78     0.00    19.90     0.32     0.41   148.93
AZNM  CC   0822   000000 00                8832.   68591.     88.7    21.54
 1.03  1548.40    22.57     0.00    13.90   122.76  1671.16    24.36
AZNM  CC   0823   000000 00                 510.    1383.     30.9    28.09
 1.03    40.26    29.12     0.00    19.50     9.95    50.21    36.31
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WUMS  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CC   8     (b)                            568.    2519.     50.6    21.89
 1.95    60.05    23.84    69.02    11.70    45.83   105.88    42.04
MANO  CC   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCC   5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCC   5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOCC   5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOCC   5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCC   19    (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCC   19    (b)                           3580.   28349.     90.4    20.40
 1.95   633.56    22.35    67.73    11.70   284.35   917.91    32.38
RMPA  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CC   8     (b)                           2525.   19993.     90.4    18.73
 1.95   413.51    20.68    70.56    11.70   207.70   621.22    31.07
CALI  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CC   8     (b)                           7700.   60968.     90.4    22.44
 1.95  1486.87    24.39    72.63    11.70   649.28  2136.15    35.04
ECAO  CC   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CC   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.479
Total Annual Costs
Year: 2015

| Unit | Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACE | CC | 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE | CC | 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | CC | 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | CC | 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS | CC | 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS | CC | 1 (b) | 433. | 2139. | 56.4 | 23.56 | 1.95 | 54.58 | 25.51 | 68.37 | 11.70 | 34.66 |
| FRCC | CC | 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC | CC | 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | CC | 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | CC | 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCC | | 6 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCC | | 6 (b) | 1750. | 8648. | 56.4 | 24.11 | 1.95 | 225.40 | 26.06 | 65.92 | 11.70 | 135.81 |
| TVA | CC | 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | CC | 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | CC | 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | CC | 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | CC | 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | CC | 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCC | | 5 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCC | | 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | CC | 1 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | CC | 1 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | CC | 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | CC | 8 (b) | 169. | 1338. | 90.4 | 21.33 | 1.95 | 31.16 | 23.28 | 65.92 | 11.70 | 13.12 |

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Comb.Cycle Gas                  9          153377.  865789.     64.4    23.06
 1.19 20994.28    24.25     9.11    13.86  3523.85 24518.13    28.32

ECAO  IGCC 0441142050710 00                  262.    2013.     87.7     6.92
 1.00    15.95     7.92     0.00    31.40     8.23    24.18    12.01
FRCCFLIGCC 1541122050710 00                  250.    1921.     87.7     8.38
 1.00    18.02     9.38     0.00    31.40     7.85    25.87    13.47
NWPE  IGCC 0831402050710 00                  100.     768.     87.7     5.38
 1.00     4.90     6.38     0.00    31.40     3.14     8.04    10.47
NENG  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTIGCC 32    (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTIGCC 32    (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 8     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOIGCC 5     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOIGCC 5     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 8     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.480
Total Annual Costs
Year: 2015

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MACE  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCIGCC 6     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCIGCC 6     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOIGCC 5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOIGCC 5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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IGCC                            10              612.    4702.     87.7     7.27
 1.00    38.88     8.27     0.00    31.40    19.22    58.09    12.36

MECS  CT   0411   000000 00                       9.      11.     13.8    28.58
 1.03     0.32    29.61     0.00    11.20     0.10     0.42    38.85
MECS  CT   0412   000000 00                     152.      61.      4.6    33.24
 1.03     2.10    34.27     0.00     9.00     1.37     3.47    56.59
MECS  CT   0413   000000 00                     114.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.28     1.28     0.00
MECS  CT   0414   000000 00                     838.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.80     9.05     9.05     0.00
MECS  CT   0422   000000 00                    2392.     360.      1.7    34.36
 1.03    12.73    35.39     0.00     2.80     6.70    19.42    54.02
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.481
Total Annual Costs
Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXCT | 2313 | 000000 | 00 | | | 21. | 8. | 4.6 | 39.03 | |
| 1.03 | 0.34 | 40.06 | 0.00 | 11.20 | | 0.24 | 0.57 | 67.83 | | |
| ERCTTXCT | 2314 | 000000 | 00 | | | 4. | 2. | 4.6 | 41.20 | |
| 1.03 | 0.07 | 42.23 | 0.00 | 11.20 | | 0.04 | 0.11 | 70.00 | | |
| ERCTTXCT | 2322 | 000000 | 00 | | | 460. | 344. | 8.5 | 32.85 | |
| 1.03 | 11.67 | 33.88 | 0.00 | 2.80 | | 1.29 | 12.96 | 37.62 | | |
| ERCTTXCT | 2323 | 000000 | 00 | | | 200. | 81. | 4.6 | 36.86 | |
| 1.03 | 3.06 | 37.89 | 0.00 | 2.80 | | 0.56 | 3.62 | 44.84 | | |
| ERCTTXCT | 2414 | 000000 | 00 | | | 7. | 3. | 4.6 | 41.20 | |
| 1.03 | 0.12 | 42.23 | 0.00 | 11.20 | | 0.08 | 0.20 | 70.00 | | |
| ERCTTXCT | 2512 | 000000 | 00 | | | 8. | 14. | 20.4 | 30.72 | |
| 1.03 | 0.45 | 31.75 | 0.00 | 8.80 | | 0.07 | 0.52 | 36.67 | | |
| ERCTTXCT | 2514 | 000000 | 00 | | | 27. | 11. | 4.6 | 41.20 | |
| 1.03 | 0.46 | 42.23 | 0.00 | 11.20 | | 0.30 | 0.76 | 70.00 | | |
| ERCTTXCT | 2722 | 000000 | 00 | | | 275. | 206. | 8.5 | 31.74 | |
| 1.03 | 6.75 | 32.77 | 0.00 | 2.80 | | 0.77 | 7.52 | 36.51 | | |
| ERCTTXCT | 3514 | 000000 | 00 | | | 1. | 0. | 4.6 | 41.20 | |
| 1.03 | 0.02 | 42.23 | 0.00 | 2.80 | | 0.00 | 0.02 | 49.17 | | |
| ERCTTXCT | 3522 | 000000 | 00 | | | 260. | 195. | 8.5 | 33.38 | |
| 1.03 | 6.70 | 34.41 | 0.00 | 2.80 | | 0.73 | 7.43 | 38.14 | | |
| ERCTTXCT | 3523 | 000000 | 00 | | | 502. | 202. | 4.6 | 35.56 | |
| 1.03 | 7.41 | 36.59 | 0.00 | 3.10 | | 1.56 | 8.97 | 44.28 | | |
| ERCTTXCT | 3524 | 000000 | 00 | | | 293. | 118. | 4.6 | 41.44 | |
| 1.03 | 5.02 | 42.47 | 0.00 | 3.30 | | 0.97 | 5.99 | 50.65 | | |
| MACE CT | 0113 | 000000 | 00 | | | 22. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | | 0.25 | 0.25 | 0.00 | | |
| MACE CT | 0114 | 000000 | 00 | | | 612. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | | 6.85 | 6.85 | 0.00 | | |
| MACE CT | 0122 | 000000 | 00 | | | 1024. | 394. | 4.4 | 36.50 | |
| 1.03 | 14.79 | 37.53 | 0.00 | 3.40 | | 3.48 | 18.27 | 46.37 | | |
| MACE CT | 0123 | 000000 | 00 | | | 1635. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 10.40 | | 17.00 | 17.00 | 0.00 | | |
| MACE CT | 0124 | 000000 | 00 | | | 1720. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 10.90 | | 18.75 | 18.75 | 0.00 | | |
| MACE CT | 0212 | 000000 | 00 | | | 3. | 4. | 13.8 | 33.12 | |
| 1.03 | 0.12 | 34.15 | 0.00 | 2.80 | | 0.01 | 0.13 | 36.46 | | |
| MACE CT | 0213 | 000000 | 00 | | | 62. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | | 0.69 | 0.69 | 0.00 | | |
| MACE CT | 0214 | 000000 | 00 | | | 420. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.10 | | 4.66 | 4.66 | 0.00 | | |
| MACE CT | 0222 | 000000 | 00 | | | 1923. | 331. | 2.0 | 35.68 | |
| 1.03 | 12.16 | 36.71 | 0.00 | 3.30 | | 6.35 | 18.51 | 55.87 | | |
| MACE CT | 0223 | 000000 | 00 | | | 190. | 33. | 2.0 | 39.05 | |
| 1.03 | 1.31 | 40.08 | 0.00 | 11.20 | | 2.13 | 3.44 | 105.10 | | |
| MACEVACT | 0312 | 000000 | 00 | | | 4. | 5. | 13.8 | 30.64 | |
| 1.03 | 0.15 | 31.67 | 0.00 | 9.10 | | 0.04 | 0.19 | 39.17 | | |
| MACEVACT | 0314 | 000000 | 00 | | | 12. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | | 0.13 | 0.13 | 0.00 | | |
| MACEVACT | 0323 | 000000 | 00 | | | 26. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | | 0.29 | 0.29 | 0.00 | | |
| MACW CT | 0213 | 000000 | 00 | | | 108. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | | 1.21 | 1.21 | 0.00 | | |
| MACW CT | 0214 | 000000 | 00 | | | 620. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.10 | | 6.88 | 6.88 | 0.00 | | |
| MACW CT | 0222 | 000000 | 00 | | | 671. | 140. | 2.4 | 36.29 | |
| 1.03 | 5.23 | 37.32 | 0.00 | 2.80 | | 1.88 | 7.11 | 50.72 | | |
| MACW CT | 0223 | 000000 | 00 | | | 113. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | | 1.27 | 1.27 | 0.00 | | |
| MACW CT | 0224 | 000000 | 00 | | | 134. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | | 0.38 | 0.38 | 0.00 | | |
| MACS CT | 0211 | 000000 | 00 | | | 6. | 13. | 25.7 | 30.31 | |
| 1.03 | 0.42 | 31.34 | 0.00 | 2.80 | | 0.02 | 0.44 | 32.58 | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.482
Total Annual Costs
Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MANOMOCT | 0514 | 000000 | 00 | | | | 100. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 10.50 | 1.05 | 1.05 | 0.00 | | | | | | |
| MANOMOCT | 0522 | 000000 | 00 | | | | 1002. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 2.81 | 2.81 | 0.00 | | | | | | |
| MANOMOCT | 0523 | 000000 | 00 | | | | 220. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 9.50 | 2.09 | 2.09 | 0.00 | | | | | | |
| MANOMOCT | 0524 | 000000 | 00 | | | | 124. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 9.70 | 1.20 | 1.20 | 0.00 | | | | | | |
| MAPP CT | 0414 | 000000 | 00 | | | | 64. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.72 | 0.72 | 0.00 | | | | | | |
| MAPP CT | 0712 | 000000 | 00 | | | | 2. | 1. | 8.5 | 30.85 | 1.03 | 0.05 | 31.88 |
| 0.00 | 2.80 | 0.01 | 0.05 | 35.62 | | | | | | | | | |
| MAPP CT | 0713 | 000000 | 00 | | | | 64. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 10.10 | 0.65 | 0.65 | 0.00 | | | | | | | | | |
| MAPP CT | 0714 | 000000 | 00 | | | | 114. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 9.90 | 1.13 | 1.13 | 0.00 | | | | | | | | | |
| MAPP CT | 0722 | 000000 | 00 | | | | 30. | 5. | 2.0 | 31.66 | 1.03 | 0.17 | 32.69 |
| 0.00 | 7.80 | 0.23 | 0.40 | 77.98 | | | | | | | | | |
| MAPP CT | 0724 | 000000 | 00 | | | | 371. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 1.04 | 1.04 | 0.00 | | | | | | | | | |
| MAPP CT | 1111 | 000000 | 00 | | | | 64. | 78. | 13.8 | 25.67 | 1.03 | 2.07 | 26.70 |
| 0.00 | 10.70 | 0.68 | 2.76 | 35.53 | | | | | | | | | |
| MAPP CT | 1112 | 000000 | 00 | | | | 273. | 204. | 8.5 | 30.16 | 1.03 | 6.38 | 31.19 |
| 0.00 | 3.80 | 1.04 | 7.41 | 36.26 | | | | | | | | | |
| MAPP CT | 1113 | 000000 | 00 | | | | 144. | 25. | 2.0 | 37.14 | 1.03 | 0.95 | 38.17 |
| 0.00 | 9.50 | 1.37 | 2.31 | 93.32 | | | | | | | | | |
| MAPP CT | 1114 | 000000 | 00 | | | | 1269. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 10.30 | 13.07 | 13.07 | 0.00 | | | | | | | | | |
| MAPP CT | 1122 | 000000 | 00 | | | | 1513. | 280. | 2.1 | 30.71 | 1.03 | 8.90 | 31.74 |
| 0.00 | 2.80 | 4.24 | 13.13 | 46.85 | | | | | | | | | |
| MAPP CT | 1123 | 000000 | 00 | | | | 934. | 109. | 1.3 | 36.44 | 1.03 | 4.08 | 37.47 |
| 0.00 | 9.90 | 9.25 | 13.33 | 122.36 | | | | | | | | | |
| MAPP CT | 1124 | 000000 | 00 | | | | 353. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 10.10 | 3.57 | 3.57 | 0.00 | | | | | | | | | |
| MAPPMOCT | 0513 | 000000 | 00 | | | | 42. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 0.12 | 0.12 | 0.00 | | | | | | | | | |
| MAPPMOCT | 0523 | 000000 | 00 | | | | 62. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 11.20 | 0.69 | 0.69 | 0.00 | | | | | | | | | |
| MAPPNECT | 1412 | 000000 | 00 | | | | 49. | 37. | 8.5 | 29.62 | 1.03 | 1.12 | 30.65 |
| 0.00 | 10.00 | 0.49 | 1.61 | 44.01 | | | | | | | | | |
| MAPPNECT | 1413 | 000000 | 00 | | | | 21. | 4. | 2.0 | 37.03 | 1.03 | 0.14 | 38.06 |
| 0.00 | 11.20 | 0.24 | 0.37 | 103.09 | | | | | | | | | |
| MAPPNECT | 1414 | 000000 | 00 | | | | 234. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 10.50 | 2.46 | 2.46 | 0.00 | | | | | | | | | |
| MAPPNECT | 1422 | 000000 | 00 | | | | 629. | 471. | 8.5 | 31.21 | 1.03 | 15.18 | 32.24 |
| 0.00 | 3.20 | 2.01 | 17.20 | 36.51 | | | | | | | | | |
| MAPPNECT | 1423 | 000000 | 00 | | | | 496. | 85. | 2.0 | 35.79 | 1.03 | 3.15 | 36.82 |
| 0.00 | 10.50 | 5.21 | 8.35 | 97.78 | | | | | | | | | |
| MAPPNECT | 1424 | 000000 | 00 | | | | 82. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 0.23 | 0.23 | 0.00 | | | | | | | | | |
| MAPPWICT | 1312 | 000000 | 00 | | | | 25. | 19. | 8.5 | 29.79 | 1.03 | 0.58 | 30.82 |
| 0.00 | 3.60 | 0.09 | 0.67 | 35.63 | | | | | | | | | |
| MAPPWICT | 1313 | 000000 | 00 | | | | 13. | 2. | 2.0 | 37.47 | 1.03 | 0.09 | 38.50 |
| 0.00 | 3.80 | 0.05 | 0.14 | 60.56 | | | | | | | | | |
| MAPPWICT | 1314 | 000000 | 00 | | | | 83. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 10.20 | 0.85 | 0.85 | 0.00 | | | | | | | | | |
| MAPPWICT | 1322 | 000000 | 00 | | | | 82. | 45. | 6.3 | 30.67 | 1.03 | 1.44 | 31.70 |
| 0.00 | 2.80 | 0.23 | 1.67 | 36.75 | | | | | | | | | |
| MAPPWICT | 1323 | 000000 | 00 | | | | 484. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 11.20 | 5.42 | 5.42 | 0.00 | | | | | | | | | |
| UPNY CT | 0112 | 000000 | 00 | | | | 8. | 3. | 4.6 | 34.75 | 1.03 | 0.12 | 35.78 |
| 0.00 | 2.80 | 0.02 | 0.14 | 42.72 | | | | | | | | | |

Total Annual Costs

Year: 2015

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NENGCTCT   3213   000000 00                    15.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.17     0.17     0.00
NENGCTCT   3214   000000 00                   199.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.10     2.21     2.21     0.00
NENGCTCT   3222   000000 00                   333.     134.      4.6    37.00
 1.03     5.11    38.03     0.00     2.80     0.93     6.04    44.97
NENGCTCT   3223   000000 00                    31.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.09     0.09     0.00
NENGCTCT   3224   000000 00                   418.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     4.10     1.71     1.71     0.00
NENGNHCT   2914   000000 00                    81.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.91     0.91     0.00
NENGNHCT   3014   000000 00                    12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.03     0.03     0.00
FRCCFLCT   1512   000000 00                    68.     121.     20.4    34.80
 1.03     4.35    35.83     0.00     9.60     0.65     5.00    41.20
FRCCFLCT   1513   000000 00                    30.       5.      2.0    45.18
 1.03     0.24    46.21     0.00    11.20     0.34     0.57   111.23
FRCCFLCT   1514   000000 00                   389.      67.      2.0    48.02
 1.03     3.29    49.05     0.00    10.10     3.93     7.22   107.68
FRCCFLCT   1522   000000 00                  5658.    6220.     12.6    36.65
 1.03   234.39    37.68     0.00     3.00    16.97   251.36    40.41
FRCCFLCT   1523   000000 00                  2073.     357.      2.0    42.89
 1.03    15.68    43.92     0.00    10.10    20.94    36.62   102.56
FRCCFLCT   1524   000000 00                  2182.      14.      0.1    47.95
 1.03     0.71    48.98     0.00    10.20    22.26    22.97  1587.40
VACA  CT   0612   000000 00                    22.       4.      2.0    37.91
 1.03     0.15    38.94     0.00     2.80     0.06     0.21    55.19
VACA  CT   0613   000000 00                    60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.67     0.67     0.00
VACA  CT   0614   000000 00                   493.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     5.52     5.52     0.00
VACA  CT   0622   000000 00                  1934.     333.      2.0    36.14
 1.03    12.38    37.17     0.00     2.80     5.42    17.80    53.43
VACA  CT   0623   000000 00                   446.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     5.00     5.00     0.00
VACA  CT   0624   000000 00                   581.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     4.10     2.38     2.38     0.00
VACANCCT   0611   000000 00                     1.       2.     25.7    30.71
 1.03     0.07    31.74     0.00     2.80     0.00     0.07    32.98
VACANCCT   0613   000000 00                    26.       4.      2.0    41.81
 1.03     0.19    42.84     0.00    11.20     0.29     0.48   107.86
VACANCCT   0614   000000 00                   222.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.90     2.42     2.42     0.00
VACANCCT   0622   000000 00                  3047.    1380.      5.2    36.45
 1.03    51.73    37.48     0.00     2.80     8.53    60.26    43.66
VACANCCT   0623   000000 00                  1291.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     3.10     4.00     4.00     0.00
VACANCCT   0624   000000 00                   430.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     4.82     4.82     0.00
VACAVACT   0312   000000 00                    28.      21.      8.5    32.51
 1.03     0.70    33.54     0.00     2.80     0.08     0.78    37.28
VACAVACT   0313   000000 00                     3.       1.      2.0    40.65
 1.03     0.02    41.68     0.00     7.80     0.02     0.04    86.97
VACAVACT   0314   000000 00                   426.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.90     4.64     4.64     0.00
VACAVACT   0322   000000 00                  1647.     284.      2.0    36.88
 1.03    10.75    37.91     0.00     2.80     4.61    15.37    54.16
VACAVACT   0324   000000 00                   387.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     1.08     1.08     0.00
TVA   CT   0612   000000 00                     4.       2.      5.9    33.32
 1.03     0.07    34.35     0.00     2.80     0.01     0.08    39.76
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.484
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SPPN  CT   1711   000000 00                    17.      13.      8.5    25.46
 1.03     0.34    26.49     0.00     8.50     0.14     0.48    37.84
SPPN  CT   1712   000000 00                   214.     111.      5.9    30.35
 1.03     3.48    31.38     0.00     9.00     1.93     5.40    48.77
SPPN  CT   1713   000000 00                    90.      16.      2.0    37.93
 1.03     0.60    38.96     0.00     9.60     0.86     1.47    94.69
SPPN  CT   1714   000000 00                   493.      84.      2.0    40.24
 1.03     3.48    41.27     0.00    10.30     5.08     8.56   101.46
SPPN  CT   1722   000000 00                   353.     183.      5.9    31.27
 1.03     5.90    32.30     0.00     3.60     1.27     7.17    39.25
SPPN  CT   1723   000000 00                   637.     301.      5.4    35.90
 1.03    11.12    36.93     0.00    10.70     6.82    17.94    59.56
SPPN  CT   1724   000000 00                    81.      14.      2.0    40.18
 1.03     0.58    41.21     0.00     2.80     0.23     0.80    57.47
SPPNMOCT   0511   000000 00                     2.       1.      8.5    25.83
 1.03     0.04    26.86     0.00     7.80     0.02     0.06    37.28
SPPNMOCT   0512   000000 00                   103.      70.      7.8    29.35
 1.03     2.13    30.38     0.00    10.00     1.03     3.16    45.07
SPPNMOCT   0513   000000 00                    11.       2.      2.0    37.39
 1.03     0.07    38.42     0.00     2.80     0.03     0.10    54.67
SPPNMOCT   0514   000000 00                   309.      53.      2.0    40.18
 1.03     2.19    41.21     0.00    10.80     3.34     5.53   103.92
SPPNMOCT   0522   000000 00                  1320.     683.      5.9    30.90
 1.03    21.82    31.93     0.00     3.70     4.88    26.70    39.08
SPPNMOCT   0523   000000 00                   733.     126.      2.0    36.19
 1.03     4.70    37.22     0.00     9.40     6.89    11.59    91.80
SPPNMOCT   0524   000000 00                   288.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.81     0.81     0.00
SPPS  CT   0812   000000 00                     6.       2.      4.6    30.54
 1.03     0.08    31.57     0.00    11.20     0.07     0.14    59.34
SPPS  CT   0814   000000 00                    35.       6.      2.0    40.33
 1.03     0.25    41.36     0.00    11.20     0.39     0.64   106.38
SPPS  CT   0823   000000 00                    66.      11.      2.0    36.08
 1.03     0.42    37.11     0.00    11.20     0.74     1.16   102.13
SPPS  CT   0824   000000 00                   244.      42.      2.0    40.33
 1.03     1.74    41.36     0.00     2.80     0.68     2.42    57.61
SPPS  CT   1012   000000 00                     9.       7.      8.5    30.34
 1.03     0.21    31.37     0.00     4.30     0.04     0.25    37.11
SPPS  CT   1014   000000 00                    76.      13.      2.0    40.28
 1.03     0.54    41.31     0.00    10.40     0.79     1.33   101.69
SPPS  CT   1022   000000 00                   457.     118.      2.9    31.00
 1.03     3.78    32.03     0.00     2.80     1.28     5.06    42.88
SPPS  CT   3612   000000 00                    11.       8.      8.5    29.63
 1.03     0.25    30.66     0.00     9.90     0.11     0.36    43.89
SPPS  CT   3614   000000 00                   161.      28.      2.0    40.33
 1.03     1.15    41.36     0.00    11.00     1.77     2.92   105.22
SPPS  CT   3622   000000 00                   512.     207.      4.6    31.05
 1.03     6.63    32.08     0.00     2.80     1.43     8.06    39.03
SPPS  CT   3623   000000 00                    53.       9.      2.0    39.39
 1.03     0.37    40.42     0.00    11.20     0.59     0.96   105.45
SPPS  CT   3624   000000 00                   162.      28.      2.0    41.07
 1.03     1.17    42.10     0.00    11.20     1.81     2.99   107.13
SPPSMSCT   1614   000000 00                    15.       3.      2.0    40.33
 1.03     0.11    41.36     0.00    11.20     0.17     0.27   106.38
SPPSTXCT   2214   000000 00                    40.       7.      2.0    40.33
 1.03     0.28    41.36     0.00    11.20     0.45     0.73   106.38
SPPSTXCT   2322   000000 00                   100.      17.      2.0    30.93
 1.03     0.55    31.96     0.00     2.80     0.28     0.83    48.22
SPPSTXCT   2512   000000 00                     3.       1.      4.6    30.95
 1.03     0.04    31.98     0.00    11.20     0.03     0.07    59.74
SPPSTXCT   2513   000000 00                     5.       1.      2.0    38.78
 1.03     0.03    39.81     0.00    11.20     0.06     0.09   104.83
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.485
Total Annual Costs
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RMPA  CT   0713   000000 00                    68.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     9.50     0.65     0.65     0.00
RMPA  CT   0714   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
RMPA  CT   0722   000000 00                    48.      11.      2.6    30.12
 1.03     0.35    31.15     0.00     2.80     0.13     0.48    43.27
RMPA  CT   0723   000000 00                    42.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     7.80     0.33     0.33     0.00
RMPA  CT   0812   000000 00                    10.       2.      2.6    30.12
 1.03     0.07    31.15     0.00     2.80     0.03     0.10    43.27
RMPA  CT   0814   000000 00                   121.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.36     1.36     0.00
RMPA  CT   0822   000000 00                  1444.     116.      0.9    30.14
 1.03     3.61    31.17     0.00     3.00     4.33     7.95    68.52
RMPA  CT   0823   000000 00                    31.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.35     0.35     0.00
RMPA  CT   0824   000000 00                   235.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     2.63     2.63     0.00
RMPANECT   1412   000000 00                     4.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.04     0.04     0.00
RMPANECT   1414   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.12     0.12     0.00
NWPE  CT   0712   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     7.80     0.00     0.00     0.00
NWPE  CT   0714   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
NWPE  CT   0722   000000 00                   160.      15.      1.0    24.83
 1.03     0.38    25.86     0.00     2.80     0.45     0.83    56.50
NWPE  CT   0811   000000 00                    14.      51.     41.6    24.78
 1.03     1.32    25.81     0.00     2.80     0.04     1.36    26.57
NWPE  CT   0812   000000 00                    53.       9.      2.0    23.91
 1.03     0.23    24.94     0.00     2.80     0.15     0.38    41.20
NWPE  CT   0814   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.80     0.00     0.00     0.00
NWPE  CT   0822   000000 00                   928.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     2.60     2.60     0.00
NWPE  CT   0824   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
NENG  CT   1     (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   1     (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  ACT  1     (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  ACT  1     (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   32    (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   32    (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTACT  32    (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTACT  32    (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   1     (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   1     (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  ACT  1     (a)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  ACT  1     (b)                             0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.486
Total Annual Costs
Year: 2015

| | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMS | CT | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | CT | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | ACT | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | ACT | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | CT | 8 | (a) | | | | | 266. | 45. | 1.9 | 33.63 | | |
| 3.91 | 1.69 | 37.54 | 55.48 | 9.80 | 17.38 | 19.07 | 424.18 | | | | | | |
| WUMS | CT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | ACT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMS | ACT | 8 | (b) | | | | | 1261. | 2096. | 19.0 | 26.54 | | |
| 2.94 | 61.79 | 29.48 | 53.06 | 7.80 | 76.77 | 138.56 | 66.10 | | | | | | |
| MANO | CT | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | CT | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | ACT | 1 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | ACT | 1 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | CT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | CT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | ACT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | ACT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOCT | | 5 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOCT | | 5 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOACT | | 5 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOACT | | 5 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | CT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | CT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | ACT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPS | ACT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | CT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | CT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | ACT | 8 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | ACT | 8 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOCT | | 5 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOCT | | 5 | (b) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOACT | | 5 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.487
Total Annual Costs
Year: 2015

| Unit Name | | | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Total MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fixed Costs | | | Total Costs | | | | | |
| SPPNMOACT | 5 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT | 19 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT | 19 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXACT | 19 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXACT | 19 | (b) | | | 3318. | 7223. | 24.8 | 24.83 | 2.94 | 27.77 | 200.60 |
| RMPA CT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA ACT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA ACT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE ACT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE ACT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM ACT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM ACT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ACT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ACT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI ACT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |

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CALI  ACT  8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  ACT  1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  ACT  1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  ACT  1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  ACT  1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  ACT  1     (b)                              809.    1077.     15.2    28.38
 2.94    33.72    31.32    52.66     7.80    48.89    82.62    76.73
FRCC  CT   8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  CT   8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  ACT  8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  ACT  8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  ACT  1     (b)                             2130.    1580.      8.5    28.66
 2.94    49.93    31.60    50.79     7.80   124.81   174.73   110.58
VACANCCT   6     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCT   6     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.488
Total Annual Costs
Year: 2015

| Unit Name | | | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fixed Costs | | | Total Costs | | | | |
| | | MMUS$ | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | |
| VACANCACT 6 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| VACANCACT 6 | (b) | | | | 929. | 1673. | 20.6 | 28.77 | 2.94 | 53.05 |
| | | 31.71 | 50.79 | 7.80 | 54.41 | 107.45 | 64.23 | | | |
| TVA CT 1 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA CT 1 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA ACT 1 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA ACT 1 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA CT 8 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA CT 8 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA ACT 8 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA ACT 8 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTG CT 8 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTG CT 8 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTG ACT 8 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTG ACT 8 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTGMOCT 5 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTGMOCT 5 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTGMOACT 5 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTGMOACT 5 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU CT 1 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU CT 1 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU ACT 1 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU ACT 1 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU CT 8 | (a) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU CT 8 | (b) | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |

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SOU   ACT  8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   ACT  8     (b)                             1110.    1955.     20.1    25.89
 2.94    56.34    28.83    50.79     7.80    65.00   121.35    62.09
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Turbine                          11          140103.   56572.      4.6    31.76
 1.56  1884.87    33.32     3.63     5.61  1294.56  3179.43    56.20

MECS  BIOMS00  42 000000 00                     161.    1237.     87.7     6.36
 5.36    14.50    11.72     0.00    44.80     7.21    21.71    17.56
ECAO  BIOMS00  42 000000 00                      84.     645.     87.7     6.36
 5.36     7.57    11.72     0.00    44.80     3.76    11.33    17.56
MACE  BIOMS00  44 000000 00                       8.      61.     87.7     5.29
 5.36     0.65    10.65     0.00    44.80     0.36     1.01    16.48
MACW  BIOMS00  44 000000 00                      17.     131.     87.7     6.09
 5.36     1.50    11.45     0.00    44.80     0.76     2.26    17.28
WUMS  BIOMS00  45 000000 00                      12.      92.     87.7     5.29
 5.36     0.98    10.65     0.00    44.80     0.54     1.52    16.48
MANO  BIOMS00  45 000000 00                       1.       8.     87.7     5.29
 5.36     0.08    10.65     0.00    44.80     0.04     0.13    16.48
MAPP  BIOMS00  46 000000 00                     163.    1252.     87.7    11.25
 5.36    20.80    16.61     0.00    44.80     7.30    28.11    22.44
UPNY  BIOMS00  47 000000 00                      18.     138.     87.7     6.09
 5.36     1.58    11.45     0.00    44.80     0.81     2.39    17.28
NENG  BIOMS00  48 000000 00                     309.    1037.     38.3    22.74
 5.36    29.13    28.10     0.00    44.80    13.84    42.98    41.45
FRCC  BIOMS00  49 000000 00                      54.     415.     87.7     6.09
 5.36     4.75    11.45     0.00    44.80     2.42     7.17    17.28
VACA  BIOMS00  50 000000 00                      47.     361.     87.7     6.09
 5.36     4.13    11.45     0.00    44.80     2.11     6.24    17.28
TVA   BIOMS00  50 000000 00                       1.       8.     87.7     6.09
 5.36     0.09    11.45     0.00    44.80     0.04     0.13    17.28
ENTG  BIOMS00  51 000000 00                      10.      77.     87.7     6.09
 5.36     0.88    11.45     0.00    44.80     0.45     1.33    17.28
CALI  BIOMS00  54 000000 00                     432.    3319.     87.7    18.90
 5.36    80.52    24.26     0.00    44.80    19.35    99.87    30.09
PNW   BIOMS00  52 000000 00                       6.      46.     87.7     8.17
 5.36     0.62    13.53     0.00    44.80     0.27     0.89    19.36
AZNM  BIOMS00  53 000000 00                      18.     138.     87.7     9.93
 5.36     2.11    15.29     0.00    44.80     0.81     2.92    21.12
RMPA  BIOMS00  53 000000 00                       1.       8.     87.7     9.93
 5.36     0.12    15.29     0.00    44.80     0.04     0.16    21.12
NWPE  BIOMS00  52 000000 00                       5.      38.     87.7     8.17
 5.36     0.52    13.53     0.00    44.80     0.22     0.74    19.36
NENG  BIOCC0     (a)                              30.     227.     87.7    20.39
 5.34     5.85    25.73   215.30    44.80     7.70    13.55    59.60
UPNY  BIOCC0     (a)                               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  BIOCC0     (a)                               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   BIOCC0     (a)                               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  BIOCC0     (a)                               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  BIOCC0     (a)                               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  BIOCC0     (a)                               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  BIOCC0     (a)                               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.489
Total Annual Costs
Year: 2015

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 0.00     0.00     0.00     0.00    87.40    21.06    21.06    11.47
RMPA  GEOR 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ10     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ40     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ50     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  GEOA 0     (a)                          280.    2142.     87.2     0.00
 0.00     0.00     0.00   352.02    85.80   122.76   122.76    57.31
AZNM  GEOA20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Geothermal                     13            3223.   24571.     87.0     0.00
 0.00     0.00     0.00    30.62    87.26   379.98   379.98    15.46

MECS  LFGAS00     000000 00                      5.      39.     90.0     0.00
10.48     0.41    10.48     0.00    78.60     0.39     0.81    20.45
ECAO  LFGAS00     000000 00                     12.      95.     90.0     0.00
10.48     0.99    10.48     0.00    78.60     0.94     1.93    20.45
ERCT  LFGAS00     000000 00                     67.     528.     90.0     0.00
10.48     5.54    10.48     0.00    78.60     5.27    10.80    20.45
MACE  LFGAS00     000000 00                     24.     189.     90.0     0.00
10.48     1.98    10.48     0.00    78.60     1.89     3.87    20.45
MACW  LFGAS00     000000 00                      1.       8.     90.0     0.00
10.48     0.08    10.48     0.00    78.60     0.08     0.16    20.45
MACS  LFGAS00     000000 00                      4.      32.     90.0     0.00
10.48     0.33    10.48     0.00    78.60     0.31     0.64    20.45
WUMS  LFGAS00     000000 00                     14.     110.     90.0     0.00
10.48     1.16    10.48     0.00    78.60     1.10     2.26    20.45
MANO  LFGAS00     000000 00                     38.     300.     90.0     0.00
10.48     3.14    10.48     0.00    78.60     2.99     6.13    20.45
MAPP  LFGAS00     000000 00                     11.      87.     90.0     0.00
10.48     0.91    10.48     0.00    78.60     0.86     1.77    20.45
UPNY  LFGAS00     000000 00                      6.      47.     90.0     0.00
10.48     0.50    10.48     0.00    78.60     0.47     0.97    20.45
NENG  LFGAS00     000000 00                     18.     142.     90.0     0.00
10.48     1.49    10.48     0.00    78.60     1.41     2.90    20.45
FRCC  LFGAS00     000000 00                      2.      16.     90.0     0.00
10.48     0.17    10.48     0.00    78.60     0.16     0.32    20.45
VACA  LFGAS00     000000 00                     25.     197.     90.0     0.00
10.48     2.07    10.48     0.00    78.60     1.96     4.03    20.45
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.490
Total Annual Costs
Year: 2015

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MACE  LG   0     (a)                          114.     849.     85.0     0.00
10.48     8.90    10.48   174.07    78.60    28.80    37.70    44.40
MACW  LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Landfill Gas                  14             858.    6609.     87.9     0.00
10.48    69.26    10.48    75.85    78.60   132.50   201.76    30.53

MECS  WIND 00     000000 00                     1.       2.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     0.03     0.03    10.83
ECAO  WIND 00     000000 00                   105.     256.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     2.77     2.77    10.83
ERCT  WIND 00     000000 00                   703.    2288.     37.1     0.00
 0.00     0.00     0.00     0.00    26.40    18.56    18.56     8.11
MACE  WIND 00     000000 00                    14.      31.     25.3     0.00
 0.00     0.00     0.00     0.00    26.40     0.37     0.37    11.91
MACW  WIND 00     000000 00                    10.      27.     30.4     0.00
 0.00     0.00     0.00     0.00    26.40     0.26     0.26     9.93
WUMS  WIND 00     000000 00                    13.      32.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     0.34     0.34    10.83
MANO  WIND 00     000000 00                    52.     137.     30.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.37     1.37    10.05
MAPP  WIND 00     000000 00                   857.    2252.     30.0     0.00
 0.00     0.00     0.00     0.00    26.40    22.62    22.62    10.05
UPNY  WIND 00     000000 00                   194.     136.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     5.12     5.12    37.55
DSNY  WIND 00     000000 00                    64.      45.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.69     1.69    37.55
NYC   WIND 00     000000 00                    59.      41.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.56     1.56    37.55
LILC  WIND 00     000000 00                    36.      25.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     0.95     0.95    37.55
NENG  WIND 00     000000 00                    31.      22.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     0.82     0.82    37.55
VACA  WIND 00     000000 00                    14.      31.     25.3     0.00
 0.00     0.00     0.00     0.00    26.40     0.37     0.37    11.91
TVA   WIND 00     000000 00                     2.       3.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     0.05     0.05    17.01
ENTG  WIND 00     000000 00                    57.      88.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     1.50     1.50    17.01
SPPS  WIND 00     000000 00                    66.     102.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     1.74     1.74    17.01
CALI  WIND 00     000000 00                  1931.    7234.     42.8     0.00
 0.00     0.00     0.00     0.00    26.40    50.98    50.98     7.05
PNW   WIND 00     000000 00                   412.     290.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40    10.88    10.88    37.55
AZNM  WIND 00     000000 00                    49.     159.     37.1     0.00
 0.00     0.00     0.00     0.00    26.40     1.29     1.29     8.11
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Total Annual Costs
Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | WIN520 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | WIN530 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | WIN410 | (a) | | | | | 32. | 84. | 29.9 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 139.76 | 26.40 | 5.32 | 5.32 | 63.48 | | | | | |
| MAPP | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPS | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPS | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPS | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ERCTTX | WIN410 | (a) | | | | | 224. | 586. | 29.9 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 138.42 | 26.40 | 36.92 | 36.92 | 62.97 | | | | | |
| ERCTTX | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ERCTTX | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN610 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN620 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN630 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN510 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN520 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN530 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN610 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN620 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN630 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN510 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN520 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN530 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.492
Total Annual Costs
Year: 2015

| | | | Fixed Costs | | | Total Costs | | | Variable Costs | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| | | Total | Capital | FOM | Total | Total | | | VOM | | | |
| Unit | Name | | | | [MW] | [GWh] | [%] | mill/kWh | mill/kWh | | | |
| | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | |
| NWPE | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | WIN510 | (a) | | | 263. | 758. | 32.9 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 143.65 | 26.40 | 44.72 | 44.72 | 59.03 | | | | |
| AZNM | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| AZNM | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| PNW | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| PNW | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| PNW | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| PNW | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| PNW | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| PNW | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| PNW | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| PNW | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| PNW | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| CALI | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| CALI | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| CALI | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| CALI | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| CALI | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CALI | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | WIN410 | (a) | | | | | | 115. | 301. | 29.9 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 138.82 | 26.40 | 19.00 | 19.00 | 63.12 | | | | | | |
| MACE | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN610 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN620 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN630 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.493
Total Annual Costs
Year: 2015

| | | | Fixed Costs | | | Total Costs | | | Variable Costs | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Capacity | Gener. | C.F. | Fuel | | | | | | | | |
| | | Total | Capital | FOM | Total | Total | | | VOM | | | | | | | |
| Unit | Name | | | | [MW] | [GWh] | [%] | mill/kWh | mill/kWh | | | | | | | |
| | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | | | | |
| VACA | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Wind                            15            6159.   17327.     32.1     0.00
 0.00     0.00     0.00    25.75    26.40   321.18   321.18    18.54

MACE  FCELL00     000000 00                    15.      38.     29.1    25.17
 2.06     1.04    27.23     0.00    15.00     0.23     1.27    33.11
UPNY  FCELL00     000000 00                     1.       8.     90.7    23.85
 2.06     0.21    25.91     0.00    15.00     0.01     0.22    27.79
NENG  FCELL00     000000 00                     1.       5.     56.4    25.52
 2.06     0.14    27.58     0.00    15.00     0.01     0.15    30.62
NENG  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  FC   8     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  FC   8     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOFC   5     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOFC   5     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXFC   19    (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXFC   19    (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.494
Total Annual Costs
Year: 2015

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TVA   FC   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  FC   8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  FC   8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   FC   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   FC   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Fuel Cell                      16                  17.      51.     34.4    25.00
 2.06     1.38    27.06     0.00    15.00     0.26     1.64    32.04

ERCT  SOLAR00     000000 00                         1.       0.      5.5     0.00
 0.00     0.00     0.00     0.00    47.00     0.05     0.05    97.62
CALI  SOLAR00     000000 00                       324.     790.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00    15.23    15.23    19.27
AZNM  SOLAR00     000000 00                        61.      29.      5.5     0.00
 0.00     0.00     0.00     0.00    47.00     2.87     2.87    97.62
RMPA  SOLAR00     000000 00                         3.       7.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00     0.14     0.14    19.27
NWPE  SOLAR00     000000 00                        24.      59.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00     1.13     1.13    19.27
NENG  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.495
Total Annual Costs
Year: 2015

| | | | | Fixed Costs | | | Total Costs | | Variable Costs | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Unit | Name | | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel mill/kWh | VOM mill/kWh | Total MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh |
| NWPE | SLRTH0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | SLRTH0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | SLRPV0 | (a) | | | 3. | 6. | 24.2 | 0.00 | 0.00 | 0.00 | 0.00 | 358.99 | 10.00 | 1.11 | 1.11 | 174.19 |
| PNW | SLRTH0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | SLRTH0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | SLRTH0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | SLRPV0 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Solar | | | 17 | | 416. | 892. | 24.5 | 0.00 | 0.00 | 0.00 | 0.00 | 2.59 | 46.73 | 20.52 | 20.52 | 22.99 |
| MECS | OTHER00 | 000000 00 | | | 18. | 142. | 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103.60 | 1.86 | 1.86 | 13.14 |
| MANO | OTHER00 | 000000 00 | | | 21. | 166. | 90.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 103.60 | 2.18 | 2.18 | 13.14 |
| SPPS | OTHER00 | 000000 00 | | | 13. | 102. | 90.0 | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00   103.60     1.35     1.35    13.14
MECS  OTHER00     000000 00                   15.     118.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.55     1.55    13.14
ECAO  OTHER00     000000 00                   90.     710.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     9.32     9.32    13.14
ERCT  OTHER00     000000 00                   10.      79.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.14
MACE  OTHER00     000000 00                  257.    2026.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    26.63    26.63    13.14
MACW  OTHER00     000000 00                  119.     938.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    12.33    12.33    13.14
MACS  OTHER00     000000 00                   55.     434.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     5.70     5.70    13.14
MAPP  OTHER00     000000 00                   34.     268.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.14
UPNY  OTHER00     000000 00                   34.     268.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.14
DSNY  OTHER00     000000 00                   82.     646.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     8.50     8.50    13.14
LILC  OTHER00     000000 00                  137.    1080.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    14.19    14.19    13.14
NENG  OTHER00     000000 00                  537.    4234.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    55.63    55.63    13.14
FRCC  OTHER00     000000 00                  424.    3343.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    43.93    43.93    13.14
VACA  OTHER00     000000 00                  140.    1104.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    14.50    14.50    13.14
TVA   OTHER00     000000 00                   12.      95.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.24     1.24    13.14
ENTG  OTHER00     000000 00                   31.     244.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.21     3.21    13.14
SPPS  OTHER00     000000 00                   10.      79.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.14
CALI  OTHER00     000000 00                  178.    1403.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    18.44    18.44    13.14
PNW   OTHER00     000000 00                   58.     457.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     6.01     6.01    13.14
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Non Fossil_Other                18            2275.   17936.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60   235.69   235.69    13.14

ECAO  WASTE062    000000 00                   60.     473.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     6.22     6.22    13.14
ERCTTXWASTE271    000000 00                    2.      16.     90.0     0.00
 0.00     0.00     0.00     0.00   108.60     0.22     0.22    13.78
MANO  WASTE041    000000 00                    2.      16.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     0.21     0.21    13.14
CALI  WASTE081    000000 00                   20.     158.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     2.07     2.07    13.14
NWPE  WASTE072    000000 00                   41.     323.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     4.25     4.25    13.14
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Fossil_Other                    19             125.     985.     90.0     0.00
 0.00     0.00     0.00     0.00   103.68    12.96    12.96    13.15

MECS  PUMPS00     000000 00                 1872.    1954.     11.9     0.00
 0.00     0.00     0.00     0.00     6.50    12.17    12.17     6.23
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.496
Total Annual Costs
Year: 2015

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Int. Imports                  21           11000.   21538.     22.4     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  CGCOU0431392050710 01                   55.     373.     77.4    10.53
 1.54     4.50    12.07     0.00    11.70     0.64     5.15    13.80
ECAO  CGCOU0231412050710 01                  127.     697.     62.7    13.83
 1.54    10.72    15.37     0.00    17.40     2.21    12.93    18.54
ECAO  CGCOU0411142050710 01                    1.       7.     83.5    11.66
 1.54     0.10    13.20     0.00    17.40     0.02     0.11    15.58
MACE  CGCOU0141012050710 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.70     0.00     0.00     0.00
MACE  CGCOU0211412050710 01                    8.      59.     83.5    12.36
 1.54     0.81    13.90     0.00    17.40     0.14     0.95    16.28
MACW  CGCOU0211412050710 01                   44.     322.     83.5    12.13
 1.54     4.40    13.67     0.00    21.10     0.93     5.33    16.56
MACW  CGCOU0231412050710 01                   82.     556.     77.4    11.14
 1.54     7.05    12.68     0.00    11.70     0.96     8.01    14.40
MACW  CGCOU0232412050710 01                  120.     582.     55.4    15.10
 1.54     9.69    16.64     0.00    15.50     1.86    11.55    19.83
MACW  CGCOU0241412050710 01                  101.     685.     77.4    11.88
 1.54     9.20    13.42     0.00    11.70     1.18    10.38    15.14
WUMSWICGCOU1211162050710 01                   11.      80.     83.5     7.02
 1.54     0.69     8.56     0.00    11.70     0.13     0.82    10.16
WUMSWICGCOU1311162050710 01                    4.      29.     83.5     8.14
 1.54     0.28     9.68     0.00    32.00     0.13     0.41    14.06
MAPP  CGCOU1111262050210 01                   11.      80.     83.5     8.66
 1.54     0.82    10.20     0.00    32.00     0.35     1.17    14.58
MAPP  CGCOU1111262050710 01                    1.       7.     83.5     9.82
 1.54     0.08    11.36     0.00    32.00     0.03     0.12    15.73
UPNY  CGCOU0131022050710 01                   80.     585.     83.5    11.73
 1.54     7.77    13.27     0.00    11.70     0.94     8.70    14.87
NENG  CGCOU0931012050710 01                   76.     556.     83.5    14.38
 1.54     8.85    15.92     0.00    11.70     0.89     9.74    17.52
FRCCFLCGCOU1541132050710 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    12.70     0.00     0.00     0.00
VACA  CGCOU0631102050710 01                   35.     256.     83.5    11.14
 1.54     3.25    12.68     0.00    11.70     0.41     3.66    14.28
VACANCCGCOU0611102050310 01                   65.     475.     83.5    12.36
 1.54     6.61    13.90     0.00    22.40     1.46     8.07    16.97
VACANCCGCOU0611102050710 01                   21.     154.     83.5    12.75
 1.54     2.20    14.29     0.00    28.70     0.60     2.80    18.22
VACANCCGCOU0631102050310 01                  135.     987.     83.5    12.36
 1.54    13.73    13.90     0.00    17.40     2.35    16.08    16.28
VACANCCGCOU0631102050710 01                  161.    1178.     83.5    12.36
 1.54    16.37    13.90     0.00    13.60     2.19    18.56    15.76
VACAVACGCOU0311092050310 01                   49.     358.     83.5    12.68
 1.54     5.10    14.22     0.00    17.40     0.85     5.95    16.60
VACAVACGCOU0331092050710 01                  363.    2655.     83.5    11.57
 1.54    34.82    13.11     0.00    11.70     4.25    39.07    14.71
VACAVACGCOU0341092050710 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.70     0.00     0.00     0.00
SOU   CGCOU0611112050710 01                    1.       7.     83.5    12.68
 1.54     0.10    14.22     0.00    14.60     0.01     0.12    16.22
SPPS  CGCOU3641282050710 01                  307.    2246.     83.5     7.66
 1.54    20.66     9.20     0.00    11.70     3.59    24.25    10.80
CALI  CGCOU0811372050710 01                   68.     497.     83.5     7.21
 1.54     4.35     8.75     0.00    20.50     1.39     5.75    11.55
CALI  CGCOU0831372050710 01                  153.    1119.     83.5     6.98
 1.54     9.54     8.52     0.00    11.70     1.79    11.33    10.12
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Total Annual Costs
Year: 2015

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 1.03     0.21    29.29     0.00     2.80     0.02     0.23    31.60
MACE  CGCT 0112   000000 00                   13.      16.     13.8    32.04
 1.03     0.52    33.07     0.00     2.80     0.04     0.56    35.38
MACE  CGCT 0122   000000 00                  170.      69.      4.6    36.35
 1.03     2.56    37.38     0.00     2.80     0.48     3.04    44.33
MACE  CGCT 0222   000000 00                   88.      35.      4.6    36.35
 1.03     1.33    37.38     0.00     2.80     0.25     1.57    44.33
MACW  CGCT 0212   000000 00                   33.      25.      8.5    33.27
 1.03     0.85    34.30     0.00     2.80     0.09     0.94    38.04
MACW  CGCT 0222   000000 00                  145.      25.      2.0    36.04
 1.03     0.93    37.07     0.00     2.80     0.41     1.33    53.32
MANO  CGCT 0412   000000 00                    8.       6.      8.5    31.97
 1.03     0.20    33.00     0.00     2.80     0.02     0.22    36.74
MAPP  CGCT 1112   000000 00                   31.      23.      8.5    29.99
 1.03     0.72    31.02     0.00     2.80     0.09     0.81    34.76
UPNY  CGCT 0112   000000 00                   13.       5.      4.6    31.51
 1.03     0.17    32.54     0.00     2.80     0.04     0.21    39.48
UPNY  CGCT 0122   000000 00                  145.      58.      4.6    31.98
 1.03     1.93    33.01     0.00     2.80     0.41     2.34    39.96
NYC   CGCT 0112   000000 00                    2.       4.     25.7    35.38
 1.03     0.16    36.41     0.00     2.80     0.01     0.17    37.66
LILC  CGCT 0111   000000 00                    1.       4.     41.5    29.92
 1.03     0.11    30.95     0.00     2.80     0.00     0.12    31.72
LILC  CGCT 0112   000000 00                   15.      55.     41.5    33.86
 1.03     1.90    34.89     0.00     2.80     0.04     1.95    35.66
NENG  CGCT 0912   000000 00                    7.       8.     13.8    33.39
 1.03     0.29    34.42     0.00     2.80     0.02     0.31    36.73
NENG  CGCT 0922   000000 00                  346.     140.      4.6    37.00
 1.03     5.31    38.03     0.00     2.80     0.97     6.28    44.97
NENGCTCGCT 3112   000000 00                    3.       4.     13.8    32.28
 1.03     0.12    33.31     0.00     2.80     0.01     0.13    35.62
NENGNHCGCT 3012   000000 00                    5.       2.      4.6    36.99
 1.03     0.08    38.02     0.00     2.80     0.01     0.09    44.96
FRCCFLCGCT 1512   000000 00                   27.      48.     20.4    33.57
 1.03     1.67    34.60     0.00     2.80     0.08     1.74    36.17
FRCCFLCGCT 1522   000000 00                  336.     252.      8.5    37.02
 1.03     9.57    38.05     0.00     2.80     0.94    10.51    41.79
VACANCCGCT 0612   000000 00                    2.       1.      8.5    33.05
 1.03     0.05    34.08     0.00     2.80     0.01     0.06    37.82
VACAVACGCT 0311   000000 00                    7.      16.     25.7    28.50
 1.03     0.46    29.53     0.00     2.80     0.02     0.48    30.77
VACAVACGCT 0312   000000 00                   11.       8.      8.5    35.63
 1.03     0.30    36.66     0.00     2.80     0.03     0.33    40.40
TVA   CGCT 0622   000000 00                  308.      53.      2.0    33.32
 1.03     1.82    34.35     0.00     2.80     0.86     2.68    50.60
SOU   CGCT 0612   000000 00                    4.       7.     20.4    30.16
 1.03     0.22    31.19     0.00     8.80     0.04     0.26    36.12
SOU MSCGCT 1622   000000 00                   70.     125.     20.4    29.87
 1.03     3.86    30.90     0.00     2.80     0.20     4.06    32.46
ENTG  CGCT 1012   000000 00                   12.       2.      2.0    28.93
 1.03     0.06    29.96     0.00     2.80     0.03     0.10    46.22
ENTG  CGCT 1022   000000 00                  751.      74.      1.1    33.11
 1.03     2.54    34.14     0.00     2.80     2.10     4.64    62.40
ENTGTXCGCT 2712   000000 00                    1.       0.      2.0    29.88
 1.03     0.01    30.91     0.00     2.80     0.00     0.01    47.17
ENTGTXCGCT 2722   000000 00                   75.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.21     0.21     0.00
SPPN  CGCT 1712   000000 00                   15.       8.      5.9    30.82
 1.03     0.25    31.85     0.00     2.80     0.04     0.29    37.26
SPPS  CGCT 1012   000000 00                    4.       3.      8.5    30.12
 1.03     0.09    31.15     0.00     2.80     0.01     0.10    34.89
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.498
Total Annual Costs
Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| VOM | | | Total | | | Capital | | FOM | | | | Total | | Total | | | | | |
| Unit | Name | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | |
| l/kWh | | | MMUS$ | | mill/kWh | US$/kW/a | | US$/kW/a | | | | MMUS$ | MMUS$ | mill/kWh | | | | | |
| SPPS | CGCT | 3612 | 000000 | 00 | | | | | | | | 43. | 77. | 20.4 | 26.93 | | | | |
| 1.03 | | 2.15 | | 27.96 | | 0.00 | | 2.80 | | | | 0.12 | 2.27 | 29.53 | | | | | |
| SPPS | CGCT | 3622 | 000000 | 00 | | | | | | | | 55. | 98. | 20.4 | 27.94 | | | | |
| 1.03 | | 2.85 | | 28.97 | | 0.00 | | 2.80 | | | | 0.15 | 3.00 | 30.54 | | | | | |
| SPPSTX | CGCT | 3512 | 000000 | 00 | | | | | | | | 20. | 36. | 20.4 | 27.01 | | | | |
| 1.03 | | 1.00 | | 28.04 | | 0.00 | | 2.80 | | | | 0.06 | 1.06 | 29.61 | | | | | |
| SPPSTX | CGCT | 3522 | 000000 | 00 | | | | | | | | 254. | 454. | 20.4 | 27.05 | | | | |
| 1.03 | | 12.74 | | 28.08 | | 0.00 | | 2.80 | | | | 0.71 | 13.45 | 29.65 | | | | | |
| CALI | CGCT | 0811 | 000000 | 00 | | | | | | | | 25. | 181. | 82.4 | 27.20 | | | | |
| 1.03 | | 5.10 | | 28.23 | | 0.00 | | 7.80 | | | | 0.20 | 5.29 | 29.31 | | | | | |
| CALI | CGCT | 0812 | 000000 | 00 | | | | | | | | 369. | 1472. | 45.5 | 30.37 | | | | |
| 1.03 | | 46.23 | | 31.40 | | 0.00 | | 8.30 | | | | 3.06 | 49.30 | 33.48 | | | | | |
| CALI | CGCT | 0821 | 000000 | 00 | | | | | | | | 162. | 1170. | 82.4 | 26.93 | | | | |
| 1.03 | | 32.72 | | 27.96 | | 0.00 | | 2.80 | | | | 0.45 | 33.17 | 28.35 | | | | | |
| CALI | CGCT | 0822 | 000000 | 00 | | | | | | | | 2348. | 4647. | 22.6 | 31.95 | | | | |
| 1.03 | | 153.24 | | 32.98 | | 0.00 | | 2.90 | | | | 6.81 | 160.05 | 34.44 | | | | | |
| AZNM | CGCT | 0822 | 000000 | 00 | | | | | | | | 57. | 43. | 8.5 | 28.21 | | | | |
| 1.03 | | 1.25 | | 29.24 | | 0.00 | | 2.80 | | | | 0.16 | 1.41 | 32.98 | | | | | |
| RMPA | CGCT | 0812 | 000000 | 00 | | | | | | | | 3. | 1. | 4.6 | 26.30 | | | | |
| 1.03 | | 0.03 | | 27.33 | | 0.00 | | 2.80 | | | | 0.01 | 0.04 | 34.27 | | | | | |
| RMPA | CGCT | 0821 | 000000 | 00 | | | | | | | | 36. | 132. | 41.9 | 23.11 | | | | |
| 1.03 | | 3.19 | | 24.14 | | 0.00 | | 2.80 | | | | 0.10 | 3.29 | 24.90 | | | | | |
| RMPA | CGCT | 0822 | 000000 | 00 | | | | | | | | 71. | 16. | 2.6 | 30.12 | | | | |
| 1.03 | | 0.51 | | 31.15 | | 0.00 | | 2.80 | | | | 0.20 | 0.71 | 43.27 | | | | | |
| MECS | CGCC | 0413 | 000000 | 00 | | | | | | | | 57. | 68. | 13.6 | 29.16 | | | | |
| 1.03 | | 2.04 | | 30.19 | | 0.00 | | 13.90 | | | | 0.79 | 2.84 | 41.90 | | | | | |
| MECS | CGCC | 0421 | 000000 | 00 | | | | | | | | 738. | 3622. | 56.0 | 21.73 | | | | |
| 1.03 | | 82.42 | | 22.76 | | 0.00 | | 13.90 | | | | 10.26 | 92.68 | 25.59 | | | | | |
| MECS | CGCC | 0422 | 000000 | 00 | | | | | | | | 724. | 2580. | 40.7 | 24.26 | | | | |
| 1.03 | | 65.24 | | 25.29 | | 0.00 | | 13.90 | | | | 10.06 | 75.31 | 29.19 | | | | | |
| MECS | CGCC | 0423 | 000000 | 00 | | | | | | | | 977. | 614. | 7.2 | 31.19 | | | | |
| 1.03 | | 19.80 | | 32.22 | | 0.00 | | 13.90 | | | | 13.58 | 33.38 | 54.33 | | | | | |
| ECAO | CGCC | 0422 | 000000 | 00 | | | | | | | | 525. | 1871. | 40.7 | 23.99 | | | | |
| 1.03 | | 46.81 | | 25.02 | | 0.00 | | 13.90 | | | | 7.30 | 54.11 | 28.93 | | | | | |
| ERCTTX | CGCC | 1911 | 000000 | 00 | | | | | | | | 19. | 42. | 25.3 | 15.52 | | | | |
| 1.03 | | 0.70 | | 16.55 | | 0.00 | | 13.90 | | | | 0.26 | 0.96 | 22.82 | | | | | |
| ERCTTX | CGCC | 1912 | 000000 | 00 | | | | | | | | 28. | 11. | 4.5 | 21.13 | | | | |
| 1.03 | | 0.25 | | 22.16 | | 0.00 | | 13.90 | | | | 0.39 | 0.63 | 57.35 | | | | | |
| ERCTTX | CGCC | 1913 | 000000 | 00 | | | | | | | | 18. | 7. | 4.5 | 27.02 | | | | |
| 1.03 | | 0.20 | | 28.05 | | 0.00 | | 19.90 | | | | 0.36 | 0.56 | 78.42 | | | | | |
| ERCTTX | CGCC | 1921 | 000000 | 00 | | | | | | | | 368. | 651. | 20.2 | 18.15 | | | | |
| 1.03 | | 12.50 | | 19.18 | | 0.00 | | 19.90 | | | | 7.32 | 19.82 | 30.43 | | | | | |
| ERCTTX | CGCC | 1922 | 000000 | 00 | | | | | | | | 2500. | 5547. | 25.3 | 21.96 | | | | |
| 1.03 | | 127.55 | | 22.99 | | 0.00 | | 14.00 | | | | 35.00 | 162.55 | 29.30 | | | | | |
| ERCTTX | CGCC | 1923 | 000000 | 00 | | | | | | | | 110. | 43. | 4.5 | 26.59 | | | | |
| 1.03 | | 1.20 | | 27.62 | | 0.00 | | 14.30 | | | | 1.57 | 2.77 | 63.82 | | | | | |
| ERCTTX | CGCC | 2313 | 000000 | 00 | | | | | | | | 3. | 7. | 25.3 | 27.14 | | | | |
| 1.03 | | 0.19 | | 28.17 | | 0.00 | | 14.00 | | | | 0.04 | 0.23 | 34.48 | | | | | |

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ERCTTXCGCC 2322   000000 00                  1513.    6952.     52.5    21.73
 1.03   158.24    22.76     0.00    13.90    21.03   179.27     25.79
ERCTTXCGCC 2323   000000 00                   246.     436.     20.2    29.97
 1.03    13.50    31.00     0.00    13.90     3.42    16.92     38.86
ERCTTXCGCC 2711   000000 00                    81.     641.     90.4    15.73
 1.03    10.75    16.76     0.00    13.90     1.13    11.88     18.52
ERCTTXCGCC 2722   000000 00                   782.    3593.     52.5    22.56
 1.03    84.78    23.59     0.00    13.90    10.87    95.65     26.62
ERCTTXCGCC 3513   000000 00                    77.     136.     20.2    30.10
 1.03     4.24    31.13     0.00    14.90     1.15     5.39     39.55
ERCTTXCGCC 3523   000000 00                   217.     384.     20.2    28.65
 1.03    11.40    29.68     0.00    14.90     3.23    14.64     38.10
MACE  CGCC 0111   000000 00                    21.     148.     80.6    22.04
 1.03     3.42    23.07     0.00    13.90     0.29     3.71     25.04
MACE  CGCC 0112   000000 00                    16.      19.     13.6    27.46
 1.03     0.54    28.49     0.00    13.90     0.22     0.76     40.20
MACE  CGCC 0113   000000 00                    76.      90.     13.6    31.09
 1.03     2.90    32.12     0.00    13.90     1.06     3.95     43.83
MACE  CGCC 0121   000000 00                    41.     244.     67.8    22.06
 1.03     5.62    23.09     0.00    13.90     0.57     6.19     25.43
MACE  CGCC 0122   000000 00                  1517.    1801.     13.6    26.64
 1.03    49.83    27.67     0.00    13.90    21.09    70.92     39.38
MACE  CGCC 0123   000000 00                   628.     745.     13.6    31.68
 1.03    24.39    32.71     0.00    14.20     8.92    33.30     44.68
MACE  CGCC 0221   000000 00                   188.    1327.     80.6    18.98
 1.03    26.56    20.01     0.00    13.90     2.61    29.17     21.98
MACE  CGCC 0222   000000 00                   725.    4306.     67.8    24.94
 1.03   111.83    25.97     0.00    13.90    10.08   121.90     28.31
MACW  CGCC 0213   000000 00                    80.      95.     13.6    31.42
 1.03     3.08    32.45     0.00    13.90     1.11     4.19     44.16
MACW  CGCC 0223   000000 00                   206.     158.      8.8    31.10
 1.03     5.09    32.13     0.00    13.90     2.86     7.95     50.21
MACS  CGCC 0223   000000 00                   277.     329.     13.6    32.70
 1.03    11.09    33.73     0.00    13.90     3.85    14.94     45.44
MANO  CGCC 0412   000000 00                     7.      18.     28.9    23.36
 1.03     0.43    24.39     0.00    13.90     0.10     0.53     29.88
MANO  CGCC 0413   000000 00                     1.       1.     13.6    29.01
 1.03     0.04    30.04     0.00    19.90     0.02     0.06     46.80
MANO  CGCC 0422   000000 00                    40.      47.     13.6    23.28
 1.03     1.15    24.31     0.00    13.90     0.56     1.71     36.02
UPNY  CGCC 0112   000000 00                   139.     539.     44.2    27.20
 1.03    15.21    28.23     0.00    13.90     1.93    17.14     31.81
UPNY  CGCC 0113   000000 00                   153.     129.      9.6    30.16
 1.03     4.02    31.19     0.00    14.00     2.14     6.17     47.79
UPNY  CGCC 0122   000000 00                  1566.    9343.     68.1    25.67
 1.03   249.49    26.70     0.00    13.90    21.77   271.26     29.03
UPNY  CGCC 0123   000000 00                   877.     583.      7.6    30.01
 1.03    18.09    31.04     0.00    13.90    12.19    30.28     51.96
DSNY  CGCC 0113   000000 00                    35.      89.     28.9    31.53
 1.03     2.88    32.56     0.00    13.90     0.49     3.37     38.05
DSNY  CGCC 0123   000000 00                   487.    1071.     25.1    31.82
 1.03    35.17    32.85     0.00    13.90     6.77    41.94     39.17
NYC   CGCC 0112   000000 00                    15.      53.     40.7    32.24
 1.03     1.78    33.27     0.00    13.90     0.21     1.99     37.17
NYC   CGCC 0113   000000 00                    46.     164.     40.7    33.52
 1.03     5.66    34.55     0.00    14.10     0.65     6.31     38.51
LILC  CGCC 0112   000000 00                    13.     103.     90.4    25.79
 1.03     2.76    26.82     0.00    13.90     0.18     2.94     28.58
LILC  CGCC 0113   000000 00                    61.     135.     25.3    34.23
 1.03     4.77    35.26     0.00    13.90     0.85     5.62     41.53
LILC  CGCC 0122   000000 00                    43.     255.     67.8    25.79
 1.03     6.85    26.82     0.00    13.90     0.60     7.45     29.16
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.499
Total Annual Costs
Year: 2015

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ENTGTXCGCC 1922   000000 00                    353.     182.      5.9    22.72
 1.03     4.32    23.75     0.00    13.90     4.91     9.22    50.74
ENTGTXCGCC 2712   000000 00                     25.     198.     90.4    22.72
 1.03     4.70    23.75     0.00    13.90     0.35     5.05    25.50
ENTGTXCGCC 2722   000000 00                    513.     379.      8.4    22.72
 1.03     9.00    23.75     0.00    13.90     7.13    16.13    42.57
SPPS  CGCC 1022   000000 00                    448.    3427.     87.3    21.31
 1.03    76.56    22.34     0.00    13.90     6.23    82.78    24.15
SPPS  CGCC 3622   000000 00                    450.    3564.     90.4    21.31
 1.03    79.61    22.34     0.00    13.90     6.25    85.86    24.09
SPPS  CGCC 3623   000000 00                    108.     191.     20.2    28.12
 1.03     5.57    29.15     0.00    13.90     1.50     7.07    37.00
CALI  CGCC 0811   000000 00                      1.       8.     90.4    20.96
 1.03     0.17    21.99     0.00    13.90     0.01     0.19    23.74
CALI  CGCC 0812   000000 00                    213.    1504.     80.6    26.43
 1.03    41.30    27.46     0.00    14.20     3.02    44.32    29.47
CALI  CGCC 0813   000000 00                    319.    1237.     44.2    30.46
 1.03    38.94    31.49     0.00    14.50     4.63    43.57    35.23
CALI  CGCC 0822   000000 00                   2938.   23268.     90.4    24.33
 1.03   590.07    25.36     0.00    13.90    40.84   630.91    27.12
CALI  CGCC 0823   000000 00                    840.    3256.     44.2    30.56
 1.03   102.86    31.59     0.00    14.60    12.26   115.12    35.36
PNW   CGCC 0722   000000 00                    165.    1307.     90.4    19.14
 1.03    26.35    20.17     0.00    13.90     2.29    28.65    21.92
PNW   CGCC 0723   000000 00                    123.     974.     90.4    26.06
 1.03    26.39    27.09     0.00    13.90     1.71    28.10    28.85
PNW   CGCC 0812   000000 00                     13.     103.     90.4    20.55
 1.03     2.22    21.58     0.00    13.90     0.18     2.40    23.33
PNW   CGCC 0822   000000 00                    820.    6494.     90.4    20.22
 1.03   138.01    21.25     0.00    13.90    11.40   149.41    23.01
AZNM  CGCC 0812   000000 00                     73.     434.     67.8    24.12
 1.03    10.90    25.15     0.00    13.90     1.01    11.92    27.49
AZNM  CGCC 0813   000000 00                    102.     501.     56.0    26.64
 1.03    13.85    27.67     0.00    13.90     1.42    15.27    30.50
AZNM  CGCC 0822   000000 00                   1190.    7068.     67.8    21.71
 1.03   160.71    22.74     0.00    13.90    16.54   177.25    25.08
AZNM  CGCC 0823   000000 00                    113.     555.     56.0    26.98
 1.03    15.54    28.01     0.00    13.90     1.57    17.11    30.84
RMPA  CGCC 0812   000000 00                     55.     194.     40.3    24.16
 1.03     4.89    25.19     0.00    13.90     0.76     5.66    29.12
RMPA  CGCC 0813   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.90     0.00     0.00     0.00
RMPA  CGCC 0822   000000 00                    144.     509.     40.3    23.45
 1.03    12.45    24.48     0.00    13.90     2.00    14.45    28.41
RMPA  CGCC 0823   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.10     0.00     0.00     0.00
NWPE  CGCC 0811   000000 00                     10.      79.     90.4    16.38
 1.03     1.38    17.41     0.00    13.90     0.14     1.52    19.16
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Cgn_Gas                      23           42570.  145280.     39.0    24.40
 1.03  3695.13    25.43     0.02    11.91   507.58  4202.71    28.93

ERCTTXCGGAU1811   000000 00                      2.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.04     0.04     0.00
MACE  CGGAU0221   000000 00                     55.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.18     1.18     0.00
MANO  CGGAU0411   000000 00                     16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.17     0.17     0.00
FRCCFLCGGAU1511   000000 00                     16.      29.     20.9    29.10
 2.57     0.93    31.67     0.00    16.70     0.27     1.19    40.80
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.500
Total Annual Costs
Year: 2015

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ts Fixed Costs Total Costs Variable Cos
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Capacity Gener. C.F. Fuel
VOM Total Capital FOM Total Total
Unit Name [MW] [GWh] [%] mill/kWh mil
l/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
--- --- --- --- --- --- --- ---
TVA CGGAU0611 000000 00 12. 0. N/A 0.00
0.00 0.00 0.00 0.00 19.70 0.24 0.24 0.00
ENTG CGGAU1011 000000 00 1. 0. N/A 0.00
0.00 0.00 0.00 0.00 19.70 0.02 0.02 0.00
NENG CGHSC2821 000000 00 530. 0. N/A 0.00
0.00 0.00 0.00 0.00 20.00 10.61 10.61 0.00
CALI CGLSN0821 000000 00 430. 2864. 76.0 24.03
3.02 77.49 27.05 0.00 21.60 9.29 86.78 30.30
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Cgn_Oil 24 1062. 2894. 31.1 24.08
3.02 78.42 27.10 0.00 20.53 21.81 100.22 34.64

MECS CGBIO00 42 000000 00 19. 146. 87.7 5.89
5.36 1.64 11.25 0.00 44.80 0.85 2.49 17.08
ECAO CGBIO00 42 000000 00 6. 46. 87.7 5.89
5.36 0.52 11.25 0.00 44.80 0.27 0.79 17.08
MACW CGBIO00 44 000000 00 11. 85. 87.7 5.28
5.36 0.90 10.64 0.00 44.80 0.49 1.39 16.47
NENG CGBIO00 48 000000 00 72. 421. 66.7 21.19
5.36 11.16 26.55 0.00 44.80 3.23 14.39 34.22
FRCC CGBIO00 49 000000 00 61. 469. 87.7 5.64
5.36 5.15 11.00 0.00 44.80 2.73 7.89 16.83
VACA CGBIO00 50 000000 00 34. 261. 87.7 5.64
5.36 2.87 11.00 0.00 44.80 1.52 4.40 16.83
SOU CGBIO00 50 000000 00 5. 38. 87.7 5.64
5.36 0.42 11.00 0.00 44.80 0.22 0.65 16.83
ENTG CGBIO00 51 000000 00 8. 61. 87.7 5.64
5.36 0.68 11.00 0.00 44.80 0.36 1.03 16.83
SPPS CGBIO00 51 000000 00 2. 15. 87.7 5.64
5.36 0.17 11.00 0.00 44.80 0.09 0.26 16.83
CALI CGBIO00 54 000000 00 74. 569. 87.7 18.09
5.36 13.33 23.45 0.00 44.80 3.32 16.65 29.29
PNW CGBIO00 52 000000 00 96. 738. 87.7 8.71
5.36 10.38 14.07 0.00 44.80 4.30 14.68 19.90
RMPA CGBIO00 53 000000 00 7. 54. 87.7 9.93
5.36 0.82 15.29 0.00 44.80 0.31 1.14 21.12
ERCTTXCGFWT192 000000 00 162. 64. 4.5 0.00
0.00 0.00 0.00 0.00 103.60 16.78 16.78 263.43
ENTG CGFWT102 000000 00 170. 1340. 90.0 0.00
0.00 0.00 0.00 0.00 103.60 17.61 17.61 13.14
CALI CGFWT082 000000 00 29. 229. 90.0 0.00
0.00 0.00 0.00 0.00 103.60 3.00 3.00 13.14
MECS CGOTH00 000000 00 54. 415. 87.7 0.00
0.00 0.00 0.00 0.00 103.60 5.59 5.59 13.48
ERCT CGOTH00 000000 00 1. 8. 87.7 0.00
0.00 0.00 0.00 0.00 103.60 0.10 0.10 13.48
MACW CGOTH00 000000 00 25. 192. 87.7 0.00
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 0.00     0.00     0.00     0.00   103.60     2.59     2.59    13.48
MACS  CGOTH00     000000 00                   54.     415.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     5.59     5.59    13.48
MAPP  CGOTH00     000000 00                    2.      15.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     0.21     0.21    13.48
UPNY  CGOTH00     000000 00                   44.     338.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     4.56     4.56    13.48
DSNY  CGOTH00     000000 00                    7.      54.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     0.73     0.73    13.48
NENG  CGOTH00     000000 00                   27.     207.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     2.80     2.80    13.48
FRCC  CGOTH00     000000 00                   22.     169.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     2.28     2.28    13.48
VACA  CGOTH00     000000 00                   10.      77.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.48
SPPS  CGOTH00     000000 00                   34.     261.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.48
CALI  CGOTH00     000000 00                   29.     223.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     3.00     3.00    13.48
NWPE  CGOTH00     000000 00                   10.      77.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.48
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Cgn_Other                      25            1075.    6985.     74.2     4.65
 2.23    48.05     6.88     0.00    81.99    88.14   136.19    19.50

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NonCG IPP_Coal                 26               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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NonCG IPP_Gas                  27               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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NonCG IPP_Other                28               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Coal                       29               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Gas                        30               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Oil                        31               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1311162040310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1311162050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANOMOTCOLU0511282050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0711312050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111261040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111271040210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111261040310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111252020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111262050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131272020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131252020210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311161010710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311162020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311162040210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022050110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022020210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022050210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Total Annual Costs
Year: 2015

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ECAO  TCOLS0231411020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0611182020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLS1111252020203 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411181020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411182020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0611191020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOMDTOLBU0231082020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0232032050110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1312162020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MANO | TOLBU0432192010210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTOLBU0532281010110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TOLBU1141252020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOTOLBU0512282020110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOTOLBU0532281010110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTOLBU0632101020210 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTOLBU0632102020110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020210 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1732282020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLBU0511281020110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLBU0531281010110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLBU0531281020110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLBU0531282020110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLBU0532281010110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTOLBS0432142020304 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITOLBS1312162030304 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TOLBS0432191010103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TOLBS0432192010203 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLSU0542281010110 01 CC01 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TOLSU0812321020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TRRBU0432042020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TRRBS0832342030304 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAO TSABU0441201020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSABC2941011010101 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSABN0241032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABS0241032020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020303 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020303 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPS | TSASU3641282020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TSASU3541292020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TSASU3541292020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSASU0832342020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSASU0841342020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0742322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0841322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0842322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSBBU0441392020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0632061020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0632062020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0641062020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINT | SBBU0441182020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SBBU0431042020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SBBU0441041020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SBBU0441042020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILT | SBBU0441181010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1112271020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1112272040210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1131262020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1131262020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1132271040110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNET | SBBU1432282020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNET | SBBU1441282010310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPPNETSBBU1442282010310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 CC01 0. 0. N/A 0.00
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SOU TSBBU0632112020110 01 CC01 0. 0. N/A 0.00
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SOU TSBBU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSBBU0812341020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241042020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0231032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0241032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSBBN0141031010102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBN0641102020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341091020102 01 CC01 0. 0. N/A 0.00
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VACAVATSBBN0341092020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341092020202 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.505
Total Annual Costs
Year: 2015

| Unit Name | | |

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WUMSWITSCSU1341162020510 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1142252020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSCSU1342162020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSDBU0241081020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     CC01         152.    1204.     90.4    24.43
 1.95    31.76    26.38    64.89    11.70    11.64    43.40    36.05
NENG  TSDBN2841012020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSEBU0442142020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0232032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0241032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBU1141252020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0632232020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020401 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSEBC0641221010101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBN0441142020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBN2842012020102 01 CC01 | 61. | 483. | 90.4 | 24.43 | 1.95 | 12.75 | 26.38 | 64.89 | 11.70 | 4.67 | 17.42 | 36.05 |
| ECAOOHTSEBS0431141010103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBS1142252020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSEBS1541132020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312010110 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312020110 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MANO TSESU0441172010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 CC01 0. 0. N/A 0.00
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ECAO TSFBU0431142020210 01 CC01 0. 0. N/A 0.00
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ECAO TSFBU0432142020110 01 CC01 0. 0. N/A 0.00
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ECAO TSFBU0432142020210 01 CC01 0. 0. N/A 0.00
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ECAOKYTSFBU0641201020210 01 CC01 0. 0. N/A 0.00
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MANOMOTSFBU0542251010110 01 CC01 0. 0. N/A 0.00
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UPNY TSFBU0131022020210 01 CC01 0. 0. N/A 0.00
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NENG TSFBU2832012020110 01 CC01 0. 0. N/A 0.00
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SOU TSFBU0641112020110 01 CC01 0. 0. N/A 0.00
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SOU TSFBU0642112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 CC01 0. 0. N/A 0.00
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MECSMITSGBU0431392020110 01 CC01 0. 0. N/A 0.00
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MECSMITSGBU0432391050210 01 CC01 0. 0. N/A 0.00
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MECSMITSGBU0441392020110 01 CC01 0. 0. N/A 0.00
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ECAOOHTSGBU0441141010110 01 CC01 0. 0. N/A 0.00
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ECAOOHTSGBU0441142020110 01 CC01 0. 0. N/A 0.00
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MACS TSGBU0241082020110 01 CC01 0. 0. N/A 0.00
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WUMSWITSGBU1231392020110 01 CC01 0. 0. N/A 0.00
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WUMSWITSGBU1232392020310 01 CC01 0. 0. N/A 0.00
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MANOILTSGBU0431192020110 01 CC01 0. 0. N/A 0.00
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MANOILTSGBU0432192020110 01 CC01 0. 0. N/A 0.00
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MANOMOTSGBU0511271040310 01 CC01 0. 0. N/A 0.00
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MANOMOTSGBU0511272020710 01 CC01 0. 0. N/A 0.00
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MANOMOTSGBU0531272040310 01 CC01 0. 0. N/A 0.00
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MAPP TSGBU1132271010110 01 CC01 0. 0. N/A 0.00
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MAPP TSGBU1132272020110 01 CC01 0. 0. N/A 0.00
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MAPP TSGBU1132272020210 01 CC01 0. 0. N/A 0.00
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MAPP TSGBU1141272020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | |

WUMSWITSHBU1332162010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 CC01 0. 0. N/A 0.00
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MECS TSIBU0432392020110 01 CC01 0. 0. N/A 0.00
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MECS TSIBU0441392020110 01 CC01 0. 0. N/A 0.00
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MECS TSIBU0442392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 CC01 0. 0. N/A 0.00
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MAPP TSISU1132262020110 01 CC01 0. 0. N/A 0.00
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MAPP TSISU1132262020310 01 CC01 0. 0. N/A 0.00
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MAPP TSISU1142262020110 01 CC01 0. 0. N/A 0.00
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MAPPWITSISU1341392020110 01 CC01 0. 0. N/A 0.00
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ENTGMOTSISU0541271010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391050710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOINTSKBU0432182020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS TSKBU0411391020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0632102020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0641102020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSKSU1141261010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSLBU0432152020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSLBU0441152020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0231052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0232052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0241052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0411141020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0411141050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0412141020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0432141020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0632182020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACENJTSLBU0112032020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSLBU1341392020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSLBU1112261020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSLBU1412281020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSLBU0531281020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTSLBN2932012020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSLSU0641222020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSLSU0712261020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBS0541272020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AZNM TSUBS0841361020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0441142020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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AZNM  TSXSS0842352020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSXSS0832402020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0742322020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBU0432191010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0432192020204 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0441192020103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBS0441191010103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741282020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBA0441192020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1741282020304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0431192020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0432192010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBS0431142010103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBS1541121020103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0841322020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0842322020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CGCOU0431392050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOU0231412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOU0411142050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0211412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0211412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0231412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0232412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICGCOU1211162050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICGCOU1311162050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGCOU1111262050210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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MACW  CGCOD0231412050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSXBA0141022020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSXBA1541122020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSXBA1541132020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSXBA0641101020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSXBA0642101020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSXBA0641222020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSXBA0641222020705 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSASS0732312020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASS0841342020303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBA0341092020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSABA1541132020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBA1541122020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLA0411182020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLA0831402020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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SPPNMOTSUBU0541272020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Rep.Coal-CC                   34             213.    1687.     90.4    24.43
 1.95    44.50    26.38    64.89    11.70    16.31    60.82    36.05

MECS  STGAU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2711   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0111   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0121   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  STGAU0412   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1311   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1321   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOSTGAU0511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  STGAU1111   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  STGAU1112   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.512
Total Annual Costs
Year: 2015

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SPPNMOSTGAU0521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1011   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3611   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTGAU1611   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU3511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAU0811   000000 00     OC01          80.     634.     90.4    22.97
 1.95    15.79    24.92    62.57    11.70     5.94    21.73    34.30
CALI  STGAU0821   000000 00     OC01         144.    1139.     90.4    22.97
 1.95    28.39    24.92    62.57    11.70    10.68    39.07    34.30
AZNM  STGAU0811   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  STGAU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0811   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  STGAU0822   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0422   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU1821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2321   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0112   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0121   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0222   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.513
Total Annual Costs
Year: 2015

| Unit | Name | | |

CALI STHSU0821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSN0121 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSN3221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2212 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2222 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2321 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2322 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2422 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2511 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2512 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2522 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3522 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0121 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0122 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.514
Total Annual Costs
Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FRCCFLSTLSU1521 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLSTLSU1522 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVASTLSU0321 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVASTLSU0322 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSSTLSU1621 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSSTLSU1622 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG STLSU1021 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG STLSU1022 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSSTLSU1621 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSSTLSU1622 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXSTLSU1821 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOSTLSU0512 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOSTLSU0521 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS STLSU0821 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS STLSU0822 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS STLSU1011 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS STLSU1012 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS STLSU1021 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS STLSU1022 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS STLSU3612 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS STLSU3621 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS STLSU3622 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSMSSTLSU1612 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXSTLSU2221 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXSTLSU2222 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXSTLSU2521 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXSTLSU2522 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXSTLSU3522 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI STLSU0821 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI STLSU0822 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW STLSU0721 | 000000 | 00 | OC01 | 94. | 744. | 90.4 | 19.14 | 1.95 | 15.70 | 21.09 | 58.95 | 11.70 | 6.64 | 22.34 | 30.01 |

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.515
Total Annual Costs
Year: 2015

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ERCTTXSTHSO2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO3521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2022   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STLSO0922   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STGAO0111   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAC0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STHSD2821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Rep.O/G-CC                    35            7604.   60217.     90.4    23.33
 1.95  1522.18    25.28    57.02    11.70   522.53  2044.71    33.96

MECS  TCOLU0411392050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431152020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431392020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0211412050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0231082020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0411181050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0411142050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431041020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431141020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431142020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431182020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431192020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431042050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0611062020210 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0631051020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0631202020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATCOLU0331062020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0211412050210 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0231031020310 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2015

| | | |

MAPPWITCOLU1311162040210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0131022020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TCOLU0911012050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTCOLU1531132020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631041050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATCOLU0331092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731281020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLU0511252050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLU0511272050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTCOLU3531292050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0811372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0832372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811351020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811402050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811342050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811352050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0811332050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLN0131022020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTCOLN2931012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0231411020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0611182020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0631041050303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | |

MACW TOLBU0231032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0232032050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBU1311161020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBU1312162020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0512282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632101020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1732282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0511281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBS0432142020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBS1312162030304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBS0432191010103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBS0432192010203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TOLSU0812321020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TRRBS0832342030304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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ERCTTXTSASU2341292020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0841342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 CG02 0. 0. N/A 0.00
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ECAO TSBBU0632061020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 CG02 0. 0. N/A 0.00
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MAPP TSBBU1112271020710 01 CG02 0. 0. N/A 0.00
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MAPP TSBBU1112272040210 01 CG02 0. 0. N/A 0.00
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MAPP TSBBU1131262020110 01 CG02 0. 0. N/A 0.00
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MAPP TSBBU1131262020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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MAPPNETSBSU1432282020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSCBU0131032020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSCBU0231032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1131272010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1131252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1132252020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0131022020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1731282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0832342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSCBN0241032020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSO0441182010102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.520
Total Annual Costs
Year: 2015

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MAPP TSDSU1132252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBC0241072020101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBC0641102020101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBC0641102020401 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSEBC0641221010101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBS0431141010103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBS1142252020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSEBS1541132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | | | | Total | | Capital | | FOM | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| UPNY | TSFBO0141022020102 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFBU0431142020210 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFBU0432142020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSFBU0432142020210 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOKY | TSFBU0641201020210 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOT | SFBU0542251010110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| UPNY | TSFBU0131022020210 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NENG | TSFBU2832012020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SOU | TSFBU0641112020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SOU | TSFBU0642112020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TSFBU1742282020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMIT | SGBU0431392020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMIT | SGBU0432391050210 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECSMIT | SGBU0441392020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441141010110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOH | TSGBU0441142020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | TSGBU0241082020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWIT | SGBU1231392020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWIT | SGBU1232392020310 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOILT | SGBU0431192020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOILT | SGBU0432192020110 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOT | SGBU0511271040310 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOT | SGBU0511272020710 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOT | SGBU0531272040310 | | 01 | | CG02 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

MAPP TSGBU1132271010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSGBU0511271020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBS1231392020104 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBS0412191020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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MECS TSKBU0412391020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSKBU0411391020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0632102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0432152020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0231052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0232052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0411141020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0411141050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0412141020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0432141020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0632182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSLBU0112032020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSLBU1112261020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSLBU1412281020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSLBU0531281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSLBN2932012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSLSU0712261020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

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UPNY TSXBS0141022020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841402020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841362020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBD0241041020207 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSXBD0141031010107 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSXBD0341092020307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302030303 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSXSS0832402020104 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.524
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MACW CGCOU0241412050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1211162050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1311162050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOU0131022050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCOU0931012050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CGCOU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0311092050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0331092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCOU0611112050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0811372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0831372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0832372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE CGCOU0731322050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOS0331092050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOD0231412050307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOD0131022050307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOD0631102050308 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.525
Total Annual Costs
Year: 2015

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RMPA  TCOLA0831402020105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSO1332392020102 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSJBO0412392020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBE0232041020207 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBE0242041020207 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TCOLC0141012050301 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLE0411391030308 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Rep.Coal-IGCC                  36               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSABU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00    22.44    30.88     0.00     0.00     0.00
MANO  TSABU0441182020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0541252020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0542252020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     ML02         101.     749.     85.0    16.56
 2.51    14.28    19.07    26.16    36.57     6.31    20.59    27.49
VACANCTSABU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00    26.28    32.58     0.00     0.00     0.00
TVA   TSABU0641202020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641232020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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SPPSTXTSASU3541292020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00    37.80    41.17     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSBBU0441181010110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00    24.96    38.21     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00    25.44    43.19     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00    22.56    34.97     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.528
Total Annual Costs
Year: 2015

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MAPPNETSBSU1441282020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBU0441041020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     ML02          65.     480.     85.0    11.70
 2.49     6.82    14.19    27.96    42.99     4.58    11.39    23.72
MACW  TSCBU0242032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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ECAOVATSDBU0341061020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | C.F. mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSEBU0442142020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 34.08 | 45.69 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0241032020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBU0442181010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBU0442181010110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBU1141252020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020310 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312010110 02 ML02 | 676. | 5030. | 85.0 | 9.69 | 2.64 | 62.00 | 12.33 | 29.04 | 37.37 | 44.86 | 106.86 | 21.24 |
| MAPPNDTSELU0742312020110 02 ML01 | 370. | 2756. | 85.0 | 9.38 | 2.62 | 33.08 | 12.00 | 31.56 | 44.69 | 28.22 | 61.30 | 22.24 |
| ECAO TSESU0441171010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MANO TSESU0441172020310 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641041020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 LO02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 LD02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| MECSMITSGBU0441392020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441141010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441141010110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSGBU0241082020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSGBU0241082020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSGBU1141272020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 43.79 | 0.00 |
| VACANCTSGBU0641102020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642101020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642101020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642102020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642102020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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TVA   TSGBU0642222020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00    24.00    37.30     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LD02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00    38.16    44.99     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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VACANCTSKBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSXBU0441192020110 01     LO01         227.    1692.     85.0     7.11
 2.93    16.98    10.04    29.88    38.09    15.44    32.42    19.16
MANO  TSXBU0441192020110 01     ML02         431.    3207.     85.0     8.58
 2.52    35.60    11.10    27.60    38.19    28.33    63.93    19.93
NWPE  TSXBU0841402020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00    28.80    23.55     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00    29.88    23.55     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPNMOTSUBU0541272020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.Scrubber 37 | 4232. | 31026. | 83.7 | 11.33 | 3.09 | 447.17 | 14.41 | 24.42 | 35.77 | 254.72 | 701.89 | 22.62 |
| NENGNHTSABC2941011010101 01 ML01 | 424. | 3157. | 85.0 | 12.82 | 3.49 | 51.47 | 16.31 | 27.72 | 40.11 | 28.75 | 80.22 | 25.41 |
| VACANCTSABC0641101020201 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABC0641101020201 01 ML02 | 685. | 5103. | 85.0 | 12.09 | 3.47 | 79.40 | 15.56 | 26.76 | 33.49 | 41.29 | 120.70 | 23.65 |
| SOU ALTSABC0641232020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBC0641061020101 01 LO01 | 783. | 5832. | 85.0 | 9.56 | 3.85 | 78.19 | 13.41 | 18.72 | 34.48 | 41.67 | 119.86 | 20.55 |
| ECAO TSDBC0641061020101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 ML02 | 1062. | 7910. | 85.0 | 8.10 | 3.42 | 91.16 | 11.52 | 21.36 | 41.50 | 66.77 | 157.93 | 19.97 |
| ECAOOHTSDBC0441042020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441042020101 01 ML02 | 490. | 3645. | 85.0 | 9.04 | 3.50 | 45.72 | 12.54 | 23.52 | 36.28 | 29.27 | 74.99 | 20.57 |
| VACANCTSDBC0641101020101 01 LO02 | 1086. | 8088. | 85.0 | 11.35 | 3.83 | 122.81 | 15.18 | 20.28 | 34.18 | 59.15 | 181.96 | 22.50 |
| VACANCTSDBC0641101020101 01 LD02 | 1107. | 8241. | 85.0 | 11.52 | 4.35 | 130.76 | 15.87 | 15.24 | 31.08 | 51.26 | 182.03 | 22.09 |
| ECAO TSEBC0641042020101 01 LO02 | 4112. | 30618. | 85.0 | 7.98 | 3.84 | 361.92 | 11.82 | 21.12 | 33.05 | 222.74 | 584.67 | 19.10 |
| ECAO TSEBC0641042020101 01 LD02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 ML02 | 317. | 2362. | 85.0 | 10.41 | 3.45 | 32.74 | 13.86 | 27.60 | 43.50 | 22.55 | 55.29 | 23.41 |
| MACS TSEBC0241072020201 01 LO01 | 1264. | 9411. | 85.0 | 11.40 | 3.93 | 144.26 | 15.33 | 21.48 | 23.02 | 56.25 | 200.51 | 21.30 |
| MACS TSEBC0241072020201 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBC0441181010101 01 LO01 | 542. | 4039. | 85.0 | 7.94 | 3.95 | 48.00 | 11.89 | 23.28 | 35.68 | 31.98 | 79.98 | 19.80 |
| MANO TSEBC0441181010101 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020101 01 ML02 | 473. | 3523. | 85.0 | 12.28 | | | | | | | |

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 3.49    55.54    15.77    26.16    37.18    29.96    85.50    24.27
VACASCTSEBC0641102020401 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBC0641112020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBC0641112020101 01     ML02         494.    3681.     85.0    12.94
 3.51    60.57    16.45    23.52    36.28    29.56    90.14    24.48
MACW  TSHBC0241411020101 01     LO01         607.    4520.     85.0     9.36
 3.87    59.81    13.23    21.36    35.28    34.38    94.19    20.84
MACW  TSHBC0241411020101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     LO01        2075.   15447.     85.0     8.60
 3.84   192.17    12.44    19.80    34.78   113.23   305.40    19.77
MACW  TSHBC0241412020101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBC0641112020101 01     LO01        4844.   36071.     85.0    12.31
 3.87   583.69    16.18    18.60    33.76   253.66   837.35    23.21
SOU   TSHBC0641112020101 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     ML01         220.    1640.     85.0    10.39
 3.53    22.83    13.92    27.60    38.58    14.58    37.41    22.81
ECAO  TSBBC0641062020201 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     ML02         294.    2187.     85.0    10.22
 3.52    30.05    13.74    29.88    38.38    20.05    50.10    22.91
ECAOOHTSBBC0441041020201 01     LD01         617.    4593.     85.0    10.26
 4.48    67.71    14.74    18.12    32.58    31.27    98.98    21.55
VACANCTSBBC0641101020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     ML02         377.    2807.     85.0    11.83
 3.45    42.88    15.28    25.68    42.80    25.81    68.69    24.47
VACANCTSBBC0641102020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     ML02         347.    2581.     85.0    12.11
 3.47    40.20    15.58    26.64    37.48    22.22    62.43    24.19
VACAVATSBBC0341092020101 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     ML02        1126.    8383.     85.0    11.08
 3.47   121.95    14.55    25.92    39.53    73.69   195.64    23.34
ECAOOHTSCBC0441041020101 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     LO01         861.    6408.     85.0     8.62
 3.81    79.67    12.43    17.64    39.90    49.51   129.18    20.16
TVA   TSCBC0641212020101 01     LD02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBC0641102020101 01     LO01         550.    4097.     85.0    12.50
 3.92    67.25    16.42    22.80    35.58    32.12    99.37    24.26
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.534
Total Annual Costs
Year: 2015

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capacity Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
VACANCTSGBC0641102020101 01 LD01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSKBC0641232020101 01 LO01 722. 5373. 85.0 9.31 3.88 70.87 13.19 19.68 34.78 39.29 110.17 20.50
SOU TSKBC0641232020101 01 LD01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBC0441181020101 01 LO01 1234. 9185. 85.0 7.52 3.89 104.81 11.41 21.36 35.28 69.87 174.68 19.02
ECAO TSLBC0441181020101 01 LD01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBC0441182020101 01 LO01 617. 4593. 85.0 7.65 3.91 53.09 11.56 21.60 31.19 32.56 85.65 18.65
ECAO TSLBC0441182020101 01 LD01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TCOLC0141012050301 01 LO01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TCOLC0141012050301 01 ML01 196. 1458. 85.0 13.81 3.55 25.31 17.36 30.00 24.06 10.59 35.89 24.62
MECSMITSFSC0441392020101 01 LD01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSC0441201020101 01 LO01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSC0441201020101 01 ML01 1001. 7450. 85.0 8.28 3.46 87.49 11.74 28.44 44.50 72.98 160.46 21.54
ECAOOHTSIBC0441041020101 01 LO01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSIBC0441041020101 01 ML01 993. 7392. 85.0 8.47 3.46 88.21 11.93 28.44 44.70 72.61 160.82 21.76
TVA TSLSC0641222020101 01 LO01 457. 3404. 85.0 8.37 3.92 41.85 12.29 25.08 41.90 30.62 72.48 21.29
TVA TSLSC0641222020101 01 ML02 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBC0641202020201 01 LO01 490. 3645. 85.0 7.11 3.91 40.18 11.02 24.24 31.89 27.48 67.66 18.56
ECAO TSXBC0641202020201 01 ML02 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret.ExistSCR & Scrub 38 30464. 226844. 85.0 9.98 3.79 3122.59 13.77 21.76 35.28 1737.72 4860.30 21.43

MACEDETSABN0241032020102 01 ML02 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241041020102 01 LO01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241041020102 01 ML02 490. 3645. 85.0 8.74 3.42 44.33 12.16 23.04 35.87 28.84 73.16 20.07
ECAO TSBBN0241042020102 01 LO01 0. 0. N/A 0.00
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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     ML01         160.    1188.     85.0     8.61
 3.41    14.28    12.02    32.16    45.39    12.38    26.65    22.43
NENG  TSDBN2841012020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBN0641042020102 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     LO01         584.    4352.     85.0     8.89
 3.76    55.05    12.65    21.24    34.87    32.79    87.85    20.19
ECAOOHTSGBN0441142020102 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     LO01         587.    4374.     85.0     8.29
 3.81    52.91    12.10    21.72    34.97    33.30    86.21    19.71
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Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAO TSHBN0441041020102 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020102 01 LO01 | 587. | 4374. | 85.0 | 8.21 | 3.80 | 52.51 | 12.01 | 21.60 | 34.97 | 33.23 | 85.74 | 19.60 |
| ECAO TSHBN0441042020102 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ExistSNCR & Scrub 39 | 2408. | 17933. | 85.0 | 8.53 | 3.69 | 219.08 | 12.22 | 22.53 | 35.82 | 140.54 | 359.62 | 20.05 |
| ECAO TCOLU0241082050710 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLU0241412050710 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TCOLU0442192020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TCOLU1041292050210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0641052020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTOLBU0441142020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TOLBU1141252020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLSU0542281010110 01 SCR2 | 211. | 1316. | 71.2 | 9.89 | 2.53 | 16.35 | 12.42 | 10.08 | 27.00 | 7.82 | 24.17 | 18.37 |
| MECS TSABU0441391020110 01 SCR2 | 790. | 5883. | 85.0 | 9.29 | 2.39 | 68.72 | 11.68 | 6.36 | 22.70 | 22.96 | 91.68 | 15.58 |
| ECAO TSABU0441201020110 01 SCR2 | 480. | 3574. | 85.0 | 9.77 | 2.57 | 44.10 | 12.34 | 11.16 | 32.60 | 21.00 | 65.11 | 18.22 |
| ECAOOHTSABU0441051010110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSABU2341292020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSABU0441182020110 01 SCR1 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0541252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0542252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     SCR1         924.    6880.     85.0     9.03
 2.44    78.92    11.47     7.68    24.10    29.36   108.29    15.74
MAPP  TSABU1141282010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     SCR2         670.    4989.     85.0    11.89
 2.40    71.30    14.29     6.72    22.80    19.78    91.08    18.26
SOU ALTSABU0641232020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SCR2         650.    1377.     24.2    13.13
 2.41    21.41    15.54     6.84    22.80    19.27    40.67    29.53
ERCTTXTSASU1941292020310 01     SCR1        1210.    4814.     45.4    12.85
 2.41    73.44    15.26     6.96    25.00    38.67   112.11    23.29
ERCTTXTSASU2341292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     8.04    24.80     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     SCR1        1319.    9824.     85.0    13.06
 2.40   151.88    15.46     6.60    22.80    38.79   190.66    19.41
ENTG  TSASU1042292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.536
Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|
| SPPSTXTSASU3541292020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 7.44 | 26.80 | 0.00 | 0.00 |
| ECAO TSBBU0241042020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0641062020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSBBU0441182020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441041020110 01 SCR2 | 134. | 926. | 78.9 | 11.39 | 2.60 | 12.95 | 13.99 | 11.76 | 32.70 | 5.96 |
| ECAOOHTSBBU0441042020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSBBU0441181010110 01 SCR2 | 298. | 2060. | 78.9 | 11.00 | 2.44 | 27.68 | 13.44 | 7.68 | 28.90 | 10.90 |
| MAPPNETSBBU1441282010310 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBBU1442282010310 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 SCR2 | 512. | 3813. | 85.0 | 13.25 | 2.43 | 59.78 | 15.68 | 7.44 | 26.80 | 17.53 |

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SOU MSTSBBU1641242020110 01     SCR1          262.    1951.     85.0    13.31
 2.50    30.84    15.81     9.36    26.90     9.50    40.34    20.68
AZNM  TSBBU0841361020310 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020110 02     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPSDTSBLU0742261010110 02     SCR2            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBU0441041020210 01     SCR2          600.    4147.     78.9    11.24
 2.41    56.61    13.65     6.96    22.80    17.86    74.47    17.96
MACW  TSCBU0241032020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SCR1          306.    2279.     85.0    13.92
 2.58    37.61    16.50    11.28    27.00    11.71    49.32    21.65
TVA   TSCBU0641212020210 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     SCR1         1711.   12739.     85.0    11.73
 2.46   180.78    14.19     8.16    29.90    65.11   245.89    19.30
RMPA  TSCBU0841342020310 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     SCR1          391.    2702.     78.9     9.46
 2.41    32.08    11.87     6.96    22.80    11.64    43.71    16.18
WUMSWITSCSU1341161010110 01     SCR2          342.    2547.     85.0     8.42
 2.47    27.73    10.89     8.52    26.90    12.11    39.85    15.65
WUMSWITSCSU1341162020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSCSU1341162020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141251020210 01 SCR2 | 714. | 4935. | 78.9 | 11.11 | 2.40 | 66.69 | 13.51 | 6.60 | 22.80 | 20.99 | 87.68 | 17.77 |
| MAPP TSCSU1141252020110 01 SCR1 | 637. | 4402. | 78.9 | 11.17 | 2.41 | 59.80 | 13.58 | 6.84 | 22.80 | 18.88 | 78.69 | 17.87 |
| MAPP TSCSU1141252020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1142252020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSCSU1342162020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSDBU0441392020110 01 SCR1 | 609. | 4535. | 85.0 | 9.38 | 2.49 | 53.81 | 11.87 | 8.88 | 32.50 | 25.20 | 79.01 | 17.42 |
| ECAO TSDBU0641062020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOVATSDBU0341061020110 01 SCR2 | 925. | 6888. | 85.0 | 10.54 | 2.52 | 89.97 | 13.06 | 9.72 | 32.50 | 39.05 | 129.03 | 18.73 |
| ECAOWVTSDBU0641051010110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 10.32 | 32.60 | 0.00 | 0.00 | 0.00 |
| MACSMDTSDBU0241081020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 7.68 | 28.90 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 SCR1 | 833. | 6203. | 85.0 | 12.43 | 2.45 | 92.30 | 14.88 | 7.92 | 29.30 | 31.00 | 123.30 | 19.88 |
| FRCCFLTSDBU1541132020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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VACANCTSDBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1         564.    4200.     85.0    12.46
 2.59    63.22    15.05    11.64    32.60    24.95    88.17    20.99
TVA   TSDBU0642222020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     8.88    29.80     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SCR2         431.    2979.     78.9    11.15
 2.45    40.50    13.60     7.80    26.80    14.91    55.41    18.60
ECAO  TSESU0441172020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     SCR1         303.    2224.     83.8    10.57
 2.49    29.04    13.06     8.88    32.50    12.54    41.57    18.69
MANO  TSESU0441172020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     SCR2         567.    3919.     78.9    10.30
 2.42    49.83    12.72     7.08    26.80    19.21    69.04    17.62
SOU   TSESU0641111020210 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     6.24    22.70     0.00     0.00     0.00
SOU   TSESU0641112020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     SCR2         500.    3723.     85.0     8.88
 2.43    42.12    11.31     7.44    32.40    19.92    62.04    16.66
ECAOKYTSFBU0641201020210 01     SCR2         983.    7320.     85.0    10.60
 2.43    95.35    13.03     7.44    22.80    29.73   125.07    17.09
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.538
Total Annual Costs
Year: 2015

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capacity Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh
MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
ECAOKYTSFBU0641202020210 01 SCR1 509. 3790. 85.0 10.48
2.43 48.94 12.91 7.44 26.80 17.43 66.37 17.51
ECAOWVTSFBU0641041020110 01 SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 6.36 26.70 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 SCR1 552. 4110. 85.0 10.61
2.42 53.54 13.03 7.20 32.40 21.86 75.40 18.34
MANOMOTSFBU0542251010110 01 SCR2 952. 6580. 78.9 10.79
2.44 87.06 13.23 7.56 29.60 35.38 122.44 18.61
SOU TSFBU0641112020110 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 SCR2 165. 1029. 71.2 14.47
2.57 17.54 17.04 11.04 32.60 7.20 24.74 24.04
VACANCTSGBU0641101020210 01 SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 SCR2 165. 1029. 71.2 14.79
2.57 17.87 17.36 11.04 32.60 7.20 25.07 24.36
VACANCTSGBU0642102020110 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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ECAO  TSHBU0441042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     SCR2         680.    4700.     78.9    11.21
 2.56    64.71    13.77    10.92    32.60    29.59    94.31    20.07
ECAO  TSHBU0641042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     SCR1        1003.    6932.     78.9    11.44
 2.54    96.94    13.98    10.32    28.00    38.44   135.38    19.53
ECAO  TSHBU0642181020110 01     SCR2         105.     726.     78.9    12.34
 2.64    10.87    14.98    12.84    32.70     4.78    15.65    21.57
ECAO  TSHBU0642182020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     6.24    29.50     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSISU0441171010110 01     SCR2         469.    3241.     78.9    11.19
 2.44    44.19    13.63     7.68    26.80    16.17    60.36    18.62
MAPP  TSISU1142262020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSISU1341392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISU0541271010110 01     SCR2         450.    3351.     85.0    10.74
 2.52    44.42    13.26     9.84    29.10    17.52    61.95    18.49
ECAO  TSJBU0441051020110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     7.08    26.80     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SCR2         390.    2904.     85.0     8.57
 2.46    32.02    11.03     8.16    26.80    13.63    45.65    15.72
ECAO  TSKBU0441042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     SCR2         222.    1534.     78.9    10.89
 2.53    20.59    13.42     9.96    32.50     9.43    30.01    19.56
MECSMITSLBU0441152020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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 3.96    41.88    15.80    10.68    43.60    19.32    61.21    23.09
MAPP  TSISS1141262020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISS0541272020103 01     SCR1         670.    4989.     85.0    10.70
 3.80    72.32    14.50     6.72    41.00    31.97   104.29    20.90
SPPNMOTSUBS0541272020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841361020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0841332020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0842332020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0842332020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBS0641201020103 01     SCR2         633.    4714.     85.0     7.18
 3.88    52.14    11.06     8.76    43.20    32.89    85.03    18.04
ECAO  TSVBS0641202020103 01     SCR1         401.    2986.     85.0     6.62
 3.94    31.53    10.56    10.32    43.30    21.50    53.03    17.76
ECAOINTSVBS0441181010103 01     SCR2         480.    3574.     85.0     7.28
 3.92    40.03    11.20     9.60    43.30    25.39    65.43    18.30
ECAOINTSVBS0441182020103 01     SCR1        1664.   12391.     85.0     7.86
 3.85   145.04    11.71     7.92    42.50    83.90   228.94    18.48
ECAO  TSXBS0241042020103 01     SCR1        1080.    8042.     85.0     8.48
 3.82    98.93    12.30     7.20    41.60    52.70   151.64    18.86
ECAO  TSXBS0241042020703 01     SCR1        1566.   11661.     85.0     8.95
 3.79   148.54    12.74     6.36    43.10    77.45   226.00    19.38
ECAO  TSXBS0242412020703 01     SCR1         134.     998.     85.0    10.26
 4.00    14.23    14.26    11.76    43.70     7.43    21.66    21.71
ECAO  TSXBS0441142020103 01     SCR1         750.    5585.     85.0    10.93
 3.86    82.58    14.79     8.28    42.20    37.86   120.44    21.57
ECAO  TSXBS0641201020103 01     SCR2         469.    3492.     85.0     7.39
 3.92    39.49    11.31     9.72    43.30    24.87    64.35    18.43
ECAO  TSXBS0641042020103 01     SCR1        1228.    9144.     85.0     9.03
 3.81   117.43    12.84     6.96    41.00    58.89   176.33    19.28
ECAO  TSXBS0641202020103 01     SCR1         993.    7394.     85.0     7.25
 3.91    82.50    11.16     9.48    42.30    51.42   133.92    18.11
ECAO  TSXBS0642201020103 01     SCR2         155.    1154.     85.0     7.82
 3.98    13.62    11.80    11.28    43.60     8.51    22.13    19.17
MANO  TSXBS0441191020103 01     SCR2         366.    2725.     85.0     8.92
 3.86    34.83    12.78     8.28    43.20    18.84    53.67    19.69
MANO  TSXBS0441192020103 01     SCR1         190.    1415.     85.0     7.57
 3.95    16.30    11.52    10.44    41.20     9.81    26.12    18.46
MAPP  TSXBS1142272020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSXBS0141022020103 01     SCR1         149.    1110.     85.0    10.92
 3.98    16.53    14.90    11.40    43.60     8.20    24.73    22.29
VACA  TSXBS0641101020103 01     SCR2         270.    2011.     85.0    12.35
 3.90    32.68    16.25     9.24    41.10    13.59    46.27    23.01
VACA  TSXBS0641102020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSXBS0641222020203 01     SCR1         472.    3515.     85.0     8.68
 3.92    44.30    12.60     9.72    41.10    23.99    68.29    19.43
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.540
Total Annual Costs
Year: 2015

| Unit | Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOU | TSXBS0642112020103 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | MSTSXBS1641291020203 01 SCR2 | 200. | 1489. | 85.0 | 11.27 | 3.94 | 22.65 | 15.21 | 10.32 | 41.20 | 10.30 | 32.96 | 22.13 |
| SOU | MSTSXBS1641292020203 01 SCR1 | 200. | 1489. | 85.0 | 11.27 | 3.94 | 22.65 | 15.21 | 10.32 | 41.20 | 10.30 | 32.96 | 22.13 |
| AZNM | TSXBS0841362020303 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSXBS0841362020703 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSXBS0842362020703 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSXBS0841332020103 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSXBS0841402020103 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSXBS0841332020303 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSXBS0841362020304 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTT | XTSXLS2341302020103 02 SCR1 | 1440. | 10723. | 85.0 | 12.26 | 3.80 | 172.20 | 16.06 | 6.60 | 41.00 | 68.54 | 240.74 | 22.45 |
| ERCTT | XTSXLS2342302020103 02 SCR1 | 189. | 1406. | 85.0 | 13.30 | 3.81 | 24.06 | 17.11 | 6.96 | 41.40 | 9.13 | 33.19 | 23.61 |
| ERCTT | XTSXLS2342302030303 02 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPN | DTSXLS0741311020103 02 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPN | DTSXLS0742311010103 02 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPN | DTSXLS0742312010304 02 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPN | DTSXLS0742312020304 02 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSL | ATSXLS1041302020103 02 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPST | XTSXLS2341302020103 02 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTT | XTSXSS1941292020303 01 SCR1 | 555. | 2208. | 45.4 | 12.86 | 3.82 | 36.83 | 16.68 | 7.20 | 41.00 | 26.75 | 63.58 | 28.80 |
| ERCTT | XTSXSS2341292020103 01 SCR1 | 435. | 3239. | 85.0 | 12.59 | 3.85 | 53.27 | 16.44 | 7.80 | 36.00 | 19.05 | 72.32 | 22.33 |
| ERCTT | XTSXSS2341292020303 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTT | XTSXSS3541292020103 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | TSXSS3642282020104 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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AZNM  TSXSS0841351020303 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0841352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0841352020303 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842351020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842351020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842352020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0741322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0742322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0441192020103 01     SCR1        1722.   12823.     85.0     7.02
 3.85   139.34    10.87     7.80    41.00    84.03   223.38    17.42
ECAOOHTSYBS0441042020103 01     SCR1        1300.    9680.     85.0     8.14
 3.78   115.37    11.92     6.24    23.40    38.53   153.90    15.90
MACW  TSYBS0241412020103 01     SCR1        1700.   12659.     85.0     8.30
 3.78   152.88    12.08     6.24    43.00    83.71   236.59    18.69
MANO  TSYBS0441191010103 01     SCR2         170.    1266.     85.0     9.35
 3.96    16.85    13.31    10.92    41.20     8.86    25.71    20.31
SPPN  TSYBS1741281010703 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741282020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1141262020304 01     SCR1         871.    6486.     85.0    10.25
 3.78    91.01    14.03     6.24    35.90    36.70   127.72    19.69
MAPP  TSYSS1142262020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1142262020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1741282020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1742282020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     SCR1         581.    4326.     85.0    12.25
 3.89    69.83    16.14     9.00    43.40    30.44   100.28    23.18
FRCCFLTSZBS1541121020103 01     SCR2         957.    7126.     85.0    11.12
 3.84   106.62    14.96     7.56    41.00    46.47   153.09    21.48
FRCCFLTSZBS1541122020103 01     SCR1        2315.   17238.     85.0    11.21
 3.82   259.15    15.03     7.08    41.00   111.31   370.45    21.49
MAPPWYTSZLS0841322020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPAWYTSZLS0841322020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0841322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0842322020104 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCGCOS3141012050703 01     SCR1         195.    1426.     83.5    12.58
 3.94    23.57    16.52    10.32    23.70     6.63    30.20    21.17
RMPA  TSASS0841342020303 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     SCR2         132.     983.     85.0     9.23
 4.00    13.00    13.23    11.88    43.70     7.34    20.34    20.69
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Total Annual Costs
Year: 2015

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capital Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
SPPNMOTSBSS0542282020103 01 SCR1 308. 2129. 78.9 9.81 3.98 29.36 13.79 11.28 43.60 16.90 46.27 21.73
PNW WATSBSS0741372020103 01 SCR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSDSS0541282020103 01 SCR1 670. 4989. 85.0 8.51 3.80 61.44 12.31 6.72 41.00 31.97 93.41 18.72
SPPN TSESS1741282020103 01 SCR2 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret.ExistScrub & SCR 41 27059. 199374. 84.1 9.56 3.85 2673.03 13.41 7.81 40.61 1310.03 3983.06 19.98

MECS TCOLU0431152020110 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TCOLU0431392020110 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0231082020110 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431041020110 01 HNO1 123. 688. 63.9 12.52 2.46 10.31 14.98 4.32 32.60 4.54 14.85 21.58
ECAO TCOLU0431141020110 01 HNO1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431142020110 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431182020110 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431192020110 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431042050710 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0631051020110 01 HNO1 46. 220. 54.6 9.99 2.46 2.74 12.45 3.96 32.50 1.68 4.42 20.07
ECAO TCOLU0631202020110 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATCOLU0331062020110 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0231031020310 01 HNO1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0231032020110 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0231412050710 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TCOLU0411392020710 01 SNR1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITCOLU1331392020110 01 SNR1 0. 0. N/A 0.00
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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131272020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131252020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020310 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0131022020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
FRCCFLTCOLU1531132020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACA  TCOLU0631041050710 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACA  TCOLU0631102050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACANCTCOLU0631102020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACANCTCOLU0631102020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACAVATCOLU0331092050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TCOLU1731281020310 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TCOLU1731282020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPSTXTCOLU3531292050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
CALI  TCOLU0832372050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
RMPA  TCOLU0831331020310 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NWPE  TCOLU0831332050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0631191040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632051020110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632052020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632192020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0641052020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOMDTOLBU0231082020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTOLBU0432142020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTOLBU0432142020710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TOLBU0231032020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Total Annual Costs

Year: 2015

| | | |

NWPE TSABU0832332020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPPNETSBSU1442282020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0431181020110 01 HNO1 | 255. | 1427. | 63.9 | 11.60 | 2.46 | 20.06 | 14.06 | 2.64 | 32.30 | 8.91 | 28.97 | 20.30 |
| ECAOINTSCBU0432181020110 01 HNO1 | 95. | 532. | 63.9 | 11.97 | 2.46 | 7.67 | 14.43 | 2.40 | 32.30 | 3.30 | 10.96 | 20.63 |
| MACE TSCBU0131032020310 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEDETSCBU0231032020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1131272010110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1131252020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCBU1132252020210 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0131022020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0631102020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0641102020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSCBU1731282010310 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSCBU1732281010110 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSCBU1732282020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSCBU0832342020310 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSCBU0841342020310 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOWVTSDBU0641051010110 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TVA TSDBU0642222020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1331392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1332392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.544
Total Annual Costs
Year: 2015

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VACA TSHBU0641102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0632102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0432152020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0231052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0232052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0432141020210 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0632182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSLBU0531281020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.545

Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MANO TSYBU0432191010210 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSZBU0431192020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSZBU0432192010210 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CGCOU0431392050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CGCOU0231412050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CGCOU0141012050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0231412050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0232412050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0241412050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY CGCOU0131022050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG CGCOU0931012050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CGCOU0631102050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCGCOU0631102050310 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCGCOU0631102050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0331092050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CGCOU0831372050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CGCOU0832372050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CGCOU0731322050710 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CGSDU1131251020210 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.SNCR 42 | 799. | 4207. | 60.1 | 11.74 | 2.43 | 59.62 | 14.17 | 3.32 | 30.47 | 27.00 | 86.61 | 20.59 |
| ECAO TCOLS0231411020703 01 HNO1 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1          84.     625.     85.0     9.61
 3.86     8.43    13.47     2.64    23.40     2.19    10.61    16.97
MACW  TCOLS0231412050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1          80.     389.     55.5    11.47
 3.86     5.96    15.33     2.76    43.30     3.68     9.65    24.80
VACANCTCOLS0641102050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBS0432142020304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBS0432191010103 01     HNC1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBS0432192010203 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TRRBS0832342030304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020304 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBS0431141010103 01     HNC1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSGBS1231392020104 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1531132020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1532132020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISS1132262020703 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBS0541272020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020703 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBS0431182020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBS0432181020103 01     HNO1          90.     670.     85.0     8.90
 3.86     8.55    12.76     2.52    43.30     4.12    12.67    18.91
MECS  TSXBS0432392020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSXBS0432392020203 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBS0242412020703 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.546
Total Annual Costs
Year: 2015

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ECAOOHTSBBS0441041020304 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistScrub & SNCR         43             254.    1685.     75.7     9.76
 3.86    22.94    13.62     2.64    36.72    10.00    32.93    19.55

ECAO  TCOLU0241082050710 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     RL01         213.    1589.     85.0     9.59
 3.67    21.07    13.26    56.76    28.05    18.10    39.17    24.65
MANO  TCOLU0442192020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     RO01         238.    1771.     85.0     9.61
 3.90    23.94    13.51    45.60    44.89    21.53    45.47    25.67
MAPP  TOLBU1141252020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSABU0441051010110 01     SO01         401.    2989.     85.0     7.83
 3.90    35.05    11.73    49.68    45.89    38.36    73.41    24.56
ECAOOHTSABU0441051020110 01     SO01         372.    2770.     85.0     7.86
 3.91    32.60    11.77    51.84    46.29    36.51    69.10    24.95
ERCTTXTSABU2341292020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACWPATSABU0241032020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSABU0441182020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSABU0441182020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0541252020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0542252020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1142282020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTTSABU3241012020110 01 RL02 | 174. | 1298. | 85.0 | 16.56 | 3.43 | 25.94 | 19.99 | 34.32 | 37.07 | 12.44 | 38.38 | 29.57 |
| VACANCTSABU0641102020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABU0641102020210 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSABU0641112020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSABU0641112020110 01 RL02 | 1685. | 12546. | 85.0 | 12.30 | 3.44 | 197.45 | 15.74 | 35.52 | 39.92 | 127.10 | 324.56 | 25.87 |
| SOU ALTSABU0641231020210 01 SD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641232020210 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 RO01 | 534. | 3973. | 85.0 | 10.83 | 3.83 | 58.26 | 14.66 | 30.36 | 31.38 | 32.94 | 91.20 | 22.95 |
| SOU MSTSABU1641242020210 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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RMPA  TSABU0841341020310 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     RD01         798.    5941.     85.0    11.78
 4.55    97.00    16.33    24.00    27.58    41.16   138.15    23.25
ENTG  TSASU1042292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02         982.    7312.     85.0    11.01
 3.43   105.60    14.44    31.08    31.98    61.92   167.52    22.91
SPPS  TSASU3641282020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.548
Total Annual Costs
Year: 2015

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TVA   TSBBU0641212020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020110 02     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02     RD01         311.    2316.     85.0    13.46
 4.61    41.84    18.07    26.76    32.77    18.51    60.35    26.06
MAPPSDTSBLU0742261010110 02     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.549
Total Annual Costs
Year: 2015

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WUMSWITSCSU1341161010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020510 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020510 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     RL01         978.    7283.     85.0     9.45
 3.53    94.55    12.98    35.28    39.70    73.34   167.88    23.05
MANO  TSCSU0441202020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     RO01         685.    5103.     85.0     8.46
 3.98    63.50    12.44    39.00    37.47    52.40   115.90    22.71
MANO  TSCSU0442182010110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1141251020210 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1141252020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1141252020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1142252020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSCSU1342162020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     RL01         255.    1895.     85.0     9.41
 3.47    24.42    12.88    33.60    43.39    19.60    44.01    23.22
ECAOVATSDBU0341061020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     SL01         611.    4553.     85.0     8.25
 3.50    53.51    11.75    39.72    44.79    51.67   105.18    23.10
MACSMDTSDBU0241081020110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.550
Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSDBU1241162020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 RL02 | 539. | 4014. | 85.0 | 7.77 | 3.41 | 44.87 | 11.18 | 36.72 | 43.99 | 43.51 | 88.38 | 22.02 |
| MANOILTSDBU0441191020110 01 SL02 | 353. | 2632. | 85.0 | 8.77 | 3.44 | 32.13 | 12.21 | 34.92 | 37.37 | 25.55 | 57.68 | 21.92 |
| MANOILTSDBU0441192020110 01 RL01 | 257. | 1910. | 85.0 | 9.07 | 3.50 | 24.00 | 12.57 | 34.20 | 37.77 | 18.46 | 42.46 | 22.23 |
| MANOMOTSDBU0541252020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SO01 | 1365. | 10162. | 85.0 | 9.45 | 3.75 | 134.12 | 13.20 | 26.64 | 30.58 | 78.09 | 212.21 | 20.88 |
| FRCCFLTSDBU1541132020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 RL02 | 2046. | 15236. | 85.0 | 11.58 | 3.36 | 227.57 | 14.94 | 29.28 | 37.91 | 137.48 | 365.06 | 23.96 |
| TVA TSDBU0641222020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ECAOOHTSEBU0441142020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     RL01         140.    1041.     85.0    10.47
 3.57    14.62    14.04    43.68    45.89    12.52    27.14    26.07
ECAOOHTSEBU0442142020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     RL01         132.     984.     85.0    11.41
 3.61    14.78    15.02    47.76    47.09    12.54    27.31    27.75
MANO  TSEBU0442181010110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     SO01         542.    4039.     85.0     8.26
 3.90    49.12    12.16    30.84    41.29    39.12    88.24    21.85
MAPP  TSEBU1141252020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     RL02         364.    2712.     85.0    12.37
 3.44    42.87    15.81    37.92    41.03    28.75    71.62    26.41
VACASCTSEBU0641102020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     SO01          84.     624.     85.0    12.59
 3.76    10.20    16.35    24.96    30.08     4.61    14.82    23.75
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MECSMITSGBU0441392020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441142020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441142020110 01     RL02         925.    6889.     85.0    10.18
 3.41    93.65    13.59    31.56    37.29    63.70   157.35    22.84
MACS  TSGBU0241082020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     RL01         535.    3980.     85.0    10.69
 3.51    56.51    14.20    41.04    45.19    46.09   102.60    25.78
MAPP  TSGBU1141272020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSGBU0141022020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSGBU0141022020210 01     RL01         403.    3003.     85.0    12.26
 3.58    47.58    15.84    39.60    44.69    34.00    81.58    27.16
VACANCTSGBU0641101020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     SL01         259.    1932.     85.0    12.63
 3.50    31.16    16.13    33.96    43.39    20.07    51.23    26.52
VACANCTSGBU0641102020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     SL01         191.    1422.     85.0     8.45
 3.51    17.00    11.96    39.84    44.89    16.17    33.18    23.34
ECAO  TSHBU0441041020110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     SO01         573.    4265.     85.0     8.11
 3.76    50.60    11.87    28.80    35.17    36.63    87.24    20.46
ECAO  TSHBU0441042020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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MECS  TSIBU0442392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSISU0441171010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSISU0441171010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSISU1341392020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISU0541271010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISU0541271010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441051020110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441051020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     RL02         638.    4753.     85.0     8.83
 3.46    58.42    12.29    36.72    39.91    48.91   107.34    22.58
MANO  TSKBU0441181010110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     RO01         583.    4338.     85.0     7.16
 3.75    47.31    10.91    28.56    35.17    37.12    84.43    19.47
VACANCTSKBU0641102020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     RL01         134.     999.     85.0     9.11
 3.64    12.73    12.75    47.76    47.09    12.72    25.45    25.49
WUMSWITSLBU1341392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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MACW TCOLU0241412050710 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLU0241412050710 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLU0442192020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLU0442192020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0441142020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0441142020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 SCR2ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 ML01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 SCR2LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 LO01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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MANOMOTSABU0542252020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     ML02SCR1     729.    5431.     85.0    12.20
 3.43    84.89    15.63    34.56    33.08    49.33   134.23    24.71
TVA   TSABU0641202020310 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     SCR2LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641232020210 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641232020210 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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ERCTTXTSASU1941292020310 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     SCR1ML02     793.    5905.     85.0    11.17
 3.47    86.47    14.64    34.61    34.83    55.07   141.54    23.97
ERCTTXTSASU2341292020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     ML02SCR1    1034.    7698.     85.0    11.21
 3.45   112.85    14.66    30.48    33.92    66.58   179.43    23.31
SPPSTXTSASU2342292020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPSTXTSASU2342292020210 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2342292020210 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2342292020210 01 ML02SCR1 | 517. | 3849. | 85.0 | 11.68 | 3.48 | 58.34 | 15.16 | 30.96 | 31.98 | 32.53 | 90.87 | 23.61 |
| SPPSTXTSASU3541292020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 SCR2ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 ML01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MECS  TSBBU0441392020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     SCR2ML02     979.    7290.     85.0     8.40
 3.37    85.81    11.77    30.28    35.97    64.86   150.67    20.67
ECAO  TSBBU0241041020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01SCR1     370.    2756.     85.0     9.12
 3.61    35.08    12.73    49.92    41.87    33.97    69.05    25.06
ECAOOHTSBBU0441041020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSBBU0441181010110 01     SCR2ML02       2.      18.     85.0     9.42
 3.43     0.23    12.85    32.80    38.62     0.17     0.40    22.44
MANOILTSBBU0441181010110 01     ML02SCR2     587.    4370.     85.0     9.42
 3.43    56.13    12.85    32.76    38.61    41.88    98.02    22.43
MAPPNETSBBU1441282010310 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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SOU MSTSBBU1641242020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MANO | TSBSU0441172020110 | | | | | | | | | | | | | ML02SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MANO | TSBSU0441172020210 | | | | | | | | | | | | | SCR1LO01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MANO | TSBSU0441172020210 | | | | | | | | | | | | | SCR1ML02 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MANO | TSBSU0441172020210 | | | | | | | | | | | | | LO01SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MANO | TSBSU0441172020210 | | | | | | | | | | | | | ML02SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1441282020110 | | | | | | | | | | | | | | SCR1LD01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1441282020110 | | | | | | | | | | | | | | LD01SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1441282020210 | | | | | | | | | | | | | | SCR1LD01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1441282020210 | | | | | | | | | | | | | | LD01SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1442282020110 | | | | | | | | | | | | | | SCR1ML01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1442282020110 | | | | | | | | | | | | | | ML01SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1442282020510 | | | | | | | | | | | | | | LD01SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1442282020510 | | | | | | | | | | | | | | SCR1LD01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| SPPNMOTSBSU0542282020110 | | | | | | | | | | | | | | SCR1LO01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| SPPNMOTSBSU0542282020110 | | | | | | | | | | | | | | SCR1ML01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| SPPNMOTSBSU0542282020110 | | | | | | | | | | | | | | LO01SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| SPPNMOTSBSU0542282020110 | | | | | | | | | | | | | | ML01SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOINTSCBU0441182020110 | | | | | | | | | | | | | | SCR1LO01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOINTSCBU0441182020110 | | | | | | | | | | | | | | SCR1ML02 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOINTSCBU0441182020110 | | | | | | | | | | | | | | LO01SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOINTSCBU0441182020110 | | | | | | | | | | | | | | ML02SCR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOOHTSCBU0441041020210 | | | | | | | | | | | | | | SCR2LD01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOOHTSCBU0441041020210 | | | | | | | | | | | | | | LD01SCR2 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MACW | TSCBU0241032020110 | | | | | | | | | | | | | SCR1LO01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |

```
MACW  TSCBU0241032020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     SCR1LD01      86.     638.     85.0     9.66
 4.58     9.08    14.24    26.43    28.49     4.70    13.79    21.61
```

Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSCSU1242162020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1242162020110 01 LD01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 SCR2ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 ML02SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MANO TSCSU0441182010110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 LD01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.560
Total Annual Costs
Year: 2015

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FRCCFLTSDBU1541131020110 01     SCR2LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| | | | | | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MECS | TSEBU0441392020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSEBU0441392020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSEBU0441392020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSEBU0441392020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 | | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 | | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 | | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 | | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 | | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 | | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 | | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 | | 01 | ML01SCR1 | 153. | 1137. | 85.0 | 11.30 | 3.64 | 16.99 | 14.94 | 45.36 | 46.29 | 14.00 | 30.99 | 27.25 | | | | | | | | |
| MACWPATSEBU0241032020110 | | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0241032020110 | | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS | TSEBU0241072020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS | TSEBU0241072020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS | TSEBU0241072020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS | TSEBU0241072020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSEBU0442181010110 | 01 | SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSEBU0442181010110 | 01 | SCR2LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSEBU0442181010110 | 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSEBU0442181010110 | 01 | LD01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSEBU1141252020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSEBU1141252020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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NENG  TSEBU2841012020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     SCR1ML02     804.    5985.     85.0    12.37
 3.44    94.62    15.81    38.11    41.04    63.62   158.24    26.44
NENG  TSEBU2841012020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| | | | | | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MANO | TSESU0441172010110 | 01 | ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSESU0441172020310 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSESU0441172020310 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSESU0441172020310 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSESU0441172020310 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSESU1141261010110 | 01 | SCR2LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSESU1141261010110 | 01 | LD01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641111020210 | 01 | SCR2LO01 | 732. | 5449. | 85.0 | 12.59 | 3.76 | 89.11 | 16.35 | 25.09 | 30.09 | 40.38 | 129.49 | 23.76 | | | | | | | | |
| SOU | TSESU0641111020210 | 01 | SCR2LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641111020210 | 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641111020210 | 01 | LD01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020110 | 01 | SCR1LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020110 | 01 | LD01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020210 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020210 | 01 | SCR1LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020210 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | TSESU0641112020210 | 01 | LD01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSESU1741282020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSESU1741282020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSESU1741282020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSESU1741282020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSFBU0441142020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ECAO  TSFBU0441142020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641202020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641202020210 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBU0641041020110 01     SCR2LD01    1566.   11664.     85.0     8.75
 4.28   151.93    13.03    23.18    31.57    85.76   237.69    20.38
ECAOWVTSFBU0641041020110 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBU0641042020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBU0641042020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | Total | | | Capital | | FOM | | | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | |
| | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | MMUS$ | MMUS$ | | mill/kWh | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | | SCR1LO02 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | | SCR1LD02 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | | LO02SCR1 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | | LD02SCR1 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MECSMI | TSGBU0441392020110 | 01 | | | | | | | | SCR1ML01 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MECSMI | TSGBU0441392020110 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | | SCR2LO01 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | | SCR2ML01 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | | LO01SCR2 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | | ML01SCR2 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | | SCR1LO01 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | | SCR1ML02 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | | LO01SCR1 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | | ML02SCR1 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | | SCR1LO01 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | | SCR1ML01 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | | LO01SCR1 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MAPP | TSGBU1141272020210 | 01 | | | | | | | | SCR1ML01 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MAPP | TSGBU1141272020210 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | | SCR1LO01 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | | SCR1ML01 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | | LO01SCR1 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | | ML01SCR1 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |

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VACANCTSGBU0641101020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     ML02SCR1     269.    2005.     85.0    12.31
 3.49    31.67    15.80    35.64    44.29    21.52    53.19    26.53
VACANCTSGBU0641102020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.564
Total Annual Costs
Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| VOM | | | | | | | | | | | Total | | Capital | | FOM | Total | | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | mil | |
| l/kWh | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | | | | | | | | | | | | |
| TVA | TSGBU0642222020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSGSU0441201020210 | 01 | SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSGSU0441201020210 | 01 | SCR2ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSGSU0441201020210 | 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSGSU0441201020210 | 01 | ML01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441041020110 | 01 | SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441041020110 | 01 | SCR2LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441041020110 | 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441041020110 | 01 | LD01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441042020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441042020110 | 01 | SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441042020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441042020110 | 01 | ML02SCR1 | 2252. | 16767. | 85.0 | 8.55 | 3.39 | 200.21 | 11.94 | 31.68 | 37.70 | 156.22 | 356.43 | 21.26 | | | | | | | | |
| ECAO | TSHBU0441182020110 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441182020110 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441182020110 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441182020110 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441042020310 | 01 | SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441042020310 | 01 | SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441042020310 | 01 | LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0441042020310 | 01 | ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0641041020110 | 01 | SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0641041020110 | 01 | SCR2ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ECAO | TSHBU0641041020110 | 01 | LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |

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ECAO  TSHBU0641041020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     SCR1LO01    1664.   12393.     85.0     9.61
 3.74   165.49    13.35    24.85    36.93   102.83   268.32    21.65
MACW  TSHBU0241412020110 01     SCR1LD02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LD02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     LO01SCR1     421.    3135.     85.0     6.82
 3.88    33.53    10.70    48.24    45.59    39.50    73.03    23.30
VACA  TSHBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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ECAO  TSJBU0441202020410 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SCR2LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     LO01SCR2    1132.    8427.     85.0     7.84
 3.85    98.52    11.69    29.76    35.37    73.71   172.23    20.44
MANO  TSKBU0441181010110 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.566
Total Annual Costs
Year: 2015

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MANO  TSXBU0441192020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     ML01SCR1     183.    1339.     83.5    11.10
 3.43    19.45    14.53    39.36    24.15    11.63    31.08    23.21
MACW  CGCOU0241412050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     ML01SCR1     195.    1425.     83.5    11.99
 3.56    22.16    15.55    40.20    24.15    12.54    34.70    24.35
SPPS  CGCOU3641282050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
Ret.SCR+Scrb                   44           50852.  378610.     85.0    10.07
 3.63  5188.04    13.70    32.11    35.90  3458.60  8646.63    22.84

MACW  TCOLU0241412050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MANO | TCOLU0442192020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TOLBU0641052020110 | | | | | | | 01 | | | NO01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TOLBU0641052020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MAPP | TOLBU1141252020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| VACAVA | TOLBU0332092020110 | | | | | | | 01 | | | NO01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| VACAVA | TOLBU0332092020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPN | TOLBU1742282020110 | | | | | | | 01 | | | NO01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPN | TOLBU1742282020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSABU0441201020110 | | | | | | | 01 | | | HO01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSABU0441201020110 | | | | | | | 01 | | | HL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAOOH | TSABU0441051020110 | | | | | | | 01 | | | HO01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACWPA | TSABU0241032020110 | | | | | | | 01 | | | NO01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACWPA | TSABU0241032020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MAPP | TSABU1141282010210 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| DSNYNY | TSABU0141012020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| DSNYNY | TSABU0142012020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| TVA | TSABU0641202020310 | | | | | | | 01 | | | NO01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| TVA | TSABU0641202020310 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| RMPA | TSABU0841341020310 | | | | | | | 01 | | | HL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| NWPE | TSABU0841332020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSASU0441202020110 | | | | | | | 01 | | | NO01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | TSASU0441202020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| NWPE | TSASU0742322020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| NWPE | TSASU0841322020110 | | | | | | | 01 | | | NL01 | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |

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NWPE  TSASU0842322020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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SOU ALTSEBU0642232020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSGBU0441392020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     CO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSGBU1141272020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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WUMSWITSLBU1341392020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.570
Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACAVATOLBU0332092020110 01 LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 HNO1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 HNO1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 LO01HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 ML01HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051020110 01 HNO1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051020110 01 LO01HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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TVA   TSABU0641202020310 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     HNC1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01HNC1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     HNC1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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SPPNMOTSBSU0542282020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HNC1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HNC1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 LO01HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 ML01HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | |

ECAOOHTSEBU0442142020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| SOU | TSFBU0642112020110 | | | | | | | | | | | | | ML01SNR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| SPPN | TSFBU1742282020110 | | | | | | | | | | | | | HNO1LO01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| SPPN | TSFBU1742282020110 | | | | | | | | | | | | | HNO1ML01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| SPPN | TSFBU1742282020110 | | | | | | | | | | | | | LO01HNO1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| SPPN | TSFBU1742282020110 | | | | | | | | | | | | | ML01HNO1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| MECSMIT | SGBU0441392020110 | | | | | | | | | | | | | SNR1ML01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| MECSMIT | SGBU0441392020110 | | | | | | | | | | | | | ML01SNR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| ECAOOHT | SGBU0441141010110 | | | | | | | | | | | | | HNC1LO01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| ECAOOHT | SGBU0441141010110 | | | | | | | | | | | | | HNC1ML01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| ECAOOHT | SGBU0441141010110 | | | | | | | | | | | | | LO01HNC1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| ECAOOHT | SGBU0441141010110 | | | | | | | | | | | | | ML01HNC1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| MACS | TSGBU0241082020110 | | | | | | | | | | | | | SNR1LO01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| MACS | TSGBU0241082020110 | | | | | | | | | | | | | SNR1ML01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| MACS | TSGBU0241082020110 | | | | | | | | | | | | | LO01SNR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| MACS | TSGBU0241082020110 | | | | | | | | | | | | | ML01SNR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| MAPP | TSGBU1141272020210 | | | | | | | | | | | | | SNR1ML01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| MAPP | TSGBU1141272020210 | | | | | | | | | | | | | ML01SNR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| VACANCT | SGBU0641101020110 | | | | | | | | | | | | | HNO1LO01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| VACANCT | SGBU0641101020110 | | | | | | | | | | | | | HNO1ML01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| VACANCT | SGBU0641101020110 | | | | | | | | | | | | | LO01HNO1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| VACANCT | SGBU0641101020110 | | | | | | | | | | | | | ML01HNO1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| VACANCT | SGBU0641102020210 | | | | | | | | | | | | | SNR1LO01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| VACANCT | SGBU0641102020210 | | | | | | | | | | | | | SNR1ML01 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |
| VACANCT | SGBU0641102020210 | | | | | | | | | | | | | LO01SNR1 | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | | | |

VACANCTSGBU0641102020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | Total | | Capital | | FOM | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | US$/kW/a | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| ECAO | TSHBU0642181020110 | | 01 | | | | | | | | HNO1LO01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0642181020110 | | 01 | | | | | | | | HNO1ML01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0642181020110 | | 01 | | | | | | | | LO01HNO1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0642181020110 | | 01 | | | | | | | | ML01HNO1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0642182020210 | | 01 | | | | | | | | SNR1LO01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0642182020210 | | 01 | | | | | | | | SNR1ML01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0642182020210 | | 01 | | | | | | | | LO01SNR1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSHBU0642182020210 | | 01 | | | | | | | | ML01SNR1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSHBU0641102020110 | | 01 | | | | | | | | SNR1LO01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSHBU0641102020110 | | 01 | | | | | | | | SNR1ML01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSHBU0641102020110 | | 01 | | | | | | | | LO01SNR1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSHBU0641102020110 | | 01 | | | | | | | | ML01SNR1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSHBU0641102020210 | | 01 | | | | | | | | SNR1LO01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSHBU0641102020210 | | 01 | | | | | | | | SNR1ML01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSHBU0641102020210 | | 01 | | | | | | | | LO01SNR1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | TSHBU0641102020210 | | 01 | | | | | | | | ML01SNR1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSIBU0441392020110 | | 01 | | | | | | | | SNR1LO01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSIBU0441392020110 | | 01 | | | | | | | | SNR1ML01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSIBU0441392020110 | | 01 | | | | | | | | LO01SNR1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSIBU0441392020110 | | 01 | | | | | | | | ML01SNR1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSIBU0442392020110 | | 01 | | | | | | | | SNR1LO01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSIBU0442392020110 | | 01 | | | | | | | | SNR1ML01 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSIBU0442392020110 | | 01 | | | | | | | | LO01SNR1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSIBU0442392020110 | | 01 | | | | | | | | ML01SNR1 | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

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MAPP  TSISU1142262020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HNO1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     LO01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.575
Total Annual Costs
Year: 2015

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACE CGCOU0141012050710 01 | SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CGCOU0141012050710 01 | LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CGCOU0141012050710 01 | ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0241412050710 01 | SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0241412050710 01 | SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0241412050710 01 | LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CGCOU0241412050710 01 | ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 | SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 | SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 | LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOU0341092050710 01 | ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 | SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 | SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 | LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCOU3641282050710 01 | ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.SNCR+Scrub | 45 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.Gas Reburn | 46 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ExistScrub+GasR | 47 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.GasReburn+Scrub | 48 | 0. | 0. | N/A | 0.00 | | | | | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431152020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431152020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431392020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431392020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0231082020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0241082050710 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431192020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431192020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431042050710 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431042050710 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631051020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631202020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631202020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAOVA | TCOLU0331062020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MACW | TCOLU0231031020310 | 01 | HG06 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MACW | TCOLU0231031020310 | 01 | HG02 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.576
Total Annual Costs
Year: 2015

| Unit Name | | VOM mill/kWh | Total MMUS$ | Capital mill/kWh | Fixed Costs FOM US$/kW/a | Total US$/kW/a | Capacity [MW] MMUS$ | Total Costs Gener. [GWh] MMUS$ | C.F. [%] mill/kWh | Variable Costs Fuel mill/kWh | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACW | TCOLU0231032020110 01 | HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | TCOLU0231032020110 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | TCOLU0231412050710 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | TCOLU0231412050710 01 | HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | TCOLU0241412050710 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | TCOLU0241412050710 01 | HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS | TCOLU0411392020710 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS | TCOLU0411392020710 01 | HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWI | TCOLU1331392020110 01 | HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWI | TCOLU1331392020110 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWI | TCOLU1331392020110 01 | HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TCOLU0431192020110 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TCOLU0442192020110 01 | HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TCOLU0442192020110 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU0731311040110 01 | HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU0731311040110 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU0731311040110 01 | HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131261040110 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131261040110 01 | HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131262020110 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131272020110 01 | HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131272020110 01 | HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131272020110 01 | HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131252020210 01 | HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

```
MAPP  TCOLU1131252020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131252020210 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131262020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131262020310 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TCOLU0131022020110 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TCOLU0131022020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTCOLU1531132020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTCOLU1531132020110 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631041050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631041050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631102050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLU0631102020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLU0631102020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLU0331092050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TCOLU1731281020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TCOLU1731282020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTCOLU3531292050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTCOLU3531292050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  TCOLU0832372050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  TCOLU0832372050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLU0831331020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLU0831331020310 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TCOLU0831332050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TCOLU0831332050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2015

| Unit Name | | |

SPPNMOTOLBU0531281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.578
Total Annual Costs
Year: 2015

| Unit Name | | |

SPPS TSASU3641282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2341292020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2342292020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PNW ORTSASU0842372020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0841342020310 01 HG12 0. 0. N/A 0.00
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NWPE TSASU0742322020110 01 HG11 0. 0. N/A 0.00
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NWPE TSASU0841322020110 01 HG11 0. 0. N/A 0.00
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NWPE TSASU0842322020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 HG01 0. 0. N/A 0.00
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MECS TSBBU0441392020110 01 HG11 0. 0. N/A 0.00
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ECAO TSBBU0241041020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HG01 0. 0. N/A 0.00
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ECAO TSBBU0632062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 HG11 0. 0. N/A 0.00
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ECAOOHTSBBU0441041020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | |

SOU MSTSBBU1641242020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 HG11 0. 0. N/A 0.00
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MAPPNETSBSU1432282020110 01 HG11 0. 0. N/A 0.00
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MAPPNETSBSU1432282020210 01 HG11 0. 0. N/A 0.00
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MAPPNETSBSU1441282020110 01 HG11 0. 0. N/A 0.00
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MAPPNETSBSU1441282020210 01 HG11 0. 0. N/A 0.00
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MAPPNETSBSU1442282020110 01 HG11 0. 0. N/A 0.00
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MAPPNETSBSU1442282020510 01 HG11 0. 0. N/A 0.00
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SPPNMOTSBSU0542282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG11 0. 0. N/A 0.00
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ECAOINTSCBU0432181020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG11 0. 0. N/A 0.00
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ECAOINTSCBU0441182020110 01 HG05 0. 0. N/A 0.00
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ECAOINTSCBU0441182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| Unit Name | | |

SPPN TSCBU1732281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0832342020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSO0441182010102 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MANOILTSDBU0441192020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1331392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1332392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSDSU1132252020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSDSU1132252020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSEBU0442142020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | |

ECAO TSFSU0441202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.583
Total Annual Costs
Year: 2015

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ECAO TSHBU0641042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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ECAOINTSKBU0432182020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0632102020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0432152020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0231052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0232052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0432141020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0432141020210 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSLBU0531281020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSLBU0531281020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSXBU0441192020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBU0432191010210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0431192020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0432192010210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CGCOU0431392050710 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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CALI  CGCOU0832372050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSO1332392020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ACI                        49               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLS0231411020703 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0231411020703 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.586
Total Annual Costs
Year: 2015

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FRCCFLTSGBS1531132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISS0541272020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841352020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

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VACA TSXBS0641101020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841402020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020303 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841362020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2341302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302030303 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSLATSXLS1041302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSXLS2341302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS1941292020303 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.588
Total Annual Costs
Year: 2015

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SPPN  TSYBS1741282020703 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741282020703 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1141262020304 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1142262020203 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1142262020703 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1741282020304 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1742282020103 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBS0431142010103 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBS0431142010103 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBS1541121020103 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBS1541122020103 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWYTSZLS0841322020103 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPAWYTSZLS0841322020103 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0841322020703 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0842322020104 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOS0631041050303 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOS0631041050303 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOS0231412050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOS0231412050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOS0232412050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOS0232412050304 01     HG08         100.     731.     83.5     9.83
 3.10     9.45    12.93     0.36    29.40     2.98    12.43    16.99
UPNY  CGCOS0131022050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOS0131022050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCGCOS3141012050703 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCGCOS3141012050703 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOS0331092050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOS0331092050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020401 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBC0641112020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBC0641112020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBC0441041020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBC0441041020201 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBC0441041020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBC0441041020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSKBC0641232020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSKBC0641232020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBC0441181020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGNHTSLBN2932012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBN0641042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ExistSNCR&ACI              52               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.591
Total Annual Costs
Year: 2015

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MANOMOTSABU0541252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 SCR2HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU1041292020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| VOM | | | | | | | | | | | | Total | | Capital | FOM | Total | | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | mill/kWh | | | |
| | | | | | | | | | | | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| SPPSTXTSASU2341292020210 | 01 | | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SPPSTXTSASU2342292020210 | 01 | | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SPPSTXTSASU3541292020110 | 01 | | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SPPSTXTSASU3541292020310 | 01 | | | | | | | | | | SCR1HG12 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| PNW ORTSASU0842372020110 | 01 | | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| RMPA TSASU0841342020310 | 01 | | | | | | | | | | SCR1HG12 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| NWPE TSASU0742322020110 | 01 | | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| NWPE TSASU0841322020110 | 01 | | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| NWPE TSASU0842322020110 | 01 | | | | | | | | | | SCR2HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MECS TSBBU0441392020110 | 01 | | | | | | | | | | SCR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MECS TSBBU0441392020110 | 01 | | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO TSBBU0241041020110 | 01 | | | | | | | | | | SCR2HG05 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO TSBBU0241041020110 | 01 | | | | | | | | | | SCR2HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO TSBBU0241041020110 | 01 | | | | | | | | | | SCR2HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO TSBBU0241042020110 | 01 | | | | | | | | | | SCR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO TSBBU0241042020110 | 01 | | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO TSBBU0641062020110 | 01 | | | | | | | | | | SCR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOINTSBBU0441182020110 | 01 | | | | | | | | | | SCR1HG05 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSBBU0441041020110 | 01 | | | | | | | | | | SCR2HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSBBU0441041020110 | 01 | | | | | | | | | | SCR2HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSBBU0441042020110 | 01 | | | | | | | | | | SCR1HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAOOHTSBBU0441042020110 | 01 | | | | | | | | | | SCR1HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MANOILTSBBU0441181010110 | 01 | | | | | | | | | | SCR2HG01 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MANOILTSBBU0441181010110 | 01 | | | | | | | | | | SCR2HG11 | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |

MAPPNETSBBU1441282010310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 SCR1HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 SCR1HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 SCR1HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 SCR2HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPPNETSBSU1441282020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020510 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 SCR1HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0641102020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSCBU0841342020310 01 SCR1HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1242162020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

WUMSWITSCSU1342162020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.594
Total Annual Costs
Year: 2015

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MAPPNDTSELU0742312020110 02 SCR1HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641041020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.595
Total Annual Costs
Year: 2015

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ECAO TSHBU0441182020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.596
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Year: 2015

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NWPE  TSXBU0841402020110 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ACI & SCR                   53               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

VACANCTCOLS0641102050304 01     SCR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SCR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TRRBS0832342030304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020304 01     SCR2HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841342020303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841342020304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABS0841352020104 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBS1142252020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSEBS1541132020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSEBS1541132020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISS1141262020703 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

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ECAO TSXBS0441142020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 SCR1HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 SCR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 SCR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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AZNM TSXSS0842352020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0741322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSYBS0441042020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1141262020304 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020203 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1741282020304 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1742282020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541121020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541122020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWYTSZLS0841322020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPAWYTSZLS0841322020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0841322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0842322020104 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431182020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431182020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431192020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431042050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431042050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631051020110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631202020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631202020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOVATCOLU0331062020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     HNO1HG06       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     HNO1HG02       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.600
Total Annual Costs
Year: 2015

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CALI TCOLU0832372050710 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0832372050710 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 HNO1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 HNO1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0631191040110 01 HNO1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0631191040110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632051020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632052020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632192020210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632192020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOMDTOLBU0231082020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0432142020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBU0432142020710 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0231032020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0232032050110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 HNC1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 HNC1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632101020210 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632102020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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RMPA TSABU0841341020310 01 HNO1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 SNR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 HNC1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 HNC1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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MAPP  TSCBU1131252020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0631102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1731282010310 01     HNC1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     HNC1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     HNC1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0832342020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     HNC1HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     HNC1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

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UPNY TSFBU0131022020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 SNR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 SNR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 SNR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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VACA  TSHBU0641102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBU0632222020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBU0632222020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSHSU0432392020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0432392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0432392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1132262020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1132262020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG06       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0432392020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0432392020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0432252020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0432252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSKBU0432182020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSKBU0432182020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0632102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0432152020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.605
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MACW  CGCOU0232412050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0232412050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOU0131022050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CGCOU0931012050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  CGCOU0631102050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOU0631102050310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOU0631102050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0331092050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0831372050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0831372050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0832372050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0832372050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     HNO1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ACI & SNCR                 55               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLS0231411020703 01     HNO1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0231411020703 01     HNO1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     SNR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     SNR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Year: 2015

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WUMSWITSGBS1231392020104 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 HNO1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 HNO1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 HNO1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 SNR1HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 SNR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

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VACAVACGCOS0331092050304 01     SNR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSASS0732312020703 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASS0841342020303 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     HNO1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     HNO1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistScrub&ACI&SNCR       56               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLU0241082050710 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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ERCTTXTSABU2341292020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

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NWPE TSABU0841332020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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SPPSTXTSASU3541292020310 01     ML02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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TVA   TSBBU0641212020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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MANO TSBSU0441172020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBU0441041020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBU0441041020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | Total | | | Capital | | FOM | | | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | US$/kW/a | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MACW | TSCBU0242032020110 | | | | | | | | | | | | | 01 | LO01HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MACW | TSCBU0242032020110 | | | | | | | | | | | | | 01 | ML01HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MACW | TSCBU0242032020110 | | | | | | | | | | | | | 01 | ML01HG07 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| MACW | TSCBU0242032020110 | | | | | | | | | | | | | 01 | ML01HG11 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| UPNY | TSCBU0141022020210 | | | | | | | | | | | | | 01 | LO01HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| UPNY | TSCBU0141022020210 | | | | | | | | | | | | | 01 | ML01HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| UPNY | TSCBU0141022020210 | | | | | | | | | | | | | 01 | ML01HG07 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| UPNY | TSCBU0141022020210 | | | | | | | | | | | | | 01 | ML01HG11 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| VACA | TSCBU0641102020110 | | | | | | | | | | | | | 01 | LO01HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| VACA | TSCBU0641102020110 | | | | | | | | | | | | | 01 | ML01HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| VACA | TSCBU0641102020110 | | | | | | | | | | | | | 01 | ML01HG07 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| VACA | TSCBU0641102020110 | | | | | | | | | | | | | 01 | ML01HG11 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| TVA | TSCBU0641212020210 | | | | | | | | | | | | | 01 | LO01HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| TVA | TSCBU0641212020210 | | | | | | | | | | | | | 01 | ML01HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| TVA | TSCBU0641212020210 | | | | | | | | | | | | | 01 | ML01HG07 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| TVA | TSCBU0641212020210 | | | | | | | | | | | | | 01 | ML01HG11 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| SOU | TSCBU0641232020210 | | | | | | | | | | | | | 01 | LO01HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| SOU | TSCBU0641232020210 | | | | | | | | | | | | | 01 | ML02HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| SOU | TSCBU0641232020210 | | | | | | | | | | | | | 01 | ML02HG07 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| SOU | TSCBU0641232020210 | | | | | | | | | | | | | 01 | ML02HG11 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| RMPA | TSCBU0841342020310 | | | | | | | | | | | | | 01 | ML01HG04 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| RMPA | TSCBU0841342020310 | | | | | | | | | | | | | 01 | ML01HG08 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| RMPA | TSCBU0841342020310 | | | | | | | | | | | | | 01 | ML01HG12 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |
| WUMSWI | TSCSU1242162020110 | | | | | | | | | | | | | 01 | LO01HG03 | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | |

WUMSWITSCSU1242162020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 LO01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.614
Total Annual Costs
Year: 2015

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MECS  TSDBU0441392020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSDBU0241081020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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WUMSWITSDSU1342392010210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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MANO  TSESU0441172020310 01     ML01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641202020210 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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MECSMITSGBU0441392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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ECAO TSHBU0441041020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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MECS TSIBU0442392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 LO01HG03 0. 0. N/A 0.00
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ENTGMOTSISU0541271010110 01 ML01HG03 0. 0. N/A 0.00
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ENTGMOTSISU0541271010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LD01HG05 0. 0. N/A 0.00
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ECAO TSJBU0441051020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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ECAO TSLBU0241052020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capital Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
FRCCFLCGCOU1541132050710 01 LO01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 ML01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 ML01HG07 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 ML01HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 LO01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 ML01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 ML01HG07 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 ML01HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 LO01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 ML01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 ML01HG07 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 ML01HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBU0541272020110 01 ML01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBU0541272020110 01 ML01HG07 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBU0541272020110 01 ML01HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret.ACI & Srub 57 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

NENGNHTSABC2941011010101 01 ML01HG07 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 LO01HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 ML02HG07 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 ML02HG03 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 ML02HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABC0641232020101 01 LD01HG01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBC0641061020101 01 LO01HG03 0. 0. N/A 0.00
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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LO02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LO02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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SOU TSHBC0641112020101 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBC0441041020201 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBC0441041020201 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.623
Total Annual Costs
Year: 2015

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ECAO  TSGSC0441201020101 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistSCR&ACI&Scrub         58               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MACEDETSABN0241032020102 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACENJTSBBN0141031010102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEDETSCBN0241032020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBN0441042020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBN0441042020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSDBN0441042020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBN0641042020102 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBN0441142020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBN0441142020102 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.625
Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSGBN0441142020102 01 LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACSMDTSHBO0241081010302 01 ML01HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBO0632102020202 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBO0632102020202 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBO0632102020202 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBO0632102020202 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441041020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441041020102 01 LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441041020102 01 LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441041020102 01 LD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020102 01 LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020102 01 LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020102 01 LD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 LO01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 ML01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 ML01HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 ML01HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Ret.ExistSNCR&ACI&Scrub 59 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBD0241041020207 01 HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBD0241041020207 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSXBD0141031010107 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSXBD0141031010107 01 HG07 | 0. | 0. | N/A | 0.00 | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSXBD0341092020307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSXBD0341092020307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOD0231412050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOD0231412050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistSNCR&ExistScrub&ACI  60               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TSYBA0441192020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBA0441192020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSYBA0441041020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSYBA0141022020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSYBA0141022020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSYBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020205 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2015

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VACAWVTSABA0641052020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAWVTSABA0641052020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBA0641051020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBA0641051020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBA1541122020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSZBA0641052020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSZBA0641052020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLA0241052050705 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLA0241052050705 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTCOLA0541252020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTCOLA0541252020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLA0831402020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSFBA0241412020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSFBA0241412020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSCSA0541282020306 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441181020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     HG01         642.    4781.     85.0    12.03
 4.16    77.42    16.19     4.68    49.40    34.72   112.13    23.46
MACE  TSDBA0141011020206 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
Ret.ExistSCR&ExistScrub&ACI   61            1242.    9248.     85.0    12.19
 4.16   151.22    16.35     4.39    48.87    66.15   217.36    23.50

ECAO  TSXBE0232041020207 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TOLBU1141252020110 01     RL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTSABU0441051010110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTSABU0441051020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Total Annual Costs

Year: 2015

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SOU TSABU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 SD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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SPPS  TSASU1041292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RO01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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ECAOOHTSBBU0441041020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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MAPPSDTSBLU0742261010110 02     SL02HG09       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPNMOTSBSU0542282020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 SD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 SD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RO01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RL02HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RL02HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RL02HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

VACA TSCBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | |

MAPP TSCSU1141251020210 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSDBU1241162020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 SL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 SL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

VACANCTSDBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | |

MAPPNDTSELU0742312020110 02 RL01HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | Total | | | Capital | | FOM | | | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | |
| | MMUS$ | | mill/kWh | | | | | US$/kW/a | | US$/kW/a | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| SOU | TSESU0641112020210 | | | | | | 01 | | | RO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| SPPN | TSESU1741282020110 | | | | | | 01 | | | RO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| SPPN | TSESU1741282020110 | | | | | | 01 | | | RL01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| SPPN | TSESU1741282020110 | | | | | | 01 | | | RL01HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| SPPN | TSESU1741282020110 | | | | | | 01 | | | RL01HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSFBU0441142020110 | | | | | | 01 | | | RD01HG05 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSFBU0441142020110 | | | | | | 01 | | | RD01HG01 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSFBU0441142020110 | | | | | | 01 | | | RD01HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSFBU0441142020110 | | | | | | 01 | | | RO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOINT | SFBU0441201010110 | | | | | | 01 | | | SO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOINT | SFBU0441201010110 | | | | | | 01 | | | SL02HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOINT | SFBU0441201010110 | | | | | | 01 | | | SL02HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOINT | SFBU0441201010110 | | | | | | 01 | | | SL02HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOKYT | SFBU0641201020210 | | | | | | 01 | | | SL02HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOKYT | SFBU0641201020210 | | | | | | 01 | | | SL02HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOKYT | SFBU0641202020210 | | | | | | 01 | | | RL02HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOKYT | SFBU0641202020210 | | | | | | 01 | | | RL02HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOWV | TSFBU0641041020110 | | | | | | 01 | | | SD01HG01 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOWV | TSFBU0641042020110 | | | | | | 01 | | | RD01HG01 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANOMOT | SFBU0542251010110 | | | | | | 01 | | | SO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANOMOT | SFBU0542251010110 | | | | | | 01 | | | SL02HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANOMOT | SFBU0542251010110 | | | | | | 01 | | | SL02HG07 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANOMOT | SFBU0542251010110 | | | | | | 01 | | | SL02HG11 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| SOU | TSFBU0641112020110 | | | | | | 01 | | | RO01HG03 | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |

SOU TSFBU0641112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RO02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | |

VACANCTSGBU0642102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mill/kWh |
| | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| ECAO | TSHBU0641041020110 | 01 | | | | | | | SO01HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641041020110 | 01 | | | | | | | SL01HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641041020110 | 01 | | | | | | | SL01HG07 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641041020110 | 01 | | | | | | | SL01HG11 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641042020110 | 01 | | | | | | | RO01HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641042020110 | 01 | | | | | | | RL02HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641042020110 | 01 | | | | | | | RL02HG07 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641042020110 | 01 | | | | | | | RL02HG11 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641182020110 | 01 | | | | | | | RO01HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641182020110 | 01 | | | | | | | RL01HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641182020110 | 01 | | | | | | | RL01HG07 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0641182020110 | 01 | | | | | | | RL01HG11 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0642181020110 | 01 | | | | | | | SO01HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0642181020110 | 01 | | | | | | | SL01HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0642181020110 | 01 | | | | | | | SL01HG07 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0642181020110 | 01 | | | | | | | SL01HG11 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0642182020210 | 01 | | | | | | | RO01HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0642182020210 | 01 | | | | | | | RL01HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0642182020210 | 01 | | | | | | | RL01HG07 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSHBU0642182020210 | 01 | | | | | | | RL01HG11 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACW | TSHBU0241412020110 | 01 | | | | | | | RD02HG05 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACW | TSHBU0241412020110 | 01 | | | | | | | RD02HG01 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACW | TSHBU0241412020110 | 01 | | | | | | | RD02HG11 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACW | TSHBU0241412020110 | 01 | | | | | | | RO01HG03 | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |

MANOILTSHBU0441192020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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MANO TSKBU0441181010110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.640
Total Annual Costs
Year: 2015

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SPPNMOTSUBU0541272020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.SCR & Scrub & ACI         63               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MACW  TCOLU0241412050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSABU0441051020110 01     HO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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NWPE TSASU0842322020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 NL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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TVA   TSCBU0641212020210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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ECAO TSESU0441172020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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ECAO TSHBU0441042020310 01 NL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 NL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MAPP | TSISU1142262020110 | | | | | | | 01 | | | | | NL01HG07 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPP | TSISU1142262020110 | | | | | | | 01 | | | | | NL01HG11 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAO | TSJBU0441202020410 | | | | | | | 01 | | | | | NO01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAO | TSJBU0441202020410 | | | | | | | 01 | | | | | NL01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAO | TSJBU0441202020410 | | | | | | | 01 | | | | | NL01HG07 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAO | TSJBU0441202020410 | | | | | | | 01 | | | | | NL01HG11 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| VACANCTSKBU0641102020210 | | | | | | | | 01 | | | | | NO01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| VACANCTSKBU0641102020210 | | | | | | | | 01 | | | | | NL01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| VACANCTSKBU0641102020210 | | | | | | | | 01 | | | | | NL01HG07 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| VACANCTSKBU0641102020210 | | | | | | | | 01 | | | | | NL01HG11 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| MECSMITSLBU0441152020110 | | | | | | | | 01 | | | | | NL01HG07 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAO | TSLBU0241052020110 | | | | | | | 01 | | | | | NO01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAO | TSLBU0241052020110 | | | | | | | 01 | | | | | NL01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAO | TSLBU0241052020110 | | | | | | | 01 | | | | | NL01HG07 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAO | TSLBU0241052020110 | | | | | | | 01 | | | | | NL01HG11 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| WUMSWITSLBU1341392020110 | | | | | | | | 01 | | | | | NO01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| WUMSWITSLBU1341392020110 | | | | | | | | 01 | | | | | NL01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| WUMSWITSLBU1341392020110 | | | | | | | | 01 | | | | | NL01HG07 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| WUMSWITSLBU1341392020110 | | | | | | | | 01 | | | | | NL01HG11 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| TVA | TSLSU0641222020110 | | | | | | | 01 | | | | | NO01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| TVA | TSLSU0641222020110 | | | | | | | 01 | | | | | NL01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| TVA | TSLSU0641222020110 | | | | | | | 01 | | | | | NL01HG07 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| TVA | TSLSU0641222020110 | | | | | | | 01 | | | | | NL01HG11 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAO | TSXBU0641041020110 | | | | | | | 01 | | | | | HO01HG03 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | | | | | | | 0.00 | | | | | 0.00 | | | 0.00 | 0.00 | | 0.00 | | | | |

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ECAO  TSXBU0641041020110 01     HL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.SNCR & Scrub & ACI        64               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.646
Total Annual Costs
Year: 2015

| Unit | Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total Variable Costs MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total Fixed Costs MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXSTGAU2211 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2221 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2511 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2521 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2711 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0111 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0121 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0211 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0221 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS STGAU0412 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWISTGAU1311 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWISTGAU1321 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO STGAU0411 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO STGAU0421 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOSTGAU0511 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STGAU1111 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STGAU1112 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STGAU1121 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOSTGAU0511 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNESTGAU1411 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWISTGAU1311 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY STGAU0121 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC STGAU0121 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC STGAU0121 | 000000 00 | SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

NENG STGAU0111 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0911 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0921 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTGAU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTGAU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTGAU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA STGAU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STGAU0611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STGAU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTGAU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STGAU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STGAU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTGAU1611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STGAU1711 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STGAU1721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTGAU0511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTGAU0521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSMSSTGAU1611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2211 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU3511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0811 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0811 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.647
Total Annual Costs
Year: 2015

| | | |

NENG STHSU2821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STHSU2822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHSTHSU2922 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1522 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTHSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU2721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU3421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1711 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1712 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.648
Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total VOM MMUS$ | Capital US$/kW/a | FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXSTLSU2212 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU2221 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU2222 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU2321 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU2322 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU2422 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU2511 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU2512 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU2521 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU2522 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU3521 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTLSU3522 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STLSU0121 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STLSU0122 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STLSU0221 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STLSU0222 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS STLSU0221 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS STLSU0222 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO STLSU0412 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO STLSU0421 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STLSU0711 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STLSU0721 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STLSU1111 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STLSU1112 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPPNESTLSU1412 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNESTLSU1421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNESTLSU1422 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC STLSU0122 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STLSU0922 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STLSU2821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTLSU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTLSU3222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1512 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1522 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVASTLSU0321 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVASTLSU0322 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTLSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTLSU1622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STLSU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STLSU1022 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTLSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTLSU1622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTLSU1821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTLSU0512 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTLSU0521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | | Gener. | | C.F. | | Fuel | | | |
| VOM | | | Total | | | Capital | | FOM | | | Total | | | | | Total | | | | | | | |
| Unit | Name | | | | | | | | | | [MW] | | | | | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | MMUS$ | | | | | MMUS$ | | mill/kWh | | | | | |
| SPPS | STLSU1012 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPS | STLSU1021 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPS | STLSU1022 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPS | STLSU3612 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPS | STLSU3621 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPS | STLSU3622 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPSMS | STLSU1612 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPSTX | STLSU2221 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPSTX | STLSU2222 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPSTX | STLSU2521 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPSTX | STLSU2522 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPSTX | STLSU3522 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| CALI | STLSU0821 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| CALI | STLSU0822 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| PNW | STLSU0721 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| AZNM | STLSU0812 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| AZNM | STLSU0821 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| AZNM | STLSU0822 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| AZNMTX | STLSU2621 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| NWPE | STLSU0821 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| NWPE | STLSU0822 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ERCTTX | CGGAU1811 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MACE | CGGAU0221 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | CGGAU0411 | 000000 | 00 | | | SCO1 | | | | | 0. | | | | | 0. | | N/A | | | 0.00 | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |

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FRCCFLCGGAU1511   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   CGGAU0611   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  CGGAU1011   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.O/G SCR                   65              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2711   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0111   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0121   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  STGAU0412   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1311   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOSTGAU0511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.650
Total Annual Costs
Year: 2015

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SPPN  STGAU1721   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTGAU0511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTGAU0521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3611   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTGAU1611   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU3511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAU0811   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  STGAU0811   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  STGAU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0811   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  STGAU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0422   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU1821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2021   000000 00     SCN1         185.     195.     12.0    29.04
 3.02     6.26    32.06     0.72    20.70     3.97    10.23    52.37
ERCTTXSTHSU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2421   000000 00     SCN1         795.    1467.     21.1    28.35
 3.02    46.03    31.37     0.84    20.30    16.81    62.83    42.82
ERCTTXSTHSU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0112   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0121   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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SPPN STHSU1721 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2212 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2221 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2222 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2321 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2322 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2422 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2511 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2512 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2522 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3522 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0121 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0122 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0221 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.652
Total Annual Costs
Year: 2015

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FRCCFLSTLSU1521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLSTLSU1522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0322   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1022   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0512   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1012   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1022   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3612   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTLSU1612   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2222   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU3522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   STLSU0721   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.653
Total Annual Costs
Year: 2015

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capacity Total [MW] Gener. Total [GWh] C.F. Total [%] Fuel mill/kWh
Unit Name MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh mill/kWh
AZNM STLSU0812 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STLSU0821 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STLSU0822 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNMTXSTLSU2621 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE STLSU0821 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE STLSU0822 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXCGGAU1811 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGGAU0221 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGGAU0411 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGGAU1511 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA CGGAU0611 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG CGGAU1011 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret.O/G SNCR 66 980. 1662. 19.4 28.43 3.02 52.29 31.45 0.82 20.38 20.77 73.06 43.95
Ret.Nuclear (age 30+10 yrs) 67 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret.Nuclear (age 40+20 yrs) 68 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret. Biomass Cofiring 69 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS CT 0411 000000 00 RET1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS CT 0412 000000 00 RET1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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MECS  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0213   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0412   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0423   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0612   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0614   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0622   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0623   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0624   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVACT   0322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1814   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1922   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1923   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1924   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2312   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.654
Total Annual Costs
Year: 2015

| Unit Name | VOM | Total | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel | Variable Costs |
|---|---|---|---|---|---|---|---|---|---|
| | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | mill/kWh | mill/kWh |
| ERCTTXCT 2322 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2323 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2414 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2512 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2514 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2722 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3514 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3522 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3523 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3524 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0113 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0114 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0122 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0123 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0124 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0212 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0213 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0214 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0222 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0223 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEVACT 0312 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEVACT 0314 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEVACT 0323 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CT 0213 000000 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACW  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0211   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0212   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSVACT   0322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1312   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1323   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1324   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0411   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0412   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0512   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0513   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0514   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0522   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.655
Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total Variable Costs MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total Fixed Costs MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MANOMOCT 0523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOCT 0524 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0414 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0712 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0713 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0714 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0722 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0724 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1111 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1112 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1113 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1114 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1122 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1123 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1124 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCT 0513 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCT 0523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1412 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1413 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1414 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1422 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1423 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1424 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWICT 1312 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MAPPWICT   1313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1323   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0113   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0123   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0113   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0123   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0912   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0914   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0923   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   2814   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3212   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3213   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.656
Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENGCTCT 3222 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCT 3223 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCT 3224 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHCT 2914 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHCT 3014 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1512 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1513 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1514 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1522 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1524 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0612 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0613 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0614 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0622 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0623 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0624 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0611 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0613 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0614 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0622 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0623 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0624 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT 0312 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACAVACT | 0313 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0314 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0322 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0324 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0612 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0623 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1612 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0611 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0613 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0623 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0624 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1613 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1624 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1012 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1014 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1022 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1023 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCT | 0513 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCT | 0522 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT | 1711 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT | 1712 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.657
Total Annual Costs
Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPSMSCT | 1614 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2214 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2322 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2512 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2513 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2514 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2524 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2722 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 3513 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 3514 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0812 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0813 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0814 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0821 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0823 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0824 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0714 | 000000 | 00 | RET1 | | 30. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0722 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0724 | 000000 | 00 | RET1 | | 28. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0812 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0814 | 000000 | 00 | RET1 | | 6. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0813 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0814 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0823 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0824 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNMTXCT | 3523 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT | 0713 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT | 0714 | 000000 | 00 | RET1 | | 10. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.658
Total Annual Costs
Year: 2015

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ERCTTXCGCT 2711 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0111 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0122 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0222 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCT 0212 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCT 0222 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCT 0412 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCT 1112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCT 0122 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCT 0111 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCT 0912 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCT 0922 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCT 3112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHCGCT 3012 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCT 1512 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCT 1522 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCT 0612 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCT 0311 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCT 0312 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA CGCT 0622 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCT 0612 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSCGCT 1622 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG CGCT 1012 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG CGCT 1022 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXCGCT 2712 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXCGCT 2722 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN CGCT 1712 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2322   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2513   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2514   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2523   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2524   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2722   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   3522   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   3523   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0224   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACS  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWICC   1322   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  CC   0413   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  CC   0422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANOMOCC   0522   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   0422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1113   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1124   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPNECC   1422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
DSNY  CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
DSNY  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NYC   CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NYC   CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
LILC  CC   0113   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.660
Total Annual Costs
Year: 2015

| Unit Name | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOU | CC | 0622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU FLCC | | 1522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCC | | 1622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | CC | 1022 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | CC | 1023 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCC | | 1622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCC | | 0522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCC | | 2322 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCC | | 0522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 1022 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3613 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3623 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3624 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSMSCC | | 1613 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 2322 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 2722 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 3522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0812 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0813 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0823 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0824 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0722 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0723 | 000000 | 00 | RET2 | 170. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0823 | 000000 | 00 | RET2 | 493. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0812 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0813 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0823 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.661
Total Annual Costs
Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| AZNM CC 0824 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNMTXCC 3523 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CC 0822 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CC 0823 000000 00 RET2 | 107. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CC 0722 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CGCC 0413 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CGCC 0421 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CGCC 0422 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CGCC 0423 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CGCC 0422 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1911 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1912 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1913 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1921 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1922 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1923 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 2313 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 2322 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 2323 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 2711 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 2722 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 3513 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 3523 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CGCC 0111 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MACE CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0121 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0221 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0222 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCC 0213 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCC 0223 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS CGCC 0223 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0412 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0413 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0422 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

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CALI  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0813   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0823   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0722   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0723   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0813   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0823   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0813   000000 00     RET2          60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0823   000000 00     RET2         383.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCC 0811   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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CC Early Retirement           71            1213.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.663
Total Annual Costs
Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENG | STGAU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0911 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0921 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STGAU3221 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STGAU1511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STGAU1521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | STGAU0621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STGAU0611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STGAU0621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STGAU1621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STGAU1011 | 000000 | 00 | RET3 | 86. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STGAU1021 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STGAU1611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STGAU1711 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STGAU1721 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STGAU0511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STGAU0521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU1011 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU1021 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU3611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU3621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSMS | STGAU1611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2211 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU3511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | STGAU0811 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | STGAU0821 | 000000 | 00 | RET3 | 897. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | STGAU0811 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | STGAU0821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | STGAU0811 | 000000 | 00 | RET3 | 75. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.664
Total Annual Costs
Year: 2015

| | | |

NENG STHSU2822 000000 00 RET3 569. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3221 000000 00 RET3 567. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3222 000000 00 RET3 400. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHSTHSU2922 000000 00 RET3 406. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1511 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1521 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1522 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0621 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0622 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTHSU1621 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU2721 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU3421 000000 00 RET3 1410. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1711 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1712 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1721 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 RET3 467. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 RET3 105. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 RET3 23. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 RET3 68. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSN0121 000000 00 RET3 155. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSN3221 000000 00 RET3 566. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | STLSU1112 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1412 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1421 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1422 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC | STLSU0122 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU0922 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU2821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STLSU3221 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STLSU3222 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1512 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1522 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | STLSU0321 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | STLSU0322 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STLSU1621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STLSU1622 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STLSU1021 | 000000 | 00 | RET3 | 3240. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STLSU1022 | 000000 | 00 | RET3 | 3933. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STLSU1621 | 000000 | 00 | RET3 | 1552. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STLSU1622 | 000000 | 00 | RET3 | 356. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTX | STLSU1821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STLSU0512 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STLSU0521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STLSU0821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STLSU0822 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.666
Total Annual Costs
Year: 2015

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CALI  STLSC0821   000000 00     RET3        4724.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0812   000000 00     RET3          13.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0821   000000 00     RET3        1433.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0822   000000 00     RET3         814.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCGGAU1811   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGGAU0221   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CGGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGGAU1511   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   CGGAU0611   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  CGGAU1011   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CGHSC2821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGLSN0821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSC1821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSC1921   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STHSC0821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STHSC0822   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO2521   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO3521   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2021   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2022   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STLSO0922   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STGAO0111   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAC0821   000000 00     RET3          86.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STHSD2821   000000 00     RET3         378.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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O/G Early Retirement          72          29276.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  TCOLU0411392050710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431152020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0211412050710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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MANO TCOLU0442192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTCOLU0511282050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU0711312050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU0731311040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111261040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111271040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111261040310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111252020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111262050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131261040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131272020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131262020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311161010710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311162020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311162040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0131022020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TCOLU0911012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTCOLU1531132020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631041050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATCOLU0331092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731281020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPNMOTCOLU0511252050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTCOLU0511272050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTCOLU3531292050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI TCOLU0811372050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI TCOLU0832372050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811351020710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811402050110 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811342050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0811352050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TCOLU0831331020310 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TCOLU0811332050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TCOLU0831332050710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TCOLN0131022020102 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTCOLN2931012020102 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLS0231411020703 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLS0611182020703 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TCOLS0631041050303 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLS0231412050304 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITCOLS1231391020104 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TCOLS1111252020203 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTCOLS0641102050304 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATCOLS0331092050304 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW TABU 0711371030710 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TABS 0631042050304 | 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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TVA   TSWBS0642202030303 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     RET4          93.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411181020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411182020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0611191020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     RET4         146.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     RET4          64.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOMDTOLBU0231082020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020110 01     RET4         196.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01     RET4          62.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01     RET4         126.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0232032050110 01     RET4          48.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1312162020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBU0432192010210 01     RET4         108.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTOLBU0532281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOTOLBU0512282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOTOLBU0532281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBU0632101020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBU0632102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1732282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| SPPN | TOLBU1742282020110 | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0511281020110 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0531281010110 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0531281020110 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0531282020110 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0532281010110 | | | | | | | | | | 01 | | | | RET4 | | 53. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOHTOLBS0432142020304 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWITOLBS1312162030304 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TOLBS0432191010103 | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TOLBS0432192010203 | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLSU0542281010110 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | TOLSU0812321020110 | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TRRBU0432042020110 | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | TRRBS0832342030304 | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | TSABU0441391020110 | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TSABU0441201020110 | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOHTSABU0441051010110 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOHTSABU0441051020110 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTXTSABU2341292020210 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACWPATSABU0241032020110 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TSABU0441182020110 | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOTSABU0541252020110 | | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOTSABU0542252020110 | | | | | | | | | | 01 | | | | RET4 | | 877. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TSABU1141282020110 | | | | | | | | | 01 | | | | RET4 | | 0. | 0. | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

MAPP TSABU1141282010210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSABC2941011010101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABC0641232020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSABN0241032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABS0241032020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABS0841352020104 01 RET4 200. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MANO | TSASU0441202020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWI | TSASU1331162020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWI | TSASU1332162020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | TSASU1041292020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | TSASU1042292020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | TSASU1041292020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | TSASU3641282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TSASU2341292020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TSASU2342292020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TSASU3541292020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TSASU3541292020310 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORT | SASU0842372020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSASU0832342020310 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSASU0841342020310 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0742322020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0841322020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0842322020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSBBU0441392020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0241041020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0241042020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0632061020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0632062020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0641062020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINT | SBBU0441182020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSBBU0431042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112271020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112272040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 RET4 26. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSBBU0812341020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241041020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241042020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0231032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0241032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSBBN0141031010102 01 RET4 129. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSBBN0641102020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2241302020110 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2241302020410 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2242302020410 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPSDTSBLU0742261010110 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBSU0441392020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBSU2341292020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0432172010110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1432282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1432282020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1441282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1441282020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020510 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0431181020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0432181020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACE  TSCBU0131032020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBU0231032020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     RET4         438.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1131272010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1131252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     RET4          84.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0631102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1731282010310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0832342020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020510 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.672
Total Annual Costs
Year: 2015

| Unit Name | VOM | Total | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel | Variable Costs | Fixed Costs | Total Costs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | mill/kWh | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | mill/kWh | mill/kWh | mill/kWh |
| MAPP TSCSU1141251020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141252020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141252020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1142252020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSCSU1342162020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSDBU0441392020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBU0641062020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOVATSDBU0341061020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOWVTSDBU0641051010110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACSMDTSDBU0241081020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSDBC0641061020101 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441041020101 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBC0441042020101 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBC0641101020101 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ECAOOHTSDBN0441042020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0232032020110 01     RET4          83.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     RET4         128.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0632232020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020401 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

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ECAOWVTSFBU0641041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 RET4 69. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RET4 0. 0. N/A 0.00
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SPPN TSFBU1742282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBC0641112020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 RET4 153. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 RET4 74. 0. N/A 0.00
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MANOMOTSGBU0511271040310 01 RET4 0. 0. N/A 0.00
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MANOMOTSGBU0511272020710 01 RET4 0. 0. N/A 0.00
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MANOMOTSGBU0531272040310 01 RET4 0. 0. N/A 0.00
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MAPP TSGBU1132271010110 01 RET4 0. 0. N/A 0.00
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MAPP TSGBU1132272020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RET4 0. 0. N/A 0.00
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UPNY TSGBU0141022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

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MANOILTSHBU0441192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBC0241411020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBC0241412020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBC0641112020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RET4 0. 0. N/A 0.00
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ECAO TSISU0441171010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RET4 0. 0. N/A 0.00
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MAPPWITSISU1341392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 RET4 110. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISS0541272020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 RET4 0. 0. N/A 0.00
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WUMS TSJBU0431392020110 01 RET4 0. 0. N/A 0.00
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WUMS TSJBU0431392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.675
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SPPNMOTSLBU0531281020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSLBN2932012020102 01 RET4 48. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSLSU0712261020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841352020203 01 RET4 0. 0. N/A 0.00
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AZNM TSUBS0841362020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 RET4 0. 0. N/A 0.00
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RMPA TSUBS0841332020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0441142020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.676
Total Annual Costs
Year: 2015

| | | |

ERCTTXTSXLS2342302030303 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSLATSXLS1041302020103 02 RET4 650. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSXLS2341302020103 02 RET4 650. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS1941292020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS3541292020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSXSS3642282020104 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841351020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSXSS0832402020104 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0741322020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBU0432191010210 01 RET4 34. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0432192020204 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSYBS0441042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2015

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| | | | | | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| SPPN | TSYBS1742282020703 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSYBA0441192020105 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAOOH | TSYBA0441041020105 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| UPNY | TSYBA0141022020105 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| TVA KY | TSYBA0641201010105 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TSYSS1141262020304 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TSYSS1142262020203 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | TSYSS1142262020703 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | TSYSS1741282020304 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | TSYSS1742282020103 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TSZBU0431192020110 | 01 | RET4 | 74. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MANO | TSZBU0432192010210 | 01 | RET4 | 40. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACW | TSZBN0241031020102 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | TSZBS0431142010103 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MACE | TSZBS0241032020203 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFL | TSZBS1541121020103 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFL | TSZBS1541122020103 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPPWY | TSZLS0841322020103 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPAWY | TSZLS0841322020103 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPEWY | TSZLS0841322020703 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPEWY | TSZLS0842322020104 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MECS | CGCOU0431392050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | CGCOU0231412050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ECAO | CGCOU0411142050710 | 01 | RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

MACE CGCOU0141012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0211412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0211412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0231412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0232412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1211162050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1311162050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOU0131022050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCOU0931012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CGCOU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0311092050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0331092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCOU0611112050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0811372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0831372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0832372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE CGCOU0731322050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

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VACANCTSBBC0641101020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBA0341092020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSABA0141011020206 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSABA1541132020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAWVTSABA0641052020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSZBA0641051020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBA1541122020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSZBA0641052020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLA0641202020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLA0241052050705 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLA0411182020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA MSTCOLA1641242020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLA0541252020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLA0831402020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0332092020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBO0632102020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBS0441041020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSS0542282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PNW WATSBSS0741372020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSO1332392020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSDSS0541282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESS1741282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBN0641042020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBN0131022020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSFBA0241412020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2015

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ECAO  TSVBA0641201010105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441181020105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Coal Early Retirement         73            5516.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  NUKE 00    9000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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ECAO  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCT  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCT  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2015

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WUMS  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Nuke Early Retirement         74                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Total                                     1016890. 4505342.     50.6    11.95
 1.89 62328.36    13.83     5.49    31.69 37804.39 ********    22.23
(**) Industrial Boiler unitary costs per MBtu, not used in the total averages of
 unitary costs
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.682
Total Annual Costs
Year: 2020

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VACA  TSZBA0641052020105 01                    521.    3880.     85.0     7.58
 3.91    44.57    11.49     0.00    43.30    22.56    67.13    17.30
ECAO  TCOLA0641202020105 01                    268.    1996.     85.0     6.21
 3.91    20.19    10.12     0.00    23.60     6.32    26.51    13.29
MACW  TCOLA0241052050705 01                    520.    3872.     85.0     6.96
 3.91    42.08    10.87     0.00    23.60    12.27    54.35    14.04
MANO  TCOLA0411182020105 01                     18.     134.     85.0     6.14
 3.91     1.35    10.05     0.00    23.60     0.42     1.77    13.22
TVA MSTCOLA1641242020105 01                    440.    3276.     85.0     9.20
 3.91    42.96    13.11     0.00    23.60    10.38    53.34    16.28
SPPNMOTCOLA0541252020105 01                    540.    4021.     85.0     6.48
 3.91    41.80    10.39     0.00    23.60    12.74    54.54    13.56
RMPA  TCOLA0831402020105 01                     80.     596.     85.0     6.08
 3.91     5.95     9.99     0.00    23.60     1.89     7.84    13.16
MACW  TSFBA0241412020105 01                    650.    4840.     85.0     8.39
 3.91    59.56    12.30     0.00    43.30    28.14    87.70    18.12
ECAO  TSXBE0232041020207 01                    194.    1341.     78.9     9.85
 3.85    18.37    13.70     0.00    43.30     8.40    26.77    19.96
ECAO  TSXBE0242041020207 01                    109.     812.     85.0     8.77
 3.85    10.25    12.62     0.00    43.30     4.72    14.97    18.44
MACE  TSZBD0241032020707 01                    144.    1072.     85.0    11.92
 3.85    16.91    15.77     0.00    43.10     6.21    23.12    21.56
MECS  TCOLE0411391030308 01                     20.     149.     85.0    10.37
 3.85     2.12    14.22     0.00    43.30     0.87     2.98    20.04
MANO  TCOLD0431182050307 01                     42.     313.     85.0     7.09
 3.85     3.42    10.94     0.00    23.30     0.98     4.40    14.07
VACAVATCOLD0331092050308 01                     57.     424.     85.0    10.92
 3.85     6.27    14.77     0.00    23.30     1.33     7.60    17.90
SPPNMOTSCSA0541282020306 01                    550.    4095.     85.0     8.38
 3.91    50.31    12.29     0.00    43.30    23.82    74.13    18.10
NENG  TSDBD2831012020107 01                     78.     581.     85.0    12.87
 3.85     9.71    16.72     0.00    43.10     3.36    13.07    22.51
ECAO  TSVBA0641201010105 01                    141.    1050.     85.0     6.91
 3.91    11.36    10.82     0.00    43.50     6.13    17.49    16.66
ECAOINTSVBA0441181020105 01                    619.    4609.     85.0     6.90
 3.91    49.81    10.81     0.00    41.20    25.50    75.31    16.34
ECAOINTSVBA0441182020105 01                    865.    6441.     85.0     6.81
 3.91    69.05    10.72     0.00    41.80    36.16   105.21    16.33
MACE  TSDBA0141011020206 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.50     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01                    977.    7275.     85.0     6.94
 3.91    78.97    10.85     0.00    43.30    42.30   121.27    16.67
NENG  CPC  1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CPC  1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCPC  32    (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCPC  32    (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CPC  1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CPC  1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CPC  1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CPC  1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CPC  1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CPC  1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.683
Total Annual Costs
Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXCPC | 19 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCPC | 19 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCC CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCPC | 6 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCPC | 6 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 1 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 1 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CPC | 8 | (b) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CPC | 8 | (a) | | | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Total Annual Costs
Year: 2020

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capacity Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
ENTG CPC 8 (b) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOCPC 5 (a) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOCPC 5 (b) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CPC 1 (a) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CPC 1 (b) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CPC 8 (a) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CPC 8 (b) 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Scrubbed Coal_NOx 1 26025. 193686. 85.0 8.31 3.91 2365.34 12.21 0.00 39.82 1036.22 3401.55 17.56

ECAO TCOLS0231411020703 01 176. 1216. 78.9 10.07 2.94 15.83 13.01 0.00 43.00 7.57 23.40 19.24
ECAO TCOLS0611182020703 01 53. 395. 85.0 7.09 2.94 3.96 10.03 0.00 43.00 2.28 6.24 15.81
ECAO TCOLS0631041050303 01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 23.10 0.00 0.00 0.00
MACW TCOLS0231412050304 01 32. 238. 85.0 10.07 2.94 3.10 13.01 0.00 23.10 0.74 3.84 16.12
WUMSWITCOLS1231391020104 01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 43.00 0.00 0.00 0.00
MAPP TCOLS1111252020203 01 76. 566. 85.0 9.89 2.94 7.26 12.83 0.00 43.00 3.27 10.53 18.60
VACANCTCOLS0641102050304 01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 23.10 0.00 0.00 0.00
VACAVATCOLS0331092050304 01 35. 261. 85.0 10.92 2.94 3.61 13.86 0.00 23.10 0.81 4.42 16.96
VACA TABS 0631042050304 01 74. 551. 85.0 8.40 2.94 6.25 11.34 0.00 23.10 1.71 7.96 14.44
TVA TSWBS0642202030303 01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 28.10 0.00 0.00 0.00
MAPP TSWLS0732312030103 02 74. 462. 71.2 10.83 2.94 6.36 13.77 0.00 43.00 3.18 9.54 20.66
MAPP TSWSS1132261030103 01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 40.60 0.00 0.00 0.00
ECAOOHTOLBS0432142020304 01 49. 274. 63.9 10.82 2.94 3.77 13.76 0.00 42.70 2.09 5.87 21.39
WUMSWITOLBS1312162030304 01 22. 164. 85.0 9.75 2.94 2.08 12.69 0.00 43.00 0.95 3.02 18.46
MANO TOLBS0432191010103 01 86. 640. 85.0 7.19
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 2.94     6.49    10.13     0.00    42.70     3.67    10.16    15.86
MANO  TOLBS0432192010203 01                    88.     655.     85.0     7.20
 2.94     6.64    10.14     0.00    42.70     3.76    10.40    15.87
RMPA  TRRBS0832342030304 01                   100.     745.     85.0     8.36
 2.94     8.41    11.30     0.00    23.10     2.31    10.72    14.40
MACWPATSABS0241032020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01                   158.    1177.     85.0     7.26
 2.94    11.99    10.20     0.00    43.00     6.79    18.79    15.97
RMPA  TSABS0841341020304 01                   107.     797.     85.0     7.22
 2.94     8.09    10.16     0.00    43.00     4.60    12.70    15.93
RMPA  TSABS0841342020303 01                   352.    2621.     85.0     6.90
 2.94    25.78     9.84     0.00    42.70    15.03    40.81    15.57
RMPA  TSABS0841342020304 01                   446.    3321.     85.0     7.53
 2.94    34.79    10.47     0.00    42.80    19.09    53.88    16.22
NWPE  TSABS0841352020104 01                  1380.   10086.     83.5    12.69
 2.94   157.66    15.63     0.00    42.70    58.91   216.56    21.47
ECAOOHTSEBS0431141010103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
MAPP  TSEBS1142252020103 01                   217.    1500.     78.9    11.08
 2.94    21.02    14.02     0.00    43.00     9.33    30.36    20.24
FRCCFLTSEBS1541132020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    42.70     0.00     0.00     0.00
WUMSWITSGBS1231392020104 01                    80.     499.     71.2    10.25
 2.94     6.58    13.19     0.00    43.00     3.44    10.02    20.08
MANOILTSGBS0412191020703 01                    22.     164.     85.0     7.60
 2.94     1.73    10.54     0.00    43.00     0.95     2.67    16.31
FRCCFLTSGBS1531132020103 01                    88.     655.     85.0    13.52
 2.94    10.78    16.46     0.00    43.00     3.78    14.57    22.23
FRCCFLTSGBS1532132020103 01                    87.     648.     85.0    14.04
 2.94    11.00    16.98     0.00    43.00     3.74    14.74    22.76
FRCCFLTSGBS1541132020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
MAPP  TSISS1132262020703 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
MAPP  TSISS1141262020703 01                   350.    2606.     85.0    10.06
 2.94    33.89    13.00     0.00    42.70    14.95    48.83    18.74
ENTGMOTSISS0541272020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    40.60     0.00     0.00     0.00
SPPNMOTSUBS0541272020103 01                   178.    1325.     85.0    10.79
 2.94    18.20    13.73     0.00    42.70     7.60    25.80    19.47
AZNM  TSUBS0841361020203 01                   365.    2718.     85.0     9.88
 2.94    34.86    12.82     0.00    40.60    14.82    49.67    18.28
AZNM  TSUBS0841352020203 01                  2250.   16754.     85.0    11.92
 2.94   248.96    14.86     0.00    42.70    96.08   345.04    20.59
AZNM  TSUBS0841362020203 01                  1095.    8154.     85.0     9.97
 2.94   105.26    12.91     0.00    40.60    44.46   149.72    18.36
AZNM  TSUBS0841362020304 01                   720.    5361.     85.0     8.71
 2.94    62.46    11.65     0.00    34.40    24.77    87.23    16.27
AZNM  TSUBS0841362020703 01                   355.    2643.     85.0    10.03
 2.94    34.29    12.97     0.00    41.30    14.66    48.95    18.52
RMPA  TSUBS0841332020304 01                   262.    1951.     85.0     6.20
 2.94    17.83     9.14     0.00    40.60    10.64    28.47    14.59
RMPA  TSUBS0842332020203 01                   856.    6374.     85.0     6.30
 2.94    58.88     9.24     0.00    40.60    34.75    93.63    14.69
RMPA  TSUBS0842332020304 01                   519.    3865.     85.0     6.29
 2.94    35.67     9.23     0.00    41.10    21.33    57.00    14.75
ECAO  TSVBS0641201020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    42.70     0.00     0.00     0.00
ECAO  TSVBS0641202020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    42.70     0.00     0.00     0.00
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SOU MSTSXBS1641292020203 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 40.60 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 275. 2048. 85.0 10.06
2.94 26.63 13.00 0.00 40.60 11.16 37.79 18.46
AZNM TSXBS0841362020703 01 220. 1638. 85.0 10.16
2.94 21.46 13.10 0.00 42.80 9.42 30.88 18.85
AZNM TSXBS0842362020703 01 110. 819. 85.0 10.55
2.94 11.05 13.49 0.00 42.70 4.70 15.75 19.22
NWPE TSXBS0841332020103 01 1250. 9308. 85.0 5.86
2.94 81.88 8.80 0.00 41.30 51.63 133.51 14.34
NWPE TSXBS0841402020103 01 2410. 17946. 85.0 6.74
2.94 173.77 9.68 0.00 42.30 101.94 275.72 15.36
NWPE TSXBS0841332020303 01 2440. 18169. 85.0 5.84
2.94 159.61 8.78 0.00 40.60 99.06 258.67 14.24
NWPE TSXBS0841362020304 01 274. 2040. 85.0 9.69
2.94 25.76 12.63 0.00 40.60 11.12 36.89 18.08
ERCTTXTSXLS2341302020103 02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 40.60 0.00 0.00 0.00
ERCTTXTSXLS2342302020103 02 4152. 18562. 51.0 13.04
2.94 296.56 15.98 0.00 41.00 170.24 466.80 25.15
ERCTTXTSXLS2342302030303 02 300. 2234. 85.0 12.60
2.94 34.71 15.54 0.00 28.10 8.43 43.14 19.31
MAPPNDTSXLS0732312020304 02 69. 514. 85.0 8.83
2.94 6.05 11.77 0.00 40.60 2.80 8.85 17.22
MAPPNDTSXLS0741311020103 02 604. 4174. 78.9 8.46
2.94 47.60 11.40 0.00 40.60 24.52 72.12 17.28
MAPPNDTSXLS0742311010103 02 420. 3127. 85.0 9.44
2.94 38.72 12.38 0.00 42.70 17.93 56.65 18.11
MAPPNDTSXLS0742312010304 02 421. 2910. 78.9 9.25
2.94 35.47 12.19 0.00 40.60 17.09 52.56 18.07
MAPPNDTSXLS0742312020304 02 900. 6702. 85.0 8.91
2.94 79.42 11.85 0.00 40.60 36.54 115.96 17.30
SPPSLATSXLS1041302020103 02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 40.60 0.00 0.00 0.00
SPPSTXTSXLS2341302020103 02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 40.60 0.00 0.00 0.00
ERCTTXTSXSS1941292020303 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 40.60 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 40.60 0.00 0.00 0.00
ERCTTXTSXSS2341292020303 01 530. 3947. 85.0 11.05
2.94 55.20 13.99 0.00 23.10 12.24 67.44 17.09
ERCTTXTSXSS3541292020103 01 676. 5034. 85.0 11.49
2.94 72.63 14.43 0.00 40.60 27.45 100.08 19.88
SPPS TSXSS3642282020104 01 520. 3872. 85.0 8.73
2.94 45.17 11.67 0.00 40.60 21.11 66.29 17.12
AZNM TSXSS0841351020303 01 1480. 11021. 85.0 12.10
2.94 165.70 15.04 0.00 42.70 63.20 228.90 20.77
AZNM TSXSS0841352020203 01 498. 3708. 85.0 13.01
2.94 59.14 15.95 0.00 40.60 20.22 79.36 21.40
AZNM TSXSS0841352020303 01 235. 1750. 85.0 13.03
2.94 27.95 15.97 0.00 40.60 9.54 37.49 21.42
AZNM TSXSS0842351020203 01 312. 1946. 71.2 16.11
2.94 37.08 19.05 0.00 42.70 13.32 50.40 25.90
AZNM TSXSS0842351020703 01 220. 1638. 85.0 13.81
2.94 27.44 16.75 0.00 43.00 9.46 36.90 22.52
AZNM TSXSS0842352020203 01 804. 5015. 71.2 14.85
2.94 89.24 17.79 0.00 41.50 33.37 122.60 24.45
AZNM TSXSS0842352020703 01 340. 2532. 85.0 13.46
2.94 41.52 16.40 0.00 43.00 14.62 56.14 22.17
RMPA TSXSS0832402020104 01 80. 596. 85.0 8.47
2.94 6.80 11.41 0.00 23.10 1.85 8.65 14.52

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RMPA  TSASS0841342020303 01                    178.    1325.     85.0     7.70
 2.94    14.10    10.64     0.00    43.00     7.65    21.76    16.42
ECAOOHTSBBS0441041020304 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    43.00     0.00     0.00     0.00
PNW WATSBSS0741372020103 01                  1340.    9978.     85.0     8.11
 2.94   110.23    11.05     0.00    42.70    57.22   167.45    16.78
SPPNMOTSDSS0541282020103 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    40.60     0.00     0.00     0.00
SPPN  TSESS1741282020103 01                   668.    4974.     85.0     8.49
 2.94    56.87    11.43     0.00    42.70    28.52    85.39    17.17
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Scrubbed Coal                   2           43512.  309073.     81.1     9.24
 2.94  3764.15    12.18     0.00    40.86  1778.02  5542.17    17.93

UPNY  TCOLN0131022020102 01                    47.     300.     72.9    15.04
 2.45     5.25    17.49     0.00    32.20     1.51     6.77    22.53
NENGNHTCOLN2931012020102 01                    97.     402.     47.3    16.44
 2.45     7.59    18.89     0.00    32.20     3.12    10.72    26.66
NENGNHTSABC2941011010101 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.40     0.00     0.00     0.00
VACANCTSABC0641101020201 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    23.00     0.00     0.00     0.00
SOU ALTSABC0641232020101 01                  1341.    9985.     85.0    10.64
 2.51   131.32    13.15     0.00    17.20    23.07   154.38    15.46
MACEDETSABN0241032020102 01                   403.    2255.     63.9    14.88
 2.45    39.08    17.33     0.00    22.60     9.11    48.19    21.37
ECAO  TSBBN0241041020102 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.60     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.20     0.00     0.00     0.00
MACE  TSBBN0231032020102 01                    84.     470.     63.9    14.96
 2.45     8.18    17.41     0.00    32.20     2.70    10.89    23.16
MACE  TSBBN0241032020102 01                   167.    1042.     71.2    14.11
 2.45    17.25    16.56     0.00    32.20     5.38    22.63    21.72
MACENJTSBBN0141031010102 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.20     0.00     0.00     0.00
VACANCTSBBN0641102020102 01                   514.    3827.     85.0    12.39
 2.45    56.81    14.84     0.00    32.20    16.55    73.36    19.17
VACAVATSBBN0341091020102 01                   389.    2439.     71.6    13.79
 2.45    39.60    16.24     0.00    32.20    12.53    52.12    21.37
VACAVATSBBN0341092020102 01                   142.     981.     78.9    13.21
 2.45    15.36    15.66     0.00    32.20     4.57    19.94    20.32
VACAVATSBBN0341092020202 01                   156.     978.     71.6    13.18
 2.45    15.29    15.63     0.00    32.20     5.02    20.31    20.77
MACEDETSCBN0241032020102 01                   162.    1120.     78.9    13.37
 2.45    17.71    15.82     0.00    26.60     4.31    22.02    19.66
MANO  TSCSO0441182010102 01                   292.    2018.     78.9    10.81
 1.54    24.93    12.35     0.00    32.30     9.43    34.36    17.03
ECAO  TSDBC0641061020101 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.20     0.00     0.00     0.00
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VACANCTSBBC0641102020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.30     0.00     0.00     0.00
MACEVATOLBO0332092020202 01                  176.     729.     47.3    15.97
 1.54    12.77    17.51     0.00    32.30     5.68    18.46    25.30
MACEVATOLBO0341092020202 01                  306.    2115.     78.9    13.01
 1.54    30.76    14.55     0.00    32.30     9.88    40.64    19.22
VACANCTOLBO0632102020202 01                   76.     476.     71.6    14.14
 1.54     7.47    15.68     0.00    32.30     2.45     9.93    20.84
ECAOOHTSCBC0441041020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    23.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
TVA   TSCBC0641212020201 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.60     0.00     0.00     0.00
WUMSWITSDSO1332392020102 01                   82.     511.     71.2    11.45
 1.54     6.64    12.99     0.00    32.30     2.65     9.29    18.17
ECAOWVTSFBN0641042020102 01                  555.    3836.     78.9    10.22
 2.45    48.60    12.67     0.00    26.60    14.76    63.36    16.52
UPNY  TSFBN0131022020102 01                  210.    1497.     81.4    14.46
 2.45    25.30    16.91     0.00    32.20     6.76    32.06    21.42
VACANCTSGBC0641102020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.60     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.30     0.00     0.00     0.00
VACA  TSHBO0632102020202 01                  200.     964.     55.0    15.05
 1.54    15.99    16.59     0.00    32.30     6.46    22.45    23.29
ECAO  TSHBN0441041020102 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.60     0.00     0.00     0.00
ECAO  TSHBN0441042020102 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.60     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.20     0.00     0.00     0.00
MECS  TSJBO0412392020202 01                   20.     149.     85.0    10.02
 1.54     1.72    11.56     0.00    32.30     0.65     2.37    15.90
VACANCTSKBO0632102020202 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.30     0.00     0.00     0.00
SOU   TSKBC0641232020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAO  TSLBC0441181020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.00     0.00     0.00     0.00
ECAO  TSLBC0441182020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    23.00     0.00     0.00     0.00
MACE  TCOLC0141012050301 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    12.20     0.00     0.00     0.00
MECSMITSFSC0441392020101 01                 3000.   22339.     85.0     9.81
 2.51   275.14    12.32     0.00    27.00    81.00   356.14    15.94
ECAO  TSGSC0441201020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.60     0.00     0.00     0.00
TVA   TSLSC0641222020101 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.50     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    23.00     0.00     0.00     0.00
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Unscrubbed Coal_NOx            3           10581.   73647.     79.5    11.07
 2.39   991.47    13.46     0.00    27.08   286.50  1277.97    17.35
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 1.54     2.03    10.90     0.00    32.00     0.80     2.83    15.20
WUMSWITCOLU1311162040310 01                    44.     328.     85.0     8.44
 1.54     3.27     9.98     0.00    32.00     1.41     4.68    14.28
WUMSWITCOLU1311162050710 01                    22.     164.     85.0     8.44
 1.54     1.64     9.98     0.00    32.00     0.70     2.34    14.28
WUMSWITCOLU1331392020110 01                    56.     387.     78.9     9.36
 1.54     4.22    10.90     0.00    32.00     1.79     6.01    15.53
MANO  TCOLU0431192020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTCOLU0511282050710 01                    17.     127.     85.0     8.22
 1.54     1.24     9.76     0.00    32.00     0.54     1.78    14.06
MAPP  TCOLU0711312050710 01                    20.     149.     85.0     7.66
 1.54     1.37     9.20     0.00    25.80     0.52     1.89    12.67
MAPP  TCOLU0731311040110 01                    28.     208.     85.0     7.90
 1.54     1.97     9.44     0.00    32.00     0.90     2.87    13.74
MAPP  TCOLU1111261040110 01                    14.     104.     85.0     8.99
 1.54     1.10    10.53     0.00    22.40     0.31     1.41    13.54
MAPP  TCOLU1111271040210 01                    19.     141.     85.0     8.30
 1.54     1.39     9.84     0.00    32.00     0.61     2.00    14.13
MAPP  TCOLU1111261040310 01                     8.      60.     85.0     8.99
 1.54     0.63    10.53     0.00    32.00     0.26     0.88    14.83
MAPP  TCOLU1111252020110 01                    31.     231.     85.0     7.49
 1.54     2.09     9.03     0.00    32.00     0.99     3.08    13.33
MAPP  TCOLU1111262050710 01                   103.     767.     85.0     8.99
 1.54     8.08    10.53     0.00    32.00     3.30    11.38    14.83
MAPP  TCOLU1131261040110 01                    37.     231.     71.2     8.99
 1.54     2.43    10.53     0.00    22.40     0.83     3.26    14.13
MAPP  TCOLU1131262020110 01                    47.     325.     78.9     8.99
 1.54     3.42    10.53     0.00    32.00     1.50     4.93    15.17
MAPP  TCOLU1131272020110 01                    62.     387.     71.2     9.36
 1.54     4.22    10.90     0.00    32.00     1.98     6.20    16.03
MAPP  TCOLU1131252020210 01                    73.     455.     71.2     9.36
 1.54     4.96    10.90     0.00    32.00     2.34     7.30    16.03
MAPP  TCOLU1131262020310 01                   150.    1037.     78.9     8.99
 1.54    10.92    10.53     0.00    32.00     4.80    15.72    15.17
MAPPWITCOLU1311161010710 01                    24.     179.     85.0     8.44
 1.54     1.78     9.98     0.00    32.00     0.77     2.55    14.28
MAPPWITCOLU1311162020110 01                    63.     469.     85.0     8.22
 1.54     4.58     9.76     0.00    32.00     2.02     6.60    14.06
MAPPWITCOLU1311162040210 01                    49.     365.     85.0     8.44
 1.54     3.64     9.98     0.00    32.00     1.57     5.21    14.28
UPNY  TCOLU0111022050110 01                   117.     871.     85.0    12.47
 1.54    12.20    14.01     0.00    32.00     3.74    15.95    18.31
UPNY  TCOLU0111022020210 01                    44.     328.     85.0    11.31
 1.54     4.21    12.85     0.00    32.00     1.41     5.62    17.15
UPNY  TCOLU0111022050210 01                    82.     611.     85.0    12.47
 1.54     8.55    14.01     0.00    32.00     2.62    11.18    18.31
UPNY  TCOLU0131022020110 01                    55.     309.     64.2    15.04
 1.54     5.13    16.58     0.00    32.00     1.76     6.89    22.27
NENG  TCOLU0911012050710 01                    14.     104.     85.0    16.44
 1.54     1.87    17.98     0.00    22.40     0.31     2.19    20.99
FRCCFLTCOLU1531132020110 01                    92.     685.     85.0    12.27
 1.54     9.46    13.81     0.00    32.00     2.94    12.40    18.10
VACA  TCOLU0631041050710 01                    74.     464.     71.6    11.51
 1.54     6.05    13.05     0.00    11.70     0.87     6.92    14.91
VACA  TCOLU0631102050710 01                    55.     410.     85.0    11.83
 1.54     5.47    13.37     0.00    11.70     0.64     6.12    14.94
VACANCTCOLU0631102020110 01                    98.     614.     71.6    13.67
 1.54     9.34    15.21     0.00    32.00     3.14    12.48    20.31
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.689
Total Annual Costs
Year: 2020

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ECAO  TOLBU0632051020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01                  145.     601.     47.3    10.44
 1.54     7.20    11.98     0.00    32.00     4.64    11.84    19.70
ECAO  TOLBU0632192020210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOMDTOLBU0231082020110 01                   86.     412.     54.6    11.75
 1.54     5.47    13.29     0.00    32.00     2.75     8.22    19.97
ECAOOHTOLBU0432142020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.30     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01                  115.     550.     54.6    15.03
 1.54     9.11    16.57     0.00    32.00     3.68    12.79    23.25
MACW  TOLBU0232032050110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01                   14.     104.     85.0     8.44
 1.54     1.04     9.98     0.00    32.00     0.45     1.49    14.28
WUMSWITOLBU1312162020210 01                   24.     179.     85.0    10.91
 1.54     2.23    12.45     0.00    32.00     0.77     2.99    16.75
MANO  TOLBU0432192010210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTOLBU0532281010110 01                   49.     306.     71.2     8.71
 1.54     3.13    10.25     0.00    32.00     1.57     4.70    15.38
MAPP  TOLBU1141252020110 01                  130.     898.     78.9     9.45
 1.54     9.88    10.99     0.00    32.00     4.16    14.04    15.62
MAPPMOTOLBU0512282020110 01                   21.     156.     85.0     8.71
 1.54     1.60    10.25     0.00    32.00     0.67     2.27    14.55
MAPPMOTOLBU0532281010110 01                   97.     605.     71.2     8.86
 1.54     6.29    10.40     0.00    32.00     3.10     9.40    15.53
VACANCTOLBU0632101020210 01                   97.     206.     24.2    14.82
 1.54     3.36    16.36     0.00    32.00     3.10     6.47    31.47
VACANCTOLBU0632102020110 01                   79.     442.     63.9    13.99
 1.54     6.86    15.53     0.00    32.00     2.53     9.39    21.25
VACAVATOLBU0332092020110 01                  100.     560.     63.9    14.92
 1.54     9.21    16.46     0.00    32.00     3.20    12.41    22.18
VACAVATOLBU0332092020210 01                   71.     340.     54.6    14.94
 1.54     5.60    16.48     0.00    32.00     2.27     7.87    23.17
SPPN  TOLBU1732282020110 01                  144.     995.     78.9     9.45
 1.54    10.93    10.99     0.00    32.00     4.61    15.54    15.62
SPPN  TOLBU1742282020110 01                  148.    1102.     85.0     8.60
 1.54    11.18    10.14     0.00    32.00     4.74    15.92    14.44
SPPNMOTOLBU0511281020110 01                   84.     625.     85.0     8.22
 1.54     6.11     9.76     0.00    32.00     2.69     8.79    14.06
SPPNMOTOLBU0531281010110 01                   53.     297.     63.9     8.43
 1.54     2.96     9.97     0.00    32.00     1.70     4.65    15.69
SPPNMOTOLBU0531281020110 01                   96.     599.     71.2     8.27
 1.54     5.88     9.81     0.00    32.00     3.07     8.95    14.94
SPPNMOTOLBU0531282020110 01                   51.     352.     78.9     8.27
 1.54     3.46     9.81     0.00    32.00     1.63     5.09    14.44
SPPNMOTOLBU0532281010110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
RMPA  TOLSU0812321020110 01                   15.     112.     85.0     7.69
 1.54     1.03     9.23     0.00    26.40     0.40     1.43    12.78
ECAO  TRRBU0432042020110 01                  129.     617.     54.6    13.36
 1.54     9.20    14.90     0.00    32.00     4.13    13.33    21.58
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.690
Total Annual Costs
Year: 2020

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MECS | TSABU0441391020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAOOH | TSABU0441051010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAOOH | TSABU0441051020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ERCTTX | TSABU2341292020210 01 | 632. | 4706. | 85.0 | 8.26 | 1.54 | 46.14 | 9.80 | 0.00 | 22.40 | 14.16 | 60.29 | 12.81 |
| MACWPA | TSABU0241032020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSABU0441182020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 |
| MANOMOT | SABU0541252020110 01 | 1158. | 7709. | 76.0 | 10.03 | 1.54 | 89.16 | 11.57 | 0.00 | 26.40 | 30.57 | 119.73 | 15.53 |
| MANOMOT | SABU0542252020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSABU1141282020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 23.70 | 0.00 | 0.00 | 0.00 |
| MAPP | TSABU1141282010210 01 | 135. | 933. | 78.9 | 8.38 | 1.54 | 9.26 | 9.92 | 0.00 | 32.00 | 4.32 | 13.58 | 14.55 |
| MAPP | TSABU1142282020110 01 | 371. | 2763. | 85.0 | 8.48 | 1.54 | 27.67 | 10.02 | 0.00 | 26.40 | 9.79 | 37.47 | 13.56 |
| DSNYNY | TSABU0141012020110 01 | 541. | 3739. | 78.9 | 16.10 | 1.54 | 65.94 | 17.64 | 0.00 | 25.60 | 13.85 | 79.79 | 21.34 |
| DSNYNY | TSABU0142012020110 01 | 197. | 1362. | 78.9 | 17.14 | 1.54 | 25.44 | 18.68 | 0.00 | 26.40 | 5.20 | 30.64 | 22.50 |
| NENGCTT | SABU3241012020110 01 | 104. | 776. | 85.0 | 15.24 | 1.54 | 13.02 | 16.78 | 0.00 | 26.40 | 2.75 | 15.77 | 20.32 |
| VACANCT | SABU0641102020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 |
| TVA | TSABU0641202020310 01 | 1206. | 8980. | 85.0 | 9.42 | 1.54 | 98.45 | 10.96 | 0.00 | 32.00 | 38.59 | 137.04 | 15.26 |
| SOU | TSABU0641112020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.80 | 0.00 | 0.00 | 0.00 |
| SOU ALT | SABU0641231020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 |
| SOU ALT | SABU0641232020210 01 | 669. | 4982. | 85.0 | 10.80 | 1.54 | 61.47 | 12.34 | 0.00 | 22.40 | 14.99 | 76.46 | 15.35 |
| SOU MST | SABU1641242020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| SOU MST | SABU1641242020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 |
| RMPA | TSABU0841341020310 01 | 106. | 789. | 85.0 | 6.48 | 1.54 | 6.33 | 8.02 | 0.00 | 32.00 | 3.39 | 9.73 | 12.32 |
| RMPA | TSABU0841342020310 01 | 208. | 1549. | 85.0 | 6.24 | 1.54 | 12.04 | 7.78 | 0.00 | 22.40 | 4.66 | 16.70 | 10.78 |

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NWPE  TSABU0832332020110 01                    70.     521.     85.0     5.77
 1.54     3.81     7.31     0.00    32.00     2.24     6.05    11.60
NWPE  TSABU0841332020110 01                   105.     782.     85.0     5.41
 1.54     5.43     6.95     0.00    32.00     3.36     8.79    11.24
NWPE  TSABU0841352020310 01                   258.    1921.     85.0     5.67
 1.54    13.84     7.21     0.00    22.40     5.78    19.62    10.21
MECS  TSASU0441392020110 01                  1260.    9382.     85.0    10.50
 1.54   112.96    12.04     0.00    22.40    28.22   141.19    15.05
ERCTTXTSASU1941291020310 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    24.60     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    24.40     0.00     0.00     0.00
MANO  TSASU0441202020110 01                   169.    1054.     71.2    11.86
 1.54    14.12    13.40     0.00    32.00     5.41    19.53    18.53
MAPPWITSASU1331162020110 01                    87.     543.     71.2     8.41
 1.54     5.40     9.95     0.00    32.00     2.78     8.18    15.08
MAPPWITSASU1332162020110 01                    57.     319.     63.9     8.90
 1.54     3.33    10.44     0.00    32.00     1.82     5.15    16.16
ENTG  TSASU1041292020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
ENTG  TSASU1042292020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
SPPS  TSASU1041292020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
SPPS  TSASU3641282020110 01                  3838.   28579.     85.0     8.23
 1.54   279.13     9.77     0.00    23.00    88.27   367.40    12.86
SPPSTXTSASU2341292020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    24.40     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01                   346.    2576.     85.0    11.71
 1.54    34.14    13.25     0.00    26.40     9.13    43.27    16.80
SPPSTXTSASU3541292020310 01                  1800.   13403.     85.0    11.56
 1.54   175.55    13.10     0.00    22.40    40.32   215.87    16.11
PNW ORTSASU0842372020110 01                   508.    3783.     85.0     9.29
 1.54    40.95    10.83     0.00    22.40    11.38    52.33    13.83
RMPA  TSASU0832342020310 01                    49.     365.     85.0     8.57
 1.54     3.69    10.11     0.00    32.00     1.57     5.26    14.41
RMPA  TSASU0841342020310 01                  1155.    8600.     85.0     8.11
 1.54    82.99     9.65     0.00    24.70    28.53   111.52    12.97
NWPE  TSASU0742322020110 01                   156.    1162.     85.0     6.09
 1.54     8.87     7.63     0.00    26.40     4.12    12.98    11.18
NWPE  TSASU0841322020110 01                   106.     789.     85.0     5.87
 1.54     5.84     7.41     0.00    32.00     3.39     9.24    11.70
NWPE  TSASU0842322020110 01                   336.    2502.     85.0     5.96
 1.54    18.75     7.50     0.00    32.00    10.75    29.50    11.79
MECS  TSBBU0441392020110 01                   500.    3723.     85.0     8.23
 1.54    36.37     9.77     0.00    32.00    16.00    52.37    14.07
ECAO  TSBBU0241041020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ECAO  TSBBU0632061020110 01                   141.     675.     54.6    12.71
 1.54     9.62    14.25     0.00    32.00     4.51    14.13    20.94
ECAO  TSBBU0632062020110 01                    72.     345.     54.6    13.21
 1.54     5.08    14.75     0.00    32.00     2.30     7.39    21.44
ECAO  TSBBU0641062020110 01                   116.     802.     78.9    10.67
 1.54     9.79    12.21     0.00    32.00     3.71    13.50    16.84
ECAOINTSBBU0441182020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.691
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSBBU0431042020110 01 | 188. | 1299. | 78.9 | 11.10 | 1.54 | 16.43 | 12.64 | 0.00 | 32.00 | 6.02 | 22.44 |
| ECAOOHTSBBU0441041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441042020110 01 | 633. | 4375. | 78.9 | 10.27 | 1.54 | 51.66 | 11.81 | 0.00 | 30.10 | 19.05 | 70.72 |
| MANOILTSBBU0441181010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 28.50 | 0.00 | 0.00 |
| MAPP TSBBU1112271020710 01 | 23. | 171. | 85.0 | 9.65 | 1.54 | 1.92 | 11.19 | 0.00 | 32.00 | 0.74 | 2.65 |
| MAPP TSBBU1112272040210 01 | 36. | 268. | 85.0 | 11.70 | 1.54 | 3.55 | 13.24 | 0.00 | 32.00 | 1.15 | 4.70 |
| MAPP TSBBU1131262020110 01 | 29. | 200. | 78.9 | 8.61 | 1.54 | 2.03 | 10.15 | 0.00 | 26.40 | 0.77 | 2.80 |
| MAPP TSBBU1131262020210 01 | 60. | 374. | 71.2 | 9.08 | 1.54 | 3.98 | 10.62 | 0.00 | 26.40 | 1.58 | 5.56 |
| MAPP TSBBU1132271040110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 |
| MAPPNETSBBU1432282020210 01 | 85. | 633. | 85.0 | 8.93 | 1.54 | 6.63 | 10.47 | 0.00 | 26.40 | 2.24 | 8.87 |
| MAPPNETSBBU1441282010310 01 | 120. | 894. | 85.0 | 8.31 | 1.54 | 8.80 | 9.85 | 0.00 | 32.00 | 3.84 | 12.64 |
| MAPPNETSBBU1442282010310 01 | 105. | 782. | 85.0 | 8.94 | 1.54 | 8.20 | 10.48 | 0.00 | 26.40 | 2.77 | 10.97 |
| VACANCTSBBU0631102020110 01 | 78. | 489. | 71.6 | 13.61 | 1.54 | 7.41 | 15.15 | 0.00 | 32.00 | 2.50 | 9.91 |
| VACANCTSBBU0641102020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.20 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 | 106. | 664. | 71.6 | 13.60 | 1.54 | 10.06 | 15.14 | 0.00 | 32.00 | 3.39 | 13.45 |
| TVA TSBBU0641212020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 |
| SOU TSBBU0632112020110 01 | 107. | 227. | 24.2 | 14.55 | 1.54 | 3.65 | 16.09 | 0.00 | 32.00 | 3.42 | 7.07 |
| SOU TSBBU0641112020110 01 | 282. | 1350. | 54.6 | 13.28 | 1.54 | 20.01 | 14.82 | 0.00 | 26.20 | 7.39 | 27.39 |
| SOU TSBBU0641242020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 | 534. | 3976. | 85.0 | 12.04 | 1.54 | 53.99 | 13.58 | 0.00 | 32.00 | 17.09 | 71.07 |
| SOU MSTSBBU1641241020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 |
| SOU MSTSBBU1641242020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 |
| AZNM TSBBU0841361020310 01 | 156. | 1162. | 85.0 | 7.75 | 1.54 | 10.79 | 9.29 | 0.00 | 32.00 | 4.99 | 15.79 |
| AZNM TSBBU0841362020210 01 | 260. | 1936. | 85.0 | 7.89 | 1.54 | 18.26 | 9.43 | 0.00 | 22.40 | 5.82 | 24.08 |

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RMPA  TSBBU0812341020710 01                    48.     357.     85.0     7.80
 1.54     3.34     9.34     0.00    32.00     1.54     4.87    13.63
NWPE  TSBBU0841332020110 01                   425.    3165.     85.0     4.99
 1.54    20.68     6.53     0.00    26.40    11.22    31.90    10.08
ERCTTXTSBLU2241302020110 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MAPPSDTSBLU0742261010110 02                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MECS  TSBSU0441392020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.20     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01                   848.    6315.     85.0    11.50
 1.54    82.37    13.04     0.00    22.40    19.00   101.37    16.05
MANO  TSBSU0432172010110 01                   100.     560.     63.9    11.73
 1.54     7.43    13.27     0.00    32.00     3.20    10.63    18.99
MANO  TSBSU0441172020110 01                  2672.   19129.     81.7     9.86
 1.54   218.06    11.40     0.00    32.00    85.50   303.56    15.87
MANO  TSBSU0441172020210 01                   579.    4311.     85.0     9.81
 1.54    48.94    11.35     0.00    32.00    18.53    67.47    15.65
MAPPNETSBSU1432282020110 01                    76.     525.     78.9     9.53
 1.54     5.81    11.07     0.00    32.00     2.43     8.25    15.70
MAPPNETSBSU1432282020210 01                   172.    1281.     85.0     9.03
 1.54    13.54    10.57     0.00    22.40     3.85    17.39    13.58
MAPPNETSBSU1441282020110 01                   585.    4356.     85.0     8.40
 1.54    43.28     9.94     0.00    22.40    13.10    56.39    12.94
MAPPNETSBSU1441282020210 01                   700.    5212.     85.0     7.70
 1.54    48.18     9.24     0.00    22.40    15.68    63.86    12.25
MAPPNETSBSU1442282020110 01                   569.    4237.     85.0     8.96
 1.54    44.47    10.50     0.00    29.90    17.01    61.48    14.51
MAPPNETSBSU1442282020510 01                   665.    4952.     85.0     8.77
 1.54    51.04    10.31     0.00    22.40    14.90    65.94    13.32
SPPNMOTSBSU0542282020110 01                   161.    1199.     85.0     8.68
 1.54    12.25    10.22     0.00    32.00     5.15    17.40    14.52
ECAOINTSCBU0431181020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOINTSCBU0432181020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ECAOOHTSCBU0441041020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
MACE  TSCBU0131032020310 01                    80.     499.     71.2    14.90
 1.54     8.20    16.44     0.00    32.00     2.56    10.76    21.57
MACEDETSCBU0231032020110 01                   178.     996.     63.9    14.43
 1.54    15.90    15.97     0.00    32.00     5.70    21.60    21.69
MACW  TSCBU0241032020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MAPP  TSCBU1131272010110 01                    80.     553.     78.9     9.02
 1.54     5.84    10.56     0.00    32.00     2.56     8.40    15.19
MAPP  TSCBU1131252020110 01                    34.     212.     71.2     9.36
 1.54     2.31    10.90     0.00    32.00     1.09     3.40    16.03
MAPP  TSCBU1132252020210 01                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01                   362.    2037.     64.2    15.04
 1.54    33.78    16.58     0.00    32.00    11.58    45.36    22.27
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.692
Total Annual Costs
Year: 2020

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MAPPWITSCSU1342162020210 01                    377.    2807.     85.0     9.01
 1.54    29.61    10.55     0.00    22.40     8.44    38.05    13.55
MECS  TSDBU0441392020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACSMDTSDBU0241081020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.50     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01                    584.    4351.     85.0     8.32
 1.54    42.90     9.86     0.00    32.00    18.70    61.60    14.16
MANOILTSDBU0441191020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MANOILTSDBU0441192020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01                   2300.   15896.     78.9     9.27
 1.54   171.87    10.81     0.00    26.40    60.72   232.59    14.63
FRCCFLTSDBU1541131020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    22.40     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.90     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01                    218.    1623.     85.0    12.20
 1.54    22.31    13.74     0.00    22.40     4.88    27.19    16.75
VACANCTSDBU0641102020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.50     0.00     0.00     0.00
TVA   TSDBU0641222020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01                    642.    3073.     54.6    12.43
 1.54    42.94    13.97     0.00    32.00    20.54    63.48    20.66
WUMSWITSDSU1331392020110 01                     87.     592.     77.6    11.07
 1.54     7.46    12.61     0.00    32.00     2.78    10.24    17.31
WUMSWITSDSU1332392020110 01                    183.     876.     54.6    12.76
 1.54    12.53    14.30     0.00    32.00     5.86    18.38    20.99
WUMSWITSDSU1341392010210 01                    113.     781.     78.9    11.10
 1.54     9.87    12.64     0.00    32.00     3.62    13.48    17.27
WUMSWITSDSU1342392010210 01                    113.     705.     71.2    11.46
 1.54     9.16    13.00     0.00    32.00     3.62    12.78    18.13
MAPP  TSDSU1132252020110 01                     30.     187.     71.2    11.46
 1.54     2.43    13.00     0.00    26.40     0.79     3.22    17.23
MAPP  TSDSU1132252020210 01                     88.     549.     71.2    10.92
 1.54     6.84    12.46     0.00    32.00     2.82     9.65    17.59
MECS  TSEBU0441392020110 01                    320.    2383.     85.0     8.86
 1.54    24.77    10.40     0.00    32.00    10.24    35.01    14.69
ECAOOHTSEBU0441142020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACWPATSEBU0232032020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01                    211.    1458.     78.9     9.33
 1.54    15.85    10.87     0.00    26.40     5.57    21.43    14.69
NENG  TSEBU2841012020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.30     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.693
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] MMUS$ | Gener. [GWh] MMUS$ | C.F. [%] mill/kWh | Fuel mill/kWh | VOM mill/kWh | Total MMUS$ | Capital US$/kW/a | FOM US$/kW/a | Total mill/kWh | Variable Costs Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| | Fixed Costs | | | | Total Costs | | | | | |
| VACASCTSEBU0641102020110 01 | 250. | 1728. | 78.9 | 13.27 | 1.54 | 25.59 | 14.81 | 0.00 | 32.00 | 8.00 |
| VACASCTSEBU0641102020310 01 | 432. | 3217. | 85.0 | 12.79 | 1.54 | 46.09 | 14.33 | 0.00 | 32.00 | 13.82 |
| SOU ALTSEBU0632232020110 01 | 135. | 286. | 24.2 | 13.48 | 1.54 | 4.30 | 15.02 | 0.00 | 32.00 | 4.32 |
| SOU ALTSEBU0641232020210 01 | 857. | 6381. | 85.0 | 11.02 | 1.54 | 80.14 | 12.56 | 0.00 | 32.00 | 27.42 |
| SOU ALTSEBU0642232020110 01 | 224. | 1072. | 54.6 | 12.70 | 1.54 | 15.26 | 14.24 | 0.00 | 32.00 | 7.17 |
| MAPPNDTSELU0742312010110 02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 |
| MAPPNDTSELU0742312020110 02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 |
| ECAO TSESU0441171010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 |
| ECAO TSESU0441172020110 01 | 957. | 7126. | 85.0 | 10.16 | 1.54 | 83.36 | 11.70 | 0.00 | 26.70 | 25.55 |
| MANO TSESU0441172010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 |
| MANO TSESU0441172020310 01 | 187. | 1392. | 85.0 | 9.62 | 1.54 | 15.54 | 11.16 | 0.00 | 32.00 | 5.98 |
| MAPP TSESU1141261010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 |
| SOU TSESU0641111020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 |
| SOU TSESU0641112020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.60 | 0.00 |
| SOU TSESU0641112020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 |
| SPPN TSESU1741282020110 01 | 235. | 1750. | 85.0 | 8.42 | 1.54 | 17.43 | 9.96 | 0.00 | 22.40 | 5.26 |
| ECAO TSFBU0431142020210 01 | 252. | 1572. | 71.2 | 13.29 | 1.54 | 23.30 | 14.83 | 0.00 | 32.00 | 8.06 |
| ECAO TSFBU0432142020110 01 | 95. | 455. | 54.6 | 14.75 | 1.54 | 7.41 | 16.29 | 0.00 | 32.00 | 3.04 |
| ECAO TSFBU0432142020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 |
| ECAO TSFBU0441142020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 |
| ECAOINTSFBU0441201010110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 |
| ECAOKYTSFBU0641201020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 |
| ECAOKYTSFBU0641202020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 |
| ECAOWVTSFBU0641041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 |

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ECAOWVTSFBU0641042020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    29.20     0.00     0.00     0.00
UPNY  TSFBU0131022020210 01                  266.    1838.     78.9    14.73
 1.54    29.91    16.27     0.00    32.00     8.51    38.43    20.90
NENG  TSFBU2832012020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01                 1541.    7856.     58.2    13.17
 1.54   115.58    14.71     0.00    29.70    45.77   161.34    20.54
SOU   TSFBU0642112020110 01                  320.     678.     24.2    14.88
 1.54    11.13    16.42     0.00    32.00    10.24    21.37    31.52
SPPN  TSFBU1742282020110 01                  135.    1005.     85.0     8.87
 1.54    10.47    10.41     0.00    26.40     3.56    14.03    13.96
ECAO  TSFSU0441202020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.60     0.00     0.00     0.00
MECSMITSGBU0431392020110 01                  190.    1415.     85.0     9.04
 1.54    14.97    10.58     0.00    32.00     6.08    21.05    14.88
MECSMITSGBU0432391050210 01                   27.     129.     54.6    11.49
 1.54     1.68    13.03     0.00    26.40     0.71     2.40    18.55
MECSMITSGBU0441392020110 01                  945.    7037.     85.0     8.65
 1.54    71.68    10.19     0.00    32.00    30.24   101.92    14.48
ECAOOHTSGBU0441141010110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
ECAOOHTSGBU0441142020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    27.40     0.00     0.00     0.00
MACS  TSGBU0241082020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
WUMSWITSGBU1231392020110 01                  166.    1035.     71.2     9.29
 1.54    11.22    10.83     0.00    32.00     5.31    16.53    15.96
WUMSWITSGBU1232392020310 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MANOILTSGBU0431192020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOILTSGBU0432192020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MANOMOTSGBU0511271040310 01                   14.     104.     85.0     9.04
 1.54     1.10    10.58     0.00    32.00     0.45     1.55    14.88
MANOMOTSGBU0511272020710 01                    2.      15.     85.0     9.02
 1.54     0.16    10.56     0.00    32.00     0.06     0.22    14.86
MANOMOTSGBU0531272040310 01                   57.     394.     78.9     9.04
 1.54     4.17    10.58     0.00    32.00     1.82     5.99    15.21
MAPP  TSGBU1132271010110 01                   76.     425.     63.9     9.78
 1.54     4.81    11.32     0.00    26.40     2.01     6.82    16.04
MAPP  TSGBU1132272020110 01                   39.     218.     63.9    10.07
 1.54     2.53    11.61     0.00    32.00     1.25     3.78    17.33
MAPP  TSGBU1132272020210 01                   78.     436.     63.9    10.11
 1.54     5.08    11.65     0.00    29.40     2.29     7.38    16.91
MAPP  TSGBU1141272020210 01                  142.     981.     78.9     9.18
 1.54    10.52    10.72     0.00    32.00     4.54    15.07    15.35
UPNY  TSGBU0141022020210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01                  526.    3635.     78.9    13.20
 1.54    53.59    14.74     0.00    32.00    16.83    70.42    19.37
VACANCTSGBU0642101020110 01                    0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.694
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSGBU0642102020110 01 | 142. | 890. | 71.6 | 14.10 | 1.54 | 13.92 | 15.64 | 0.00 | 32.00 | 4.54 | 18.47 | 20.74 |
| TVA TSGBU0641222020110 01 | 222. | 1653. | 85.0 | 11.38 | 1.54 | 21.35 | 12.92 | 0.00 | 32.00 | 7.10 | 28.45 | 17.21 |
| TVA TSGBU0642222020110 01 | 444. | 3306. | 85.0 | 11.69 | 1.54 | 43.75 | 13.23 | 0.00 | 32.00 | 14.21 | 57.96 | 17.53 |
| SPPNMOTSGBU0511271020710 01 | 6. | 45. | 85.0 | 8.30 | 1.54 | 0.44 | 9.84 | 0.00 | 32.00 | 0.19 | 0.63 | 14.13 |
| ECAO TSGSU0441201020210 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 26.40 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441042020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.80 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441182020110 01 | 634. | 4382. | 78.9 | 10.45 | 1.54 | 52.54 | 11.99 | 0.00 | 28.30 | 17.94 | 70.48 | 16.09 |
| ECAO TSHBU0441042020310 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0641041020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0641042020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0641182020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 27.40 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0642181020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0642182020210 01 | 108. | 674. | 71.2 | 11.47 | 1.54 | 8.76 | 13.01 | 0.00 | 32.00 | 3.46 | 12.22 | 18.14 |
| MACW TSHBU0241412020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 29.20 | 0.00 | 0.00 | 0.00 |
| WUMSWITSHBU1332162010110 01 | 235. | 1125. | 54.6 | 9.63 | 1.54 | 12.56 | 11.17 | 0.00 | 32.00 | 7.52 | 20.08 | 17.85 |
| WUMSWITSHBU1332162020110 01 | 98. | 548. | 63.9 | 9.83 | 1.54 | 6.23 | 11.37 | 0.00 | 32.00 | 3.14 | 9.37 | 17.09 |
| MANOILTSHBU0441192020110 01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 32.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBU0631102020110 01 | 250. | 1728. | 78.9 | 13.19 | 1.54 | 25.45 | 14.73 | 0.00 | 32.00 | 8.00 | 33.45 | 19.36 |
| VACA TSHBU0641102020110 01 | 174. | 1296. | 85.0 | 12.80 | 1.54 | 18.57 | 14.34 | 0.00 | 32.00 | 5.57 | 24.14 | 18.63 |
| VACA TSHBU0641102020210 01 | 170. | 1175. | 78.9 | 13.14 | 1.54 | 17.25 | 14.68 | 0.00 | 32.00 | 5.44 | 22.69 | 19.31 |
| SOU TSHBU0632222020210 01 | 80. | 499. | 71.2 | 12.30 | 1.54 | 6.90 | 13.84 | 0.00 | 26.40 | 2.11 | 9.02 | 18.07 |
| WUMS TSHSU0432392020210 01 | 258. | 1235. | 54.6 | 12.27 | 1.54 | 17.05 | 13.81 | 0.00 | 22.40 | 5.78 | 22.83 | 18.49 |
| MECS TSIBU0432392020110 01 | 53. | 395. | 85.0 | 9.87 | 1.54 | 4.50 | 11.41 | 0.00 | 32.00 | 1.70 | 6.20 | 15.71 |

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MECS  TSIBU0441392020110 01                    103.     767.     85.0     9.25
 1.54     8.28    10.79     0.00    26.40     2.72    11.00    14.34
MECS  TSIBU0442392020110 01                    236.    1757.     85.0    10.48
 1.54    21.13    12.02     0.00    32.00     7.55    28.68    16.32
ECAO  TSISU0441171010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MAPP  TSISU1132262020110 01                    242.    1673.     78.9    11.06
 1.54    21.07    12.60     0.00    32.00     7.74    28.82    17.23
MAPP  TSISU1132262020310 01                    138.     861.     71.2    10.52
 1.54    10.38    12.06     0.00    32.00     4.42    14.80    17.19
MAPP  TSISU1142262020110 01                    454.    3138.     78.9    10.50
 1.54    37.77    12.04     0.00    32.00    14.53    52.30    16.67
MAPPWITSISU1341392020110 01                    377.    2606.     78.9     9.69
 1.54    29.25    11.23     0.00    26.40     9.95    39.20    15.05
ENTGMOTSISU0541271010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.60     0.00     0.00     0.00
ECAO  TSJBU0441051020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01                    560.    4170.     85.0     9.58
 1.54    46.37    11.12     0.00    32.00    17.92    64.29    15.42
WUMS  TSJBU0431392020110 01                    177.    1223.     78.9     9.52
 1.54    13.53    11.06     0.00    26.40     4.67    18.20    14.88
WUMS  TSJBU0431392020310 01                     37.     256.     78.9     9.36
 1.54     2.79    10.90     0.00    32.00     1.18     3.97    15.53
WUMS  TSJBU0432392020310 01                    116.     802.     78.9     9.59
 1.54     8.92    11.13     0.00    32.00     3.71    12.63    15.76
MANO  TSJBU0432252020210 01                     96.     599.     71.2     9.65
 1.54     6.70    11.19     0.00    32.00     3.07     9.77    16.32
MANO  TSJBU0441252020110 01                    372.    2571.     78.9     8.99
 1.54    27.07    10.53     0.00    32.00    11.90    38.97    15.16
MANO  TSJBU0441252020210 01                    428.    2958.     78.9     9.49
 1.54    32.64    11.03     0.00    22.40     9.59    42.22    14.27
SPPNMOTSJBU0541281010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MECS  TSKBU0412391020710 01                     21.     156.     85.0    11.25
 1.54     2.00    12.79     0.00    32.00     0.67     2.67    17.09
MECS  TSKBU0412391050710 01                     15.     112.     85.0    10.80
 1.54     1.38    12.34     0.00    26.40     0.40     1.77    15.89
ECAO  TSKBU0441042020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    28.50     0.00     0.00     0.00
ECAOINTSKBU0432182020110 01                    161.    1004.     71.2    11.58
 1.54    13.18    13.12     0.00    32.00     5.15    18.33    18.25
ECAOINTSKBU0432182020210 01                     56.     349.     71.2    11.79
 1.54     4.65    13.33     0.00    32.00     1.79     6.45    18.46
WUMS  TSKBU0411391020710 01                     47.     350.     85.0     9.36
 1.54     3.82    10.90     0.00    29.50     1.39     5.20    14.87
MANO  TSKBU0441181010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
MANO  TSKBU0441182020110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    26.40     0.00     0.00     0.00
VACANCTSKBU0632102020210 01                    322.    1293.     45.8    15.44
 1.54    21.96    16.98     0.00    32.00    10.30    32.26    24.95
VACANCTSKBU0641102020210 01                    266.    1668.     71.6    13.53
 1.54    25.12    15.07     0.00    32.00     8.51    33.63    20.17
MAPP  TSKSU1141261010110 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    32.00     0.00     0.00     0.00
MECSMITSLBU0432152020110 01                    318.    1522.     54.6    13.52
 1.54    22.92    15.06     0.00    29.30     9.32    32.23    21.18
MECSMITSLBU0441152020110 01                    156.    1162.     85.0    12.05
 1.54    15.78    13.59     0.00    26.40     4.12    19.90    17.13
ECAO  TSLBU0231052020110 01                     98.     548.     63.9     9.50
 1.54     6.05    11.04     0.00    32.00     3.14     9.19    16.76
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Total Annual Costs

Year: 2020

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 0.00     0.00     0.00     0.00    19.60     1.27     1.27     0.00
MECS  STGAU0412   000000 00                    20.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.43     0.43     0.00
MECS  STGAU0421   000000 00                    44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.94     0.94     0.00
ECAO  STGAU0211   000000 00                    35.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.75     0.75     0.00
ECAO  STGAU0221   000000 00                    88.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.88     1.88     0.00
ECAO  STGAU0411   000000 00                     6.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     0.12     0.12     0.00
ECAO  STGAU0421   000000 00                   308.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     6.59     6.59     0.00
ECAO  STGAU0611   000000 00                    58.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.24     1.24     0.00
ERCTTXSTGAU2011   000000 00                    96.      81.      9.6    29.98
 2.57     2.62    32.55     0.00    21.40     2.05     4.68    58.05
ERCTTXSTGAU2021   000000 00                    78.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.67     1.67     0.00
ERCTTXSTGAU2211   000000 00                    12.      13.     12.0    29.98
 2.57     0.41    32.55     0.00    21.40     0.26     0.67    52.85
ERCTTXSTGAU2221   000000 00                    30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.64     0.64     0.00
ERCTTXSTGAU2511   000000 00                   144.     152.     12.0    29.98
 2.57     4.94    32.55     0.00    21.40     3.08     8.02    52.85
ERCTTXSTGAU2521   000000 00                   205.     216.     12.0    29.98
 2.57     7.04    32.55     0.00    21.40     4.39    11.42    52.85
ERCTTXSTGAU2711   000000 00                    11.      12.     12.0    29.98
 2.57     0.38    32.55     0.00    10.70     0.12     0.50    42.70
MACE  STGAU0111   000000 00                    26.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.56     0.56     0.00
MACE  STGAU0121   000000 00                    54.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.16     1.16     0.00
MACE  STGAU0211   000000 00                    12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.26     0.26     0.00
MACE  STGAU0221   000000 00                    60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.64     0.64     0.00
WUMS  STGAU0412   000000 00                    18.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.39     0.39     0.00
WUMSWISTGAU1311   000000 00                    73.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     1.52     1.52     0.00
WUMSWISTGAU1321   000000 00                    58.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.24     1.24     0.00
MANO  STGAU0411   000000 00                    37.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.79     0.79     0.00
MANO  STGAU0421   000000 00                   377.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     8.07     8.07     0.00
MANOMOSTGAU0511   000000 00                    70.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.50     1.50     0.00
MAPP  STGAU1111   000000 00                   151.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     3.23     3.23     0.00
MAPP  STGAU1112   000000 00                    20.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.43     0.43     0.00
MAPP  STGAU1121   000000 00                   159.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     3.40     3.40     0.00
MAPPMOSTGAU0511   000000 00                    34.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.73     0.73     0.00
MAPPNESTGAU1411   000000 00                    19.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.41     0.41     0.00
MAPPWISTGAU1311   000000 00                    29.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.62     0.62     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.696
Total Annual Costs
Year: 2020

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SPPS  STGAU3621   000000 00                    80.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.71     1.71     0.00
SPPSMSSTGAU1611   000000 00                    49.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.05     1.05     0.00
SPPSTXSTGAU2211   000000 00                    50.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.07     1.07     0.00
SPPSTXSTGAU2511   000000 00                    23.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.49     0.49     0.00
SPPSTXSTGAU2521   000000 00                    48.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.03     1.03     0.00
SPPSTXSTGAU3511   000000 00                    22.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.24     0.24     0.00
CALI  STGAU0811   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
CALI  STGAU0821   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
AZNM  STGAU0811   000000 00                    30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.64     0.64     0.00
AZNM  STGAU0821   000000 00                    76.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.63     1.63     0.00
RMPA  STGAU0811   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
RMPA  STGAU0821   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
NWPE  STGAU0822   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MECS  STHSU0411   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MECS  STHSU0421   000000 00                  1035.    1623.     17.9    29.28
 2.57    51.69    31.85     0.00    17.10    17.70    69.39    42.75
MECS  STHSU0422   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.60     0.00     0.00     0.00
ERCTTXSTHSU1821   000000 00                  2984.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.20    60.28    60.28     0.00
ERCTTXSTHSU2021   000000 00                   893.     941.     12.0    28.14
 2.57    28.90    30.71     0.00    20.60    18.39    47.29    50.25
ERCTTXSTHSU2221   000000 00                  3693.    3893.     12.0    27.69
 2.57   117.81    30.26     0.00    20.00    73.86   191.67    49.23
ERCTTXSTHSU2321   000000 00                   356.     375.     12.0    28.01
 2.57    11.48    30.58     0.00    19.70     7.01    18.49    49.27
ERCTTXSTHSU2421   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.20     0.00     0.00     0.00
ERCTTXSTHSU2521   000000 00                  2276.    2399.     12.0    27.73
 2.57    72.70    30.30     0.00    20.40    46.43   119.13    49.65
MACE  STHSU0112   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MACE  STHSU0121   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MACE  STHSU0211   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
MACE  STHSU0221   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.00     0.00     0.00
MACE  STHSU0222   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.00     0.00     0.00
MACW  STHSU0221   000000 00                  1592.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    31.36    31.36     0.00
MACS  STHSU0222   000000 00                   550.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    10.84    10.84     0.00
DSNY  STHSU0121   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
LILC  STHSU0121   000000 00                   640.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60    13.19    13.19     0.00
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Total Annual Costs

Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | Capacity | | Gener. | | C.F. | | Fuel | | | |
| VOM | | | Total | | | Capital | | FOM | | | Total | | | | | Total | | | | | | | |
| Unit | Name | | | | | | | | | | [MW] | | | | | [GWh] | | [%] | | mill/kWh | | mill/kWh | |
| | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | MMUS$ | | | | | MMUS$ | | mill/kWh | | | | | |
| NENG | STHSU0122 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| NENG | STHSU0921 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| NENG | STHSU0922 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| NENG | STHSU2821 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.30 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| NENG | STHSU2822 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.20 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| NENGCT | STHSU3221 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| NENGCT | STHSU3222 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| NENGNH | STHSU2922 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| FRCCFL | STHSU1511 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| FRCCFL | STHSU1521 | 000000 | 00 | | | | | | | | 705. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.00 | | | 14.80 | | | | | 14.80 | | 0.00 | | | | | |
| FRCCFL | STHSU1522 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| SOU | STHSU0621 | 000000 | 00 | | | | | | | | 79. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 1.69 | | | | | 1.69 | | 0.00 | | | | | |
| SOU | STHSU0622 | 000000 | 00 | | | | | | | | 40. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.86 | | | | | 0.86 | | 0.00 | | | | | |
| ENTGMS | STHSU1621 | 000000 | 00 | | | | | | | | 761. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 19.70 | | | 14.99 | | | | | 14.99 | | 0.00 | | | | | |
| ENTGTX | STHSU2721 | 000000 | 00 | | | | | | | | 485. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 15.70 | | | 7.61 | | | | | 7.61 | | 0.00 | | | | | |
| ENTGTX | STHSU3421 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.80 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| SPPN | STHSU1711 | 000000 | 00 | | | | | | | | 9. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.19 | | | | | 0.19 | | 0.00 | | | | | |
| SPPN | STHSU1712 | 000000 | 00 | | | | | | | | 38. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.50 | | | 0.78 | | | | | 0.78 | | 0.00 | | | | | |
| SPPN | STHSU1721 | 000000 | 00 | | | | | | | | 1104. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.20 | | | 23.40 | | | | | 23.40 | | 0.00 | | | | | |
| SPPN | STHSU1722 | 000000 | 00 | | | | | | | | 362. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 20.50 | | | 7.42 | | | | | 7.42 | | 0.00 | | | | | |
| CALI | STHSU0821 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| CALI | STHSU0822 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| RMPA | STHSU0812 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |
| RMPA | STHSU0822 | 000000 | 00 | | | | | | | | 0. | | | | | 0. | | N/A | | 0.00 | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 21.40 | | | 0.00 | | | | | 0.00 | | 0.00 | | | | | |

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ECAO  STLSU0222   000000 00                    44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.94     0.94     0.00
ECAO  STLSU0411   000000 00                    25.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.54     0.54     0.00
ECAO  STLSU0421   000000 00                   100.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.14     2.14     0.00
ERCTTXSTLSU1821   000000 00                  2829.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    58.84    58.84     0.00
ERCTTXSTLSU1822   000000 00                   352.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     7.53     7.53     0.00
ERCTTXSTLSU2011   000000 00                    16.      13.       9.0    29.98
 2.57     0.41    32.55     0.00    21.40     0.34     0.75    59.62
ERCTTXSTLSU2012   000000 00                    35.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.75     0.75     0.00
ERCTTXSTLSU2021   000000 00                   285.     225.       9.0    29.01
 2.57     7.12    31.58     0.00    20.70     5.90    13.02    57.77
ERCTTXSTLSU2022   000000 00                  1120.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.70    23.18    23.18     0.00
ERCTTXSTLSU2122   000000 00                  1066.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    21.00    21.00     0.00
ERCTTXSTLSU2212   000000 00                   126.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.70     2.70     0.00
ERCTTXSTLSU2221   000000 00                  4296.    3970.      10.5    28.63
 2.57   123.89    31.20     0.00    20.60    88.50   212.39    53.50
ERCTTXSTLSU2222   000000 00                  1942.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    40.39    40.39     0.00
ERCTTXSTLSU2321   000000 00                   405.     427.      12.0    28.29
 2.57    13.17    30.86     0.00    19.70     7.98    21.15    49.54
ERCTTXSTLSU2322   000000 00                   146.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     2.88     2.88     0.00
ERCTTXSTLSU2422   000000 00                    87.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.86     1.86     0.00
ERCTTXSTLSU2511   000000 00                    11.      12.      12.0    29.98
 2.57     0.38    32.55     0.00    21.40     0.24     0.61    52.85
ERCTTXSTLSU2512   000000 00                    75.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.60     1.60     0.00
ERCTTXSTLSU2521   000000 00                   726.     765.      12.0    29.55
 2.57    24.58    32.12     0.00    20.20    14.67    39.24    51.28
ERCTTXSTLSU2522   000000 00                   386.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.10     8.14     8.14     0.00
ERCTTXSTLSU3521   000000 00                   204.     215.      12.0    29.00
 2.57     6.79    31.57     0.00    19.70     4.02    10.81    50.26
ERCTTXSTLSU3522   000000 00                   111.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     2.19     2.19     0.00
MACE  STLSU0121   000000 00                  1214.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    25.98    25.98     0.00
MACE  STLSU0122   000000 00                   558.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    11.94    11.94     0.00
MACE  STLSU0221   000000 00                   493.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    10.55    10.55     0.00
MACE  STLSU0222   000000 00                   884.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.00    17.68    17.68     0.00
MACS  STLSU0221   000000 00                   612.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    15.70     9.61     9.61     0.00
MACS  STLSU0222   000000 00                  1492.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10    29.99    29.99     0.00
MANO  STLSU0412   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.24     0.24     0.00
MANO  STLSU0421   000000 00                  2866.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.00    54.45    54.45     0.00
MAPP  STLSU0711   000000 00                    18.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.39     0.39     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.698
Total Annual Costs
Year: 2020

| Unit Name | | Fixed Costs | | | | Total Costs | | | Variable Costs | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Capital | FOM | VOM | Total | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel mill/kWh | Total mill/kWh | | | | | | | |
| | | US$/kW/a | US$/kW/a | mill/kWh | MMUS$ | MMUS$ | MMUS$ | mill/kWh | | | | | | | | | |
| MAPP | STLSU0721 | 000000 00 | | | | 43. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.92 | 0.92 | 0.00 |
| MAPP | STLSU1111 | 000000 00 | | | | 71. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.52 | 1.52 | 0.00 |
| MAPP | STLSU1112 | 000000 00 | | | | 23. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 0.46 | 0.46 | 0.00 |
| MAPPNE | STLSU1412 | 000000 00 | | | | 72. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 1.54 | 1.54 | 0.00 |
| MAPPNE | STLSU1421 | 000000 00 | | | | 107. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 2.29 | 2.29 | 0.00 |
| MAPPNE | STLSU1422 | 000000 00 | | | | 54. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 1.06 | 1.06 | 0.00 |
| UPNY | STLSU0121 | 000000 00 | | | | 820. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.70 | 12.87 | 12.87 | 0.00 |
| DSNY | STLSU0121 | 000000 00 | | | | 2619. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 52.12 | 52.12 | 0.00 |
| NYC | STLSU0121 | 000000 00 | | | | 4747. | 1627. | 3.9 | 33.15 | 2.57 | 58.10 | 35.72 | 0.00 | 20.90 | 99.21 | 157.32 | 96.72 |
| NYC | STLSU0122 | 000000 00 | | | | 130. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 2.78 | 2.78 | 0.00 |
| LILC | STLSU0121 | 000000 00 | | | | 826. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.70 | 17.10 | 17.10 | 0.00 |
| NENG | STLSU0121 | 000000 00 | | | | 805. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 17.23 | 17.23 | 0.00 |
| NENG | STLSU0922 | 000000 00 | | | | 50. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 15.70 | 0.79 | 0.79 | 0.00 |
| NENG | STLSU2821 | 000000 00 | | | | 588. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 11.58 | 11.58 | 0.00 |
| NENGCT | STLSU3221 | 000000 00 | | | | 610. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.20 | 12.32 | 12.32 | 0.00 |
| NENGCT | STLSU3222 | 000000 00 | | | | 402. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 7.92 | 7.92 | 0.00 |
| FRCCFL | STLSU1511 | 000000 00 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1512 | 000000 00 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1521 | 000000 00 | | | | 6501. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.30 | 125.47 | 125.47 | 0.00 |
| FRCCFL | STLSU1522 | 000000 00 | | | | 694. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.90 | 14.50 | 14.50 | 0.00 |
| VACAVA | STLSU0321 | 000000 00 | | | | 818. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.70 | 16.11 | 16.11 | 0.00 |
| VACAVA | STLSU0322 | 000000 00 | | | | 929. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 18.58 | 18.58 | 0.00 |
| SOU MS | STLSU1621 | 000000 00 | | | | 193. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.40 | 4.13 | 4.13 | 0.00 |
| SOU MS | STLSU1622 | 000000 00 | | | | 264. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.30 | 5.36 | 5.36 | 0.00 |

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ENTG  STLSU1021   000000 00                    3566.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10    71.67    71.67     0.00
ENTG  STLSU1022   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.60     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00                    532.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70    10.48    10.48     0.00
SPPNMOSTLSU0512   000000 00                     16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.34     0.34     0.00
SPPNMOSTLSU0521   000000 00                     44.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    15.70     0.69     0.69     0.00
SPPS  STLSU0821   000000 00                    314.     331.     12.0    27.66
 2.57    10.01    30.23     0.00    21.40     6.72    16.73    50.53
SPPS  STLSU0822   000000 00                     71.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.52     1.52     0.00
SPPS  STLSU1011   000000 00                     37.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80     0.77     0.77     0.00
SPPS  STLSU1012   000000 00                    140.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10     2.81     2.81     0.00
SPPS  STLSU1021   000000 00                   1721.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.30    34.94    34.94     0.00
SPPS  STLSU1022   000000 00                    649.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.80    13.50    13.50     0.00
SPPS  STLSU3612   000000 00                     24.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.51     0.51     0.00
SPPS  STLSU3621   000000 00                   4755.    5013.     12.0    27.27
 2.57   149.60    29.84     0.00    20.10    95.58   245.17    48.91
SPPS  STLSU3622   000000 00                    805.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.30    17.15    17.15     0.00
SPPSMSSTLSU1612   000000 00                     30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.64     0.64     0.00
SPPSTXSTLSU2221   000000 00                   1219.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.00    24.38    24.38     0.00
SPPSTXSTLSU2222   000000 00                    127.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     2.72     2.72     0.00
SPPSTXSTLSU2521   000000 00                   1134.    1195.     12.0    27.82
 2.57    36.34    30.39     0.00    20.30    23.02    59.36    49.65
SPPSTXSTLSU2522   000000 00                    255.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     5.46     5.46     0.00
SPPSTXSTLSU3522   000000 00                     54.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     1.06     1.06     0.00
CALI  STLSU0821   000000 00                   5179.    1865.      4.1    29.94
 2.57    60.62    32.51     0.00    20.90   108.24   168.86    90.55
CALI  STLSU0822   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
PNW   STLSU0721   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    15.70     0.00     0.00     0.00
AZNM  STLSU0812   000000 00                     39.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.83     0.83     0.00
AZNM  STLSU0821   000000 00                   1054.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.10    22.24    22.24     0.00
AZNM  STLSU0822   000000 00                    815.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40    17.44    17.44     0.00
AZNMTXSTLSU2621   000000 00                    266.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     5.69     5.69     0.00
NWPE  STLSU0821   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    20.10     0.00     0.00     0.00
NWPE  STLSU0822   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.699
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Oil/Gas Steam | 5 | 90724. | 25363. | 3.2 | 28.54 | 2.57 | 788.98 | 31.11 | 0.00 | 20.20 | 1832.22 | 2621.19 | 103.35 |
| MACE STHSN0121 000000 00 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 |
| NENGCTSTHSN3221 000000 00 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.00 | 0.00 | 0.00 |
| SPPSTXSTLSC2512 000000 00 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.50 | 0.00 | 0.00 | 0.00 |
| CALI STLSC0811 000000 00 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.50 | 0.00 | 0.00 | 0.00 |
| CALI STLSC0821 000000 00 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.40 | 0.00 | 0.00 | 0.00 |
| CALI STLSN0812 000000 00 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.00 | 0.00 | 0.00 |
| CALI STLSN0821 000000 00 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.00 | 0.00 | 0.00 |
| CALI STLSN0822 000000 00 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTHSC1821 000000 00 | | 739. | 317. | 4.9 | 27.66 | 2.67 | 9.60 | 30.33 | 0.00 | 20.90 | 15.45 | 25.05 | 79.13 |
| ERCTTXSTHSC1921 000000 00 | | 750. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.90 | 15.67 | 15.67 | 0.00 |
| CALI STHSC0821 000000 00 | | 1057. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.20 | 22.42 | 22.42 | 0.00 |
| CALI STHSC0822 000000 00 | | 222. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.90 | 4.64 | 4.64 | 0.00 |
| ERCTTXSTHSO2521 000000 00 | | 116. | 122. | 12.0 | 27.36 | 3.02 | 3.72 | 30.38 | 0.00 | 20.00 | 2.32 | 6.04 | 49.35 |
| ERCTTXSTHSO3521 000000 00 | | 200. | 211. | 12.0 | 27.52 | 3.02 | 6.44 | 30.54 | 0.00 | 20.00 | 4.00 | 10.44 | 49.51 |
| ERCTTXSTLSO2021 000000 00 | | 940. | 991. | 12.0 | 28.35 | 3.02 | 31.08 | 31.37 | 0.00 | 21.60 | 20.30 | 51.39 | 51.86 |
| ERCTTXSTLSO2022 000000 00 | | 1083. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.00 | 22.74 | 22.74 | 0.00 |
| NENG STLSO0922 000000 00 | | 615. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 12.30 | 12.30 | 0.00 |
| NENG STGAO0111 000000 00 | | 7. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 21.60 | 0.15 | 0.15 | 0.00 |
| CALI STGAC0821 000000 00 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 22.50 | 0.00 | 0.00 | 0.00 |
| NENG STHSD2821 000000 00 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 0.00 | 0.00 | 0.00 |
| Oil/Gas Steam_Nox | 6 | 5729. | 1641. | 3.3 | 28.04 | 2.95 | 50.84 | 30.99 | 0.00 | 20.94 | 119.99 | 170.83 | 104.13 |

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|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | NUKE 00 | 7000000 00 | | | | 561. | 4369. | 88.9 | 4.42 | |
| 0.82 | 22.90 | 5.24 | 0.00 | 176.10 | | 98.79 | 121.69 | 27.85 | | |
| NENG | NUKE 00 | 8000000 00 | | | | 675. | 5196. | 87.9 | 4.13 | |
| 1.32 | 28.33 | 5.45 | 0.00 | 254.10 | | 171.52 | 199.84 | 38.46 | | |
| MAPP | NUKE 00 | 7000000 00 | | | | 529. | 4265. | 92.0 | 4.37 | |
| 0.59 | 21.16 | 4.96 | 0.00 | 95.60 | | 50.57 | 71.74 | 16.82 | | |
| MANO | NUKE 00 | 8000000 00 | | | | 1072. | 8508. | 90.6 | 4.07 | |
| 1.32 | 45.87 | 5.39 | 0.00 | 234.60 | | 251.49 | 297.36 | 34.95 | | |
| SPPN | NUKE 00 | 7000000 00 | | | | 1182. | 9752. | 94.2 | 3.96 | |
| 0.56 | 44.11 | 4.52 | 0.00 | 142.90 | | 168.91 | 213.02 | 21.84 | | |
| MACE | NUKE 00 | 7000000 00 | | | | 1155. | 9026. | 89.2 | 4.38 | |
| 0.98 | 48.36 | 5.36 | 0.00 | 191.50 | | 221.18 | 269.54 | 29.86 | | |
| MACE | NUKE 00 | 8000000 00 | | | | 1112. | 8831. | 90.7 | 4.24 | |
| 0.64 | 43.07 | 4.88 | 0.00 | 165.10 | | 183.59 | 226.66 | 25.67 | | |
| MACE | NUKE 00 | 8000000 00 | | | | 1109. | 8899. | 91.6 | 4.28 | |
| 0.64 | 43.80 | 4.92 | 0.00 | 165.10 | | 183.10 | 226.89 | 25.50 | | |
| VACA | NUKE 00 | 8000000 00 | | | | 701. | 5640. | 91.8 | 4.13 | |
| 0.51 | 26.15 | 4.64 | 0.00 | 137.70 | | 96.53 | 122.67 | 21.75 | | |
| VACA | NUKE 00 | 8000000 00 | | | | 854. | 6508. | 87.0 | 4.23 | |
| 0.66 | 31.80 | 4.89 | 0.00 | 147.10 | | 125.62 | 157.43 | 24.19 | | |
| VACA | NUKE 00 | 8000000 00 | | | | 854. | 6903. | 92.3 | 4.19 | |
| 0.66 | 33.47 | 4.85 | 0.00 | 147.10 | | 125.62 | 159.09 | 23.05 | | |
| CALI | NUKE 00 | 7000000 00 | | | | 1086. | 9079. | 95.4 | 4.01 | |
| 0.86 | 44.25 | 4.87 | 0.00 | 190.30 | | 206.67 | 250.92 | 27.64 | | |
| NENG | NUKE 00 | 7000000 00 | | | | 506. | 4131. | 93.2 | 4.11 | |
| 1.18 | 21.85 | 5.29 | 0.00 | 240.70 | | 121.79 | 143.65 | 34.77 | | |
| VACA | NUKE 00 | 8000000 00 | | | | 909. | 7138. | 89.6 | 4.09 | |
| 0.46 | 32.46 | 4.55 | 0.00 | 134.20 | | 121.99 | 154.45 | 21.64 | | |
| ENTG | NUKE 00 | 8000000 00 | | | | 1141. | 9483. | 94.9 | 4.28 | |
| 0.67 | 46.93 | 4.95 | 0.00 | 181.60 | | 207.21 | 254.13 | 26.80 | | |
| TVA | NUKE 00 | 7000000 00 | | | | 2429. | 18534. | 87.1 | 4.23 | |
| 0.32 | 84.42 | 4.55 | 0.00 | 109.50 | | 265.98 | 350.39 | 18.91 | | |
| TVA | NUKE 00 | 7000000 00 | | | | 1244. | 10350. | 95.0 | 4.23 | |
| 0.32 | 47.14 | 4.55 | 0.00 | 109.50 | | 136.22 | 183.36 | 17.72 | | |
| AZNM | NUKE 00 | 7000000 00 | | | | 1255. | 10272. | 93.4 | 4.32 | |
| 0.42 | 48.67 | 4.74 | 0.00 | 134.20 | | 168.42 | 217.09 | 21.13 | | |
| AZNM | NUKE 00 | 7000000 00 | | | | 1310. | 10334. | 90.1 | 4.26 | |
| 0.42 | 48.39 | 4.68 | 0.00 | 134.20 | | 175.80 | 224.19 | 21.69 | | |
| MACS | NUKE 00 | 9000000 00 | | | | 875. | 7033. | 91.8 | 4.41 | |
| 0.61 | 35.29 | 5.02 | 0.00 | 161.00 | | 140.88 | 176.17 | 25.05 | | |
| MACS | NUKE 00 | 9000000 00 | | | | 850. | 6751. | 90.7 | 4.42 | |
| 0.61 | 33.94 | 5.03 | 0.00 | 161.00 | | 136.85 | 170.79 | 25.30 | | |
| VACA | NUKE 00 | 7000000 00 | | | | 915. | 7654. | 95.5 | 4.07 | |
| 0.42 | 34.34 | 4.49 | 0.00 | 132.10 | | 120.87 | 155.21 | 20.28 | | |
| VACA | NUKE 00 | 7000000 00 | | | | 904. | 7387. | 93.3 | 4.25 | |
| 0.42 | 34.50 | 4.67 | 0.00 | 132.10 | | 119.42 | 153.92 | 20.84 | | |
| MANO | NUKE 00 | 7000000 00 | | | | 1182. | 10014. | 96.7 | 4.18 | |
| 0.51 | 46.96 | 4.69 | 0.00 | 141.60 | | 167.37 | 214.33 | 21.40 | | |
| MANO | NUKE 00 | 7000000 00 | | | | 1175. | 9929. | 96.5 | 4.18 | |
| 0.51 | 46.56 | 4.69 | 0.00 | 141.60 | | 166.38 | 212.94 | 21.45 | | |
| MANO | NUKE 00 | 7000000 00 | | | | 1255. | 10267. | 93.4 | 4.22 | |
| 0.50 | 48.48 | 4.72 | 0.00 | 138.40 | | 173.69 | 222.17 | 21.64 | | |
| MANO | NUKE 00 | 7000000 00 | | | | 1222. | 10139. | 94.7 | 4.14 | |
| 0.50 | 47.02 | 4.64 | 0.00 | 138.40 | | 169.12 | 216.15 | 21.32 | | |
| MANO | NUKE 00 | 7000000 00 | | | | 1128. | 9644. | 97.6 | 4.30 | |
| 0.78 | 48.97 | 5.08 | 0.00 | 162.50 | | 183.30 | 232.27 | 24.08 | | |
| MANO | NUKE 00 | 7000000 00 | | | | 1131. | 9318. | 94.0 | 4.35 | |
| 0.78 | 47.81 | 5.13 | 0.00 | 162.50 | | 183.79 | 231.60 | 24.85 | | |
| VACA | NUKE 00 | 7000000 00 | | | | 1140. | 9496. | 95.1 | 4.09 | |
| 0.47 | 43.34 | 4.56 | 0.00 | 133.40 | | 152.08 | 195.41 | 20.58 | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.700
Total Annual Costs
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ENTG  NUKE 00    7000000 00                    893.    6913.     88.4     4.50
 0.56    34.97     5.06     0.00   166.00   148.24   183.21    26.50
MANO  NUKE 00    7000000 00                    850.    6897.     92.6     4.52
 0.86    37.12     5.38     0.00   196.50   167.03   204.15    29.60
MANO  NUKE 00    7000000 00                    855.    6921.     92.4     4.44
 0.94    37.26     5.38     0.00   188.00   160.74   198.00    28.61
MANO  NUKE 00    7000000 00                    855.    6608.     88.2     4.45
 0.94    35.63     5.39     0.00   188.00   160.74   196.37    29.72
DSNY  NUKE 00    8000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCT  NUKE 00    7000000 00                   1241.    9745.     89.6     4.29
 0.52    46.89     4.81     0.00   131.80   163.56   210.45    21.60
MECS  NUKE 00    8000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    7000000 00                   1110.    8748.     90.0     5.22
 0.75    52.26     5.97     0.00   159.80   177.38   229.64    26.25
MAPP  NUKE 00    7000000 00                    597.    4634.     88.6     4.24
 0.70    22.91     4.94     0.00   109.60    65.43    88.34    19.06
MAPP  NUKE 00    7000000 00                    530.    4004.     86.2     4.36
 0.59    19.83     4.95     0.00   145.60    77.17    97.00    24.22
MAPP  NUKE 00    7000000 00                    571.    4291.     85.8     4.32
 1.20    23.69     5.52     0.00   232.50   132.76   156.45    36.46
MACE  NUKE 00    8000000 00                    605.    4218.     79.6     4.36
 1.32    23.96     5.68     0.00   254.60   154.03   177.99    42.20
MACE  NUKE 00    7000000 00                   1150.    9049.     89.8     4.34
 0.98    48.13     5.32     0.00   191.50   220.22   268.36    29.65
DSNY  NUKE 00    7000000 00                    967.    6131.     72.4     4.11
 1.25    32.85     5.36     0.00   237.60   229.76   262.60    42.83
UPNY  NUKE 00    8000000 00                    619.    4288.     79.1     4.36
 1.07    23.29     5.43     0.00   206.50   127.82   151.11    35.24
UPNY  NUKE 00    7000000 00                   1154.    9094.     90.0     4.36
 0.78    46.75     5.14     0.00   167.70   193.53   240.27    26.42
VACA  NUKE 00    8000000 00                    854.    5816.     77.7     4.20
 0.66    28.28     4.86     0.00   147.10   125.62   153.90    26.46
CALI  NUKE 00    7000000 00                   1096.    8391.     87.4     4.01
 0.86    40.90     4.87     0.00   190.30   208.57   249.47    29.73
PNW   NUKE 00    7000000 00                   1123.    8851.     90.0     4.09
 0.66    42.01     4.75     0.00   153.70   172.61   214.61    24.25
VACA  NUKE 00    8000000 00                    891.    6597.     84.5     4.09
 0.46    30.00     4.55     0.00   134.20   119.57   149.57    22.67
WUMS  NUKE 00    8000000 00                    512.    3777.     84.2     4.22
 0.98    19.65     5.20     0.00   195.70   100.20   119.85    31.73
WUMS  NUKE 00    8000000 00                    514.    3830.     85.1     4.27
 0.98    20.09     5.25     0.00   195.70   100.59   120.68    31.51
NENG  NUKE 00    8000000 00                    872.    6692.     87.6     4.12
 1.17    35.41     5.29     0.00   211.90   184.78   220.19    32.90
NENG  NUKE 00    8000000 00                   1157.    9120.     90.0     4.04
 1.23    48.11     5.27     0.00   208.10   240.77   288.88    31.68
ECAO  NUKE 00    8000000 00                   1017.    6517.     73.1     4.35
 1.14    35.79     5.49     0.00   206.80   210.32   246.11    37.77
ECAO  NUKE 00    8000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00                    851.    5868.     78.7     4.47
 0.65    30.02     5.12     0.00   150.80   128.33   158.35    26.98
SOU   NUKE 00    7000000 00                    860.    6777.     90.0     4.47
 0.65    34.67     5.12     0.00   150.80   129.69   164.36    24.25
AZNM  NUKE 00    7000000 00                   1259.    9926.     90.0     4.24
 0.42    46.24     4.66     0.00   134.20   168.96   215.19    21.68
VACA  NUKE 00    7000000 00                    940.    7148.     86.8     4.11
 0.53    33.17     4.64     0.00   149.90   140.91   174.07    24.35
ECAO  NUKE 00    7000000 00                   1238.    9759.     90.0     4.17
 0.60    46.52     4.77     0.00   159.60   197.58   244.11    25.01
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.701
Total Annual Costs
Year: 2020

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DSNY  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXNUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (b)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  NUC  0     (c)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  NUC  0     (a)                              0.       0.       N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.702
Total Annual Costs
Year: 2020

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MACS  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUC  0     (c)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Nuclear                          7           99594.  786799.     90.2     4.28
 0.65  3877.15     4.93     0.00   156.20 15556.93 19434.08    24.70

MECS  HYDRO00     000000 00                   158.    1013.     73.2     0.00
 0.00     0.00     0.00     0.00    15.40     2.43     2.43     2.40
ECAO  HYDRO00     000000 00                  1109.    2974.     30.6     0.00
 0.00     0.00     0.00     0.00    15.00    16.64    16.64     5.59
ERCT  HYDRO00     000000 00                   356.     796.     25.5     0.00
 0.00     0.00     0.00     0.00    15.50     5.52     5.52     6.93
MACE  HYDRO00     000000 00                   522.    4115.     90.0     0.00
 0.00     0.00     0.00     0.00    15.50     8.09     8.09     1.97
MACW  HYDRO00     000000 00                   649.    2144.     37.7     0.00
 0.00     0.00     0.00     0.00    14.90     9.67     9.67     4.51
MACS  HYDRO00     000000 00                    18.      59.     37.3     0.00
 0.00     0.00     0.00     0.00    15.50     0.28     0.28     4.74
WUMS  HYDRO00     000000 00                   354.    1683.     54.3     0.00
 0.00     0.00     0.00     0.00    15.40     5.45     5.45     3.24
MANO  HYDRO00     000000 00                   362.    1826.     57.6     0.00
 0.00     0.00     0.00     0.00    15.50     5.61     5.61     3.07
MAPP  HYDRO00     000000 00                  3204.    9989.     35.6     0.00
 0.00     0.00     0.00     0.00    15.40    49.34    49.34     4.94
UPNY  HYDRO00     000000 00                  5551.   25889.     53.2     0.00
 0.00     0.00     0.00     0.00    15.50    86.04    86.04     3.32
DSNY  HYDRO00     000000 00                   442.    2061.     53.2     0.00
 0.00     0.00     0.00     0.00    14.60     6.45     6.45     3.13
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.703
Total Annual Costs
Year: 2020

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 1.03     0.17    32.27     0.00    19.90     0.14     0.31    59.21
ERCTTXCC   2322   000000 00                  4495.   30688.     77.9    21.04
 1.03   677.21    22.07     0.00    13.90    62.48   739.69    24.10
ERCTTXCC   2513   000000 00                    22.      16.      8.4    26.77
 1.03     0.45    27.80     0.00    19.90     0.44     0.89    54.75
ERCTTXCC   2514   000000 00                     3.       1.      2.0    33.53
 1.03     0.02    34.56     0.00    19.90     0.06     0.08   150.72
ERCTTXCC   2523   000000 00                   103.      76.      8.4    26.77
 1.03     2.12    27.80     0.00    19.90     2.05     4.17    54.75
ERCTTXCC   2524   000000 00                    36.       6.      2.0    33.53
 1.03     0.21    34.56     0.00    19.90     0.72     0.93   150.72
ERCTTXCC   2722   000000 00                  8847.   50358.     65.0    21.03
 1.03  1110.77    22.06     0.00    13.90   122.97  1233.74    24.50
ERCTTXCC   3522   000000 00                  2623.   20773.     90.4    21.01
 1.03   457.90    22.04     0.00    13.90    36.46   494.36    23.80
ERCTTXCC   3523   000000 00                   258.     191.      8.4    31.24
 1.03     6.15    32.27     0.00    18.90     4.88    11.03    57.86
MACE  CC   0122   000000 00                  3085.   11803.     43.7    24.93
 1.03   306.41    25.96     0.00    13.90    42.88   349.30    29.59
MACE  CC   0123   000000 00                   762.     563.      8.4    33.51
 1.03    19.44    34.54     0.00    19.50    14.86    34.30    60.94
MACE  CC   0222   000000 00                  1287.    6226.     55.2    24.88
 1.03   161.32    25.91     0.00    13.90    17.89   179.21    28.79
MACE  CC   0224   000000 00                   224.      38.      2.0    37.07
 1.03     1.46    38.10     0.00    18.90     4.23     5.70   148.42
MACW  CC   0222   000000 00                  2689.   12917.     54.8    24.74
 1.03   332.82    25.77     0.00    13.90    37.38   370.20    28.66
MACS  CC   0222   000000 00                   142.     450.      36.2    27.44
 1.03    12.82    28.47     0.00    13.90     1.97    14.80    32.85
WUMSWICC   1322   000000 00                   307.    1094.     40.7    25.57
 1.03    29.10    26.60     0.00    13.90     4.27    33.37    30.50
MANO  CC   0413   000000 00                    20.      10.      5.9    33.15
 1.03     0.35    34.18     0.00    13.90     0.28     0.63    61.18
MANO  CC   0422   000000 00                  3078.   10967.     40.7    22.60
 1.03   259.19    23.63     0.00    13.90    42.78   301.97    27.54
MANOMOCC   0522   000000 00                   260.     926.     40.7    22.60
 1.03    21.89    23.63     0.00    13.90     3.61    25.51    27.54
MAPP  CC   0422   000000 00                   537.    3081.     65.5    20.63
 1.03    66.74    21.66     0.00    13.90     7.46    74.20    24.09
MAPP  CC   1113   000000 00                    43.      32.      8.4    30.16
 1.03     0.99    31.19     0.00    19.70     0.85     1.84    57.86
MAPP  CC   1122   000000 00                   451.    2154.     54.5    21.66
 1.03    48.87    22.69     0.00    13.90     6.27    55.13    25.60
MAPP  CC   1123   000000 00                    89.      46.      5.9    30.10
 1.03     1.43    31.13     0.00    13.90     1.24     2.66    58.13
MAPP  CC   1124   000000 00                   102.      17.      2.0    34.87
 1.03     0.63    35.90     0.00    19.50     1.99     2.62   149.71
MAPPNECC   1422   000000 00                   118.     701.     67.8    20.62
 1.03    15.18    21.65     0.00    13.90     1.64    16.82    23.99
UPNY  CC   0123   000000 00                    73.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     1.01     1.01     0.00
DSNY  CC   0122   000000 00                  1830.   14493.     90.4    24.41
 1.03   368.72    25.44     0.00    13.90    25.44   394.16    27.20
DSNY  CC   0123   000000 00                   101.      40.      4.5    36.13
 1.03     1.48    37.16     0.00    13.90     1.40     2.89    72.34
NYC   CC   0122   000000 00                   490.    1746.     40.7    28.64
 1.03    51.80    29.67     0.00    13.90     6.81    58.62    33.57
NYC   CC   0123   000000 00                    78.      58.      8.4    39.18
 1.03     2.32    40.21     0.00    13.90     1.08     3.40    59.03
LILC  CC   0113   000000 00                    22.      16.      8.4    36.38
 1.03     0.61    37.41     0.00    19.90     0.44     1.05    64.35
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.704
Total Annual Costs
Year: 2020

| Unit Name | | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LILC CC 0122 | 000000 00 | | 136. | 808. | 67.8 | 26.21 | 1.03 | 22.01 | 27.24 | 0.00 | 13.90 | 1.89 | 23.90 |
| NENG CC 0113 | 000000 00 | | 96. | 43. | 5.1 | 35.95 | 1.03 | 1.60 | 36.98 | 0.00 | 19.30 | 1.85 | 3.45 |
| NENG CC 0122 | 000000 00 | | 5859. | 38118. | 74.3 | 25.11 | 1.03 | 996.30 | 26.14 | 0.00 | 14.00 | 82.03 | 1078.32 |
| NENG CC 0123 | 000000 00 | | 1003. | 172. | 2.0 | 35.66 | 1.03 | 6.30 | 36.69 | 0.00 | 19.20 | 19.26 | 25.56 |
| NENG CC 0912 | 000000 00 | | 33. | 261. | 90.4 | 24.70 | 1.03 | 6.73 | 25.73 | 0.00 | 13.90 | 0.46 | 7.18 |
| NENG CC 0922 | 000000 00 | | 1351. | 10699. | 90.4 | 24.70 | 1.03 | 275.34 | 25.73 | 0.00 | 13.90 | 18.78 | 294.12 |
| NENGCTCC 3222 | 000000 00 | | 1684. | 13337. | 90.4 | 25.04 | 1.03 | 347.64 | 26.07 | 0.00 | 13.90 | 23.41 | 371.05 |
| NENGNHCC 3022 | 000000 00 | | 1245. | 9860. | 90.4 | 24.70 | 1.03 | 253.73 | 25.73 | 0.00 | 13.90 | 17.31 | 271.04 |
| FRCCFLCC 1512 | 000000 00 | | 85. | 578. | 77.6 | 25.07 | 1.03 | 15.08 | 26.10 | 0.00 | 19.90 | 1.69 | 16.77 |
| FRCCFLCC 1513 | 000000 00 | | 89. | 158. | 20.2 | 32.32 | 1.03 | 5.25 | 33.35 | 0.00 | 19.50 | 1.74 | 6.99 |
| FRCCFLCC 1522 | 000000 00 | | 15348. | 67438. | 50.2 | 24.91 | 1.03 | 1749.37 | 25.94 | 0.00 | 14.10 | 216.41 | 1965.78 |
| FRCCFLCC 1523 | 000000 00 | | 789. | 151. | 2.2 | 36.22 | 1.03 | 5.61 | 37.25 | 0.00 | 19.40 | 15.31 | 20.92 |
| FRCCFLCC 1524 | 000000 00 | | 34. | 6. | 2.0 | 38.30 | 1.03 | 0.23 | 39.33 | 0.00 | 13.90 | 0.47 | 0.70 |
| VACA CC 0622 | 000000 00 | | 450. | 2209. | 56.0 | 24.94 | 1.03 | 57.35 | 25.97 | 0.00 | 13.90 | 6.25 | 63.61 |
| VACANCCC 0613 | 000000 00 | | 84. | 14. | 2.0 | 35.60 | 1.03 | 0.53 | 36.63 | 0.00 | 19.90 | 1.67 | 2.20 |
| VACANCCC 0622 | 000000 00 | | 940. | 4614. | 56.0 | 24.94 | 1.03 | 119.81 | 25.97 | 0.00 | 13.90 | 13.07 | 132.87 |
| VACANCCC 0623 | 000000 00 | | 68. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 1.35 | 1.35 |
| VACANCCC 0624 | 000000 00 | | 161. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 19.90 | 3.20 | 3.20 |
| VACAVACC 0322 | 000000 00 | | 2336. | 8297. | 40.5 | 26.69 | 1.03 | 229.96 | 27.72 | 0.00 | 13.90 | 32.47 | 262.44 |
| VACAVACC 0323 | 000000 00 | | 594. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13.90 | 8.26 | 8.26 |
| TVA CC 0622 | 000000 00 | | 79. | 558. | 80.6 | 22.19 | 1.03 | 12.95 | 23.22 | 0.00 | 13.90 | 1.10 | 14.05 |
| TVA MSCC 1622 | 000000 00 | | 2500. | 16297. | 74.4 | 22.19 | 1.03 | 378.38 | 23.22 | 0.00 | 13.90 | 34.75 | 413.13 |
| SOU CC 0612 | 000000 00 | | 27. | 214. | 90.4 | 22.00 | 1.03 | 4.92 | 23.03 | 0.00 | 13.90 | 0.38 | 5.30 |
| SOU CC 0613 | 000000 00 | | 43. | 22. | 5.9 | 32.62 | 1.03 | 0.75 | 33.65 | 0.00 | 19.90 | 0.86 | 1.60 |

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SOU   CC   0622   000000 00                10500.   75056.     81.6    22.03
 1.03  1730.83    23.06     0.00    13.90   145.95  1876.78    25.01
SOU FLCC   1522   000000 00                 500.    3960.     90.4    22.00
 1.03    91.20    23.03     0.00    13.90     6.95    98.15    24.79
SOU MSCC   1622   000000 00                1000.    7920.     90.4    22.00
 1.03   182.39    23.03     0.00    13.90    13.90   196.29    24.79
ENTG  CC   1022   000000 00                6669.   38511.     65.9    22.04
 1.03   888.57    23.07     0.00    13.90    92.70   981.27    25.48
ENTG  CC   1023   000000 00                 203.     105.      5.9    26.48
 1.03     2.88    27.51     0.00    19.90     4.04     6.92    66.16
ENTGMSCC   1622   000000 00                3835.   17526.     52.2    22.04
 1.03   404.39    23.07     0.00    13.90    53.31   457.70    26.11
ENTGMOCC   0522   000000 00                 225.    1356.     68.8    22.04
 1.03    31.30    23.07     0.00    13.90     3.13    34.42    25.38
ENTGTXCC   2322   000000 00                 911.    5492.     68.8    22.04
 1.03   126.72    23.07     0.00    13.90    12.66   139.38    25.38
SPPNMOCC   0522   000000 00                1437.    6037.     48.0    20.52
 1.03   130.11    21.55     0.00    13.90    19.97   150.08    24.86
SPPS  CC   1022   000000 00                 912.    7223.     90.4    20.63
 1.03   156.47    21.66     0.00    13.90    12.68   169.14    23.42
SPPS  CC   3613   000000 00                  40.      30.      8.4    28.93
 1.03     0.89    29.96     0.00    19.40     0.78     1.66    56.23
SPPS  CC   3622   000000 00                6283.   32838.     59.7    20.90
 1.03   720.04    21.93     0.00    14.00    87.96   808.01    24.61
SPPS  CC   3623   000000 00                 219.     162.      8.4    27.39
 1.03     4.60    28.42     0.00    19.90     4.36     8.96    55.36
SPPS  CC   3624   000000 00                  39.       7.      2.0    39.05
 1.03     0.27    40.08     0.00    13.90     0.54     0.81   121.21
SPPSMSCC   1613   000000 00                  50.      37.      8.4    27.95
 1.03     1.07    28.98     0.00    19.80     0.99     2.06    55.78
SPPSTXCC   2322   000000 00                 745.    5900.     90.4    20.63
 1.03   127.82    21.66     0.00    13.90    10.36   138.17    23.42
SPPSTXCC   2722   000000 00                1140.    9028.     90.4    20.63
 1.03   195.58    21.66     0.00    13.90    15.85   211.43    23.42
SPPSTXCC   3522   000000 00                 551.    4364.     90.4    20.63
 1.03    94.53    21.66     0.00    13.90     7.66   102.19    23.42
CALI  CC   0812   000000 00                  40.     155.     44.2    26.98
 1.03     4.34    28.01     0.00    19.90     0.80     5.14    33.14
CALI  CC   0813   000000 00                  65.      11.      2.0    34.78
 1.03     0.40    35.81     0.00    19.40     1.26     1.66   149.04
CALI  CC   0822   000000 00                5856.   46377.     90.4    23.28
 1.03  1127.44    24.31     0.00    13.90    81.40  1208.84    26.07
CALI  CC   0823   000000 00                 513.     362.      8.0    32.01
 1.03    11.95    33.04     0.00    19.40     9.95    21.90    60.56
CALI  CC   0824   000000 00                 272.      47.      2.0    37.18
 1.03     1.78    38.21     0.00    19.90     5.41     7.19   154.36
PNW   CC   0722   000000 00                1512.   11974.     90.4    19.63
 1.03   247.40    20.66     0.00    13.90    21.02   268.41    22.42
PNW   CC   0723   000000 00                   0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    13.90     0.00     0.00     0.00
PNW   CC   0822   000000 00                1533.   12141.     90.4    20.23
 1.03   258.14    21.26     0.00    13.90    21.31   279.45    23.02
PNW   CC   0823   000000 00                   0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.90     0.00     0.00     0.00
AZNM  CC   0812   000000 00                  19.     113.     67.8    21.88
 1.03     2.59    22.91     0.00    13.90     0.26     2.85    25.25
AZNM  CC   0813   000000 00                  16.       3.      2.0    30.75
 1.03     0.09    31.78     0.00    19.90     0.32     0.41   147.93
AZNM  CC   0822   000000 00                8832.   68033.     87.9    20.87
 1.03  1489.67    21.90     0.00    13.90   122.76  1612.44    23.70
AZNM  CC   0823   000000 00                 510.     377.      8.4    27.21
 1.03    10.64    28.24     0.00    19.50     9.95    20.58    54.64
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.705
Total Annual Costs
Year: 2020

| Unit Name | | |

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WUMS  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CC   8     (b)                           1289.    6749.     59.8    21.24
 1.95   156.53    23.19    69.02    11.70   104.05   260.58    38.61
MANO  CC   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCC   5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCC   5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOCC   5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOCC   5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCC   19    (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCC   19    (b)                           7179.   56849.     90.4    19.76
 1.95  1234.41    21.71    67.73    11.70   570.23  1804.64    31.74
RMPA  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CC   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CC   8     (b)                           4007.   31728.     90.4    19.55
 1.95   682.00    21.50    68.89    11.70   322.90  1004.90    31.67
PNW   CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CC   8     (b)                           4152.   32880.     90.4    18.10
 1.95   659.18    20.05    70.56    11.70   341.59  1000.77    30.44
CALI  CC   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CC   8     (b)                          13262.  105013.     90.4    21.80
 1.95  2494.34    23.75    72.63    11.70  1118.34  3612.69    34.40
ECAO  CC   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CC   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CC   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CC   1     (b)                           2211.   13044.     67.3    21.55
 1.95   306.51    23.50    69.02    11.70   178.47   484.99    37.18
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.706
Total Annual Costs
Year: 2020

| Unit Name | VOM | Total | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|
| | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | |
| MACE CC 1 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACE CC 1 (b) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACW CC 1 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACW CC 1 (b) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACS CC 1 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| MACS CC 1 (b) | 1.95 | 143.87 | 24.78 | 68.37 | 11.70 | 978. | 5806. | 67.8 | 22.83 |
| FRCC CC 8 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| FRCC CC 8 (b) | 1.95 | 1008.00 | 24.59 | 66.05 | 11.70 | 5178. | 41000. | 90.4 | 22.64 |
| VACA CC 1 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| VACA CC 1 (b) | 1.95 | 446.89 | 25.31 | 65.92 | 11.70 | 2832. | 17655. | 71.2 | 23.36 |
| VACANCCC 6 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| VACANCCC 6 (b) | 1.95 | 262.74 | 25.29 | 65.92 | 11.70 | 1750. | 10391. | 67.8 | 23.34 |
| TVA CC 1 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| TVA CC 1 (b) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| TVA CC 8 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| TVA CC 8 (b) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ENTG CC 8 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ENTG CC 8 (b) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ENTGMOCC 5 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| ENTGMOCC 5 (b) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| SOU CC 1 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| SOU CC 1 (b) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| SOU CC 8 (a) | 0.00 | 0.00 | 0.00 | 0.00 | 0. | 0. | N/A | 0.00 | 0.00 |
| SOU CC 8 (b) | 1.95 | 1368.66 | 22.65 | 65.92 | 11.70 | 7632. | 60434. | 90.4 | 20.70 |
| | | | | | 592.40 | 1961.06 | 32.45 | | |

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Comb.Cycle Gas                  9          189299. 1172212.     70.7    22.10
 1.36 27505.19    23.46    20.35    13.49  6406.48 33911.66    28.93

ECAO  IGCC 0441142050710 00                  262.    2013.     87.7     6.38
 1.00    14.85     7.38     0.00    31.40     8.23    23.08    11.46
FRCCFLIGCC 1541122050710 00                  250.    1921.     87.7     7.98
 1.00    17.24     8.98     0.00    31.40     7.85    25.09    13.06
NWPE  IGCC 0831402050710 00                  100.     768.     87.7     4.91
 1.00     4.54     5.91     0.00    31.40     3.14     7.68    10.00
NENG  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTIGCC 32    (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTIGCC 32    (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  IGCC 8     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOIGCC 5     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOIGCC 5     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  IGCC 8     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 1     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 1     (b)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  IGCC 8     (a)                          0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.707
Total Annual Costs
Year: 2020

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MACE  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCIGCC 6     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCIGCC 6     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOIGCC 5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOIGCC 5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   IGCC 8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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IGCC                            10              612.    4702.     87.7     6.79
 1.00    36.63     7.79     0.00    31.40    19.22    55.85    11.88

MECS  CT   0411   000000 00                       9.      23.     29.7    27.76
 1.03     0.67    28.79     0.00    11.20     0.10     0.77    33.10
MECS  CT   0412   000000 00                     152.      61.      4.6    32.29
 1.03     2.04    33.32     0.00     9.00     1.37     3.41    55.64
MECS  CT   0413   000000 00                     114.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.28     1.28     0.00
MECS  CT   0414   000000 00                     838.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.80     9.05     9.05     0.00
MECS  CT   0422   000000 00                    2392.      77.      0.4    33.38
 1.03     2.66    34.41     0.00     2.80     6.70     9.36   121.02
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.708
Total Annual Costs
Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXCT | 2313 | 000000 | 00 | | | 21. | 4. | 2.0 | 38.19 | |
| 1.03 | 0.14 | 39.22 | 0.00 | 11.20 | | 0.24 | 0.38 | 104.24 | | |
| ERCTTXCT | 2314 | 000000 | 00 | | | 4. | 1. | 2.0 | 40.31 | |
| 1.03 | 0.03 | 41.34 | 0.00 | 11.20 | | 0.04 | 0.07 | 106.36 | | |
| ERCTTXCT | 2322 | 000000 | 00 | | | 460. | 186. | 4.6 | 31.69 | |
| 1.03 | 6.07 | 32.72 | 0.00 | 2.80 | | 1.29 | 7.36 | 39.66 | | |
| ERCTTXCT | 2323 | 000000 | 00 | | | 200. | 34. | 2.0 | 36.07 | |
| 1.03 | 1.28 | 37.10 | 0.00 | 7.80 | | 1.56 | 2.84 | 82.38 | | |
| ERCTTXCT | 2414 | 000000 | 00 | | | 7. | 1. | 2.0 | 40.31 | |
| 1.03 | 0.05 | 41.34 | 0.00 | 11.20 | | 0.08 | 0.13 | 106.36 | | |
| ERCTTXCT | 2512 | 000000 | 00 | | | 8. | 6. | 8.5 | 29.68 | |
| 1.03 | 0.18 | 30.71 | 0.00 | 8.80 | | 0.07 | 0.25 | 42.46 | | |
| ERCTTXCT | 2514 | 000000 | 00 | | | 27. | 5. | 2.0 | 40.31 | |
| 1.03 | 0.19 | 41.34 | 0.00 | 11.20 | | 0.30 | 0.49 | 106.36 | | |
| ERCTTXCT | 2722 | 000000 | 00 | | | 275. | 206. | 8.5 | 30.76 | |
| 1.03 | 6.55 | 31.79 | 0.00 | 2.80 | | 0.77 | 7.32 | 35.53 | | |
| ERCTTXCT | 3514 | 000000 | 00 | | | 1. | 0. | 2.0 | 40.31 | |
| 1.03 | 0.01 | 41.34 | 0.00 | 7.80 | | 0.01 | 0.01 | 86.62 | | |
| ERCTTXCT | 3522 | 000000 | 00 | | | 260. | 105. | 4.6 | 32.20 | |
| 1.03 | 3.48 | 33.23 | 0.00 | 7.80 | | 2.03 | 5.51 | 52.56 | | |
| ERCTTXCT | 3523 | 000000 | 00 | | | 502. | 86. | 2.0 | 34.79 | |
| 1.03 | 3.10 | 35.82 | 0.00 | 8.10 | | 4.07 | 7.16 | 82.85 | | |
| ERCTTXCT | 3524 | 000000 | 00 | | | 293. | 50. | 2.0 | 40.54 | |
| 1.03 | 2.10 | 41.57 | 0.00 | 3.30 | | 0.97 | 3.06 | 60.73 | | |
| MACE CT | 0113 | 000000 | 00 | | | 22. | 4. | 2.0 | 42.65 | |
| 1.03 | 0.17 | 43.68 | 0.00 | 11.20 | | 0.25 | 0.41 | 108.70 | | |
| MACE CT | 0114 | 000000 | 00 | | | 612. | 28. | 0.5 | 45.63 | |
| 1.03 | 1.31 | 46.66 | 0.00 | 11.20 | | 6.85 | 8.17 | 290.40 | | |
| MACE CT | 0122 | 000000 | 00 | | | 1024. | 543. | 6.1 | 34.73 | |
| 1.03 | 19.43 | 35.76 | 0.00 | 3.40 | | 3.48 | 22.92 | 42.17 | | |
| MACE CT | 0123 | 000000 | 00 | | | 1635. | 282. | 2.0 | 42.00 | |
| 1.03 | 12.12 | 43.03 | 0.00 | 10.40 | | 17.00 | 29.12 | 103.41 | | |
| MACE CT | 0124 | 000000 | 00 | | | 1720. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 10.90 | | 18.75 | 18.75 | 0.00 | | |
| MACE CT | 0212 | 000000 | 00 | | | 3. | 2. | 8.5 | 31.87 | |
| 1.03 | 0.07 | 32.90 | 0.00 | 2.80 | | 0.01 | 0.08 | 36.64 | | |
| MACE CT | 0213 | 000000 | 00 | | | 62. | 11. | 2.0 | 43.28 | |
| 1.03 | 0.47 | 44.31 | 0.00 | 11.20 | | 0.69 | 1.17 | 109.34 | | |
| MACE CT | 0214 | 000000 | 00 | | | 420. | 72. | 2.0 | 45.02 | |
| 1.03 | 3.33 | 46.05 | 0.00 | 11.10 | | 4.66 | 7.99 | 110.49 | | |
| MACE CT | 0222 | 000000 | 00 | | | 1923. | 902. | 5.4 | 34.69 | |
| 1.03 | 32.23 | 35.72 | 0.00 | 3.30 | | 6.35 | 38.57 | 42.76 | | |
| MACE CT | 0223 | 000000 | 00 | | | 190. | 33. | 2.0 | 37.97 | |
| 1.03 | 1.28 | 39.00 | 0.00 | 11.20 | | 2.13 | 3.40 | 104.02 | | |
| MACEVACT | 0312 | 000000 | 00 | | | 4. | 5. | 13.8 | 29.81 | |
| 1.03 | 0.15 | 30.84 | 0.00 | 9.10 | | 0.04 | 0.19 | 38.35 | | |
| MACEVACT | 0314 | 000000 | 00 | | | 12. | 2. | 2.0 | 45.02 | |
| 1.03 | 0.10 | 46.05 | 0.00 | 11.20 | | 0.13 | 0.23 | 111.07 | | |
| MACEVACT | 0323 | 000000 | 00 | | | 26. | 4. | 2.0 | 42.07 | |
| 1.03 | 0.19 | 43.10 | 0.00 | 11.20 | | 0.29 | 0.48 | 108.13 | | |
| MACW CT | 0213 | 000000 | 00 | | | 108. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | | 1.21 | 1.21 | 0.00 | | |
| MACW CT | 0214 | 000000 | 00 | | | 620. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 11.10 | | 6.88 | 6.88 | 0.00 | | |
| MACW CT | 0222 | 000000 | 00 | | | 671. | 116. | 2.0 | 35.05 | |
| 1.03 | 4.17 | 36.08 | 0.00 | 2.80 | | 1.88 | 6.05 | 52.34 | | |
| MACW CT | 0223 | 000000 | 00 | | | 113. | 19. | 2.0 | 39.40 | |
| 1.03 | 0.79 | 40.43 | 0.00 | 11.20 | | 1.27 | 2.05 | 105.46 | | |
| MACW CT | 0224 | 000000 | 00 | | | 134. | 0. | N/A | 0.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | | 0.38 | 0.38 | 0.00 | | |
| MACS CT | 0211 | 000000 | 00 | | | 6. | 13. | 25.7 | 29.48 | |
| 1.03 | 0.41 | 30.51 | 0.00 | 2.80 | | 0.02 | 0.43 | 31.76 | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.709
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACS CT 0212 000000 00 | 45. | 55. | 13.8 | 31.26 | 1.03 | 1.76 | 32.29 | 0.00 | 8.60 | 0.39 | 2.15 | 39.39 |
| MACS CT 0214 000000 00 | 378. | 65. | 2.0 | 45.14 | 1.03 | 3.01 | 46.17 | 0.00 | 11.20 | 4.23 | 7.24 | 111.19 |
| MACS CT 0222 000000 00 | 578. | 100. | 2.0 | 34.92 | 1.03 | 3.58 | 35.95 | 0.00 | 9.10 | 5.26 | 8.84 | 88.78 |
| MACS CT 0223 000000 00 | 208. | 36. | 2.0 | 42.12 | 1.03 | 1.55 | 43.15 | 0.00 | 11.20 | 2.33 | 3.88 | 108.17 |
| MACS CT 0224 000000 00 | 920. | 80. | 1.0 | 45.14 | 1.03 | 3.68 | 46.17 | 0.00 | 9.80 | 9.02 | 12.70 | 159.15 |
| MACSVACT 0322 000000 00 | 169. | 68. | 4.6 | 35.36 | 1.03 | 2.48 | 36.39 | 0.00 | 2.80 | 0.47 | 2.95 | 43.33 |
| WUMS CT 0413 000000 00 | 23. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.80 | 0.18 | 0.18 | 0.00 |
| WUMS CT 0414 000000 00 | 48. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.54 | 0.54 | 0.00 |
| WUMSWICT 1223 000000 00 | 212. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.80 | 1.65 | 1.65 | 0.00 |
| WUMSWICT 1224 000000 00 | 664. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 1.86 | 1.86 | 0.00 |
| WUMSWICT 1312 000000 00 | 18. | 7. | 4.6 | 32.81 | 1.03 | 0.25 | 33.84 | 0.00 | 3.00 | 0.05 | 0.30 | 41.28 |
| WUMSWICT 1313 000000 00 | 61. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.68 | 0.68 | 0.00 |
| WUMSWICT 1314 000000 00 | 187. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.50 | 1.96 | 1.96 | 0.00 |
| WUMSWICT 1322 000000 00 | 1221. | 257. | 2.4 | 32.76 | 1.03 | 8.69 | 33.79 | 0.00 | 2.80 | 3.42 | 12.10 | 47.09 |
| WUMSWICT 1323 000000 00 | 90. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 1.01 | 1.01 | 0.00 |
| WUMSWICT 1324 000000 00 | 630. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 8.90 | 5.61 | 5.61 | 0.00 |
| MANO CT 0411 000000 00 | 3. | 4. | 13.8 | 27.13 | 1.03 | 0.10 | 28.16 | 0.00 | 11.20 | 0.03 | 0.14 | 37.40 |
| MANO CT 0412 000000 00 | 191. | 99. | 5.9 | 31.80 | 1.03 | 3.25 | 32.83 | 0.00 | 3.50 | 0.67 | 3.91 | 39.59 |
| MANO CT 0413 000000 00 | 55. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.20 | 0.62 | 0.62 | 0.00 |
| MANO CT 0414 000000 00 | 1377. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 11.00 | 15.15 | 15.15 | 0.00 |
| MANO CT 0422 000000 00 | 9496. | 1766. | 2.1 | 32.62 | 1.03 | 59.43 | 33.65 | 0.00 | 2.90 | 27.54 | 86.97 | 49.24 |
| MANO CT 0424 000000 00 | 616. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.60 | 6.53 | 6.53 | 0.00 |
| MANOMOCT 0512 000000 00 | 37. | 28. | 8.5 | 30.94 | 1.03 | 0.89 | 31.97 | 0.00 | 9.00 | 0.33 | 1.22 | 43.99 |
| MANOMOCT 0513 000000 00 | 34. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9.90 | 0.34 | 0.34 | 0.00 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MANOMOCT | 0514 | 000000 | 00 | | | | 100. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 10.50 | 1.05 | 1.05 | 0.00 | | | | | | |
| MANOMOCT | 0522 | 000000 | 00 | | | | 1002. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 2.80 | 2.81 | 2.81 | 0.00 | | | | | | |
| MANOMOCT | 0523 | 000000 | 00 | | | | 220. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 9.50 | 2.09 | 2.09 | 0.00 | | | | | | |
| MANOMOCT | 0524 | 000000 | 00 | | | | 124. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 9.70 | 1.20 | 1.20 | 0.00 | | | | | | |
| MAPP CT | 0414 | 000000 | 00 | | | | 64. | 11. | 2.0 | 38.65 | 1.03 | 0.44 | 39.68 |
| 0.00 | 11.20 | 0.72 | 1.15 | 104.70 | | | | | | | | | |
| MAPP CT | 0712 | 000000 | 00 | | | | 2. | 1. | 8.5 | 29.87 | 1.03 | 0.05 | 30.90 |
| 0.00 | 2.80 | 0.01 | 0.05 | 34.64 | | | | | | | | | |
| MAPP CT | 0713 | 000000 | 00 | | | | 64. | 11. | 2.0 | 36.61 | 1.03 | 0.41 | 37.64 |
| 0.00 | 10.10 | 0.65 | 1.06 | 96.27 | | | | | | | | | |
| MAPP CT | 0714 | 000000 | 00 | | | | 114. | 20. | 2.0 | 38.65 | 1.03 | 0.78 | 39.68 |
| 0.00 | 9.90 | 1.13 | 1.91 | 97.15 | | | | | | | | | |
| MAPP CT | 0722 | 000000 | 00 | | | | 30. | 16. | 5.9 | 30.65 | 1.03 | 0.49 | 31.68 |
| 0.00 | 7.80 | 0.23 | 0.73 | 46.74 | | | | | | | | | |
| MAPP CT | 0724 | 000000 | 00 | | | | 371. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 7.80 | 2.89 | 2.89 | 0.00 | | | | | | | | | |
| MAPP CT | 1111 | 000000 | 00 | | | | 64. | 78. | 13.8 | 24.85 | 1.03 | 2.01 | 25.88 |
| 0.00 | 10.70 | 0.68 | 2.69 | 34.71 | | | | | | | | | |
| MAPP CT | 1112 | 000000 | 00 | | | | 273. | 204. | 8.5 | 29.20 | 1.03 | 6.18 | 30.23 |
| 0.00 | 8.80 | 2.40 | 8.58 | 41.98 | | | | | | | | | |
| MAPP CT | 1113 | 000000 | 00 | | | | 144. | 25. | 2.0 | 35.94 | 1.03 | 0.92 | 36.97 |
| 0.00 | 9.50 | 1.37 | 2.29 | 92.13 | | | | | | | | | |
| MAPP CT | 1114 | 000000 | 00 | | | | 1269. | 23. | 0.2 | 38.70 | 1.03 | 0.92 | 39.73 |
| 0.00 | 10.30 | 13.07 | 13.99 | 606.40 | | | | | | | | | |
| MAPP CT | 1122 | 000000 | 00 | | | | 1513. | 872. | 6.6 | 29.80 | 1.03 | 26.89 | 30.83 |
| 0.00 | 2.80 | 4.24 | 31.13 | 35.68 | | | | | | | | | |
| MAPP CT | 1123 | 000000 | 00 | | | | 934. | 161. | 2.0 | 35.27 | 1.03 | 5.84 | 36.30 |
| 0.00 | 9.90 | 9.25 | 15.09 | 93.78 | | | | | | | | | |
| MAPP CT | 1124 | 000000 | 00 | | | | 353. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 10.10 | 3.57 | 3.57 | 0.00 | | | | | | | | | |
| MAPPMOCT | 0513 | 000000 | 00 | | | | 42. | 7. | 2.0 | 36.87 | 1.03 | 0.27 | 37.90 |
| 0.00 | 7.80 | 0.33 | 0.60 | 83.18 | | | | | | | | | |
| MAPPMOCT | 0523 | 000000 | 00 | | | | 62. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 11.20 | 0.69 | 0.69 | 0.00 | | | | | | | | | |
| MAPPNECT | 1412 | 000000 | 00 | | | | 49. | 59. | 13.8 | 28.86 | 1.03 | 1.78 | 29.89 |
| 0.00 | 10.00 | 0.49 | 2.27 | 38.14 | | | | | | | | | |
| MAPPNECT | 1413 | 000000 | 00 | | | | 21. | 4. | 2.0 | 35.84 | 1.03 | 0.13 | 36.87 |
| 0.00 | 11.20 | 0.24 | 0.37 | 101.90 | | | | | | | | | |
| MAPPNECT | 1414 | 000000 | 00 | | | | 234. | 40. | 2.0 | 38.65 | 1.03 | 1.60 | 39.68 |
| 0.00 | 10.50 | 2.46 | 4.06 | 100.64 | | | | | | | | | |
| MAPPNECT | 1422 | 000000 | 00 | | | | 629. | 471. | 8.5 | 30.21 | 1.03 | 14.71 | 31.24 |
| 0.00 | 3.20 | 2.01 | 16.73 | 35.52 | | | | | | | | | |
| MAPPNECT | 1423 | 000000 | 00 | | | | 496. | 87. | 2.0 | 34.64 | 1.03 | 3.12 | 35.67 |
| 0.00 | 10.50 | 5.21 | 8.32 | 95.28 | | | | | | | | | |
| MAPPNECT | 1424 | 000000 | 00 | | | | 82. | 14. | 2.0 | 38.65 | 1.03 | 0.56 | 39.68 |
| 0.00 | 2.80 | 0.23 | 0.79 | 55.93 | | | | | | | | | |
| MAPPWICT | 1312 | 000000 | 00 | | | | 25. | 19. | 8.5 | 28.84 | 1.03 | 0.56 | 29.87 |
| 0.00 | 3.60 | 0.09 | 0.65 | 34.68 | | | | | | | | | |
| MAPPWICT | 1313 | 000000 | 00 | | | | 13. | 2. | 2.0 | 36.27 | 1.03 | 0.08 | 37.30 |
| 0.00 | 8.80 | 0.11 | 0.20 | 88.39 | | | | | | | | | |
| MAPPWICT | 1314 | 000000 | 00 | | | | 83. | 14. | 2.0 | 38.65 | 1.03 | 0.57 | 39.68 |
| 0.00 | 10.20 | 0.85 | 1.41 | 98.90 | | | | | | | | | |
| MAPPWICT | 1322 | 000000 | 00 | | | | 82. | 61. | 8.5 | 29.87 | 1.03 | 1.90 | 30.90 |
| 0.00 | 2.80 | 0.23 | 2.13 | 34.64 | | | | | | | | | |
| MAPPWICT | 1323 | 000000 | 00 | | | | 484. | 83. | 2.0 | 35.80 | 1.03 | 3.07 | 36.83 |
| 0.00 | 11.20 | 5.42 | 8.49 | 101.85 | | | | | | | | | |
| UPNY CT | 0112 | 000000 | 00 | | | | 8. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| 0.00 | 2.80 | 0.02 | 0.02 | 0.00 | | | | | | | | | |

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NENGCTCT   3213   000000 00                    15.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.17     0.17     0.00
NENGCTCT   3214   000000 00                   199.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.10     2.21     2.21     0.00
NENGCTCT   3222   000000 00                   333.     134.      4.6    36.01
 1.03     4.98    37.04     0.00     2.80     0.93     5.91    43.99
NENGCTCT   3223   000000 00                    31.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     7.80     0.24     0.24     0.00
NENGCTCT   3224   000000 00                   418.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     9.10     3.80     3.80     0.00
NENGNHCT   2914   000000 00                    81.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.91     0.91     0.00
NENGNHCT   3014   000000 00                    12.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.03     0.03     0.00
FRCCFLCT   1512   000000 00                    68.     104.     17.5    33.84
 1.03     3.63    34.87     0.00     9.60     0.65     4.28    41.14
FRCCFLCT   1513   000000 00                    30.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.34     0.34     0.00
FRCCFLCT   1514   000000 00                   389.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.10     3.93     3.93     0.00
FRCCFLCT   1522   000000 00                  5658.    4156.      8.4    35.53
 1.03   151.94    36.56     0.00     3.00    16.97   168.91    40.65
FRCCFLCT   1523   000000 00                  2073.     306.      1.7    41.75
 1.03    13.11    42.78     0.00    10.10    20.94    34.05   111.09
FRCCFLCT   1524   000000 00                  2182.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.20    22.26    22.26     0.00
VACA  CT   0612   000000 00                    22.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     7.80     0.17     0.17     0.00
VACA  CT   0613   000000 00                    60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.67     0.67     0.00
VACA  CT   0614   000000 00                   493.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     5.52     5.52     0.00
VACA  CT   0622   000000 00                  1934.     333.      2.0    35.16
 1.03    12.05    36.19     0.00     2.80     5.42    17.47    52.44
VACA  CT   0623   000000 00                   446.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     5.00     5.00     0.00
VACA  CT   0624   000000 00                   581.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     9.10     5.29     5.29     0.00
VACANCCT   0611   000000 00                     1.       2.     25.7    29.88
 1.03     0.07    30.91     0.00     7.80     0.01     0.08    34.38
VACANCCT   0613   000000 00                    26.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.29     0.29     0.00
VACANCCT   0614   000000 00                   222.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.90     2.42     2.42     0.00
VACANCCT   0622   000000 00                  3047.     525.      2.0    35.05
 1.03    18.94    36.08     0.00     2.80     8.53    27.47    52.34
VACANCCT   0623   000000 00                  1291.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     3.10     4.00     4.00     0.00
VACANCCT   0624   000000 00                   430.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     4.82     4.82     0.00
VACAVACT   0312   000000 00                    28.      14.      5.9    31.12
 1.03     0.47    32.15     0.00     7.80     0.22     0.68    47.22
VACAVACT   0313   000000 00                     3.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     7.80     0.02     0.02     0.00
VACAVACT   0314   000000 00                   426.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.90     4.64     4.64     0.00
VACAVACT   0322   000000 00                  1647.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     4.61     4.61     0.00
VACAVACT   0324   000000 00                   387.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     1.08     1.08     0.00
TVA   CT   0612   000000 00                     4.       1.      2.0    32.33
 1.03     0.02    33.36     0.00     2.80     0.01     0.03    49.62
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SPPN  CT   1711   000000 00                    17.      38.     25.7    24.65
 1.03     0.98    25.68     0.00     8.50     0.14     1.13    29.46
SPPN  CT   1712   000000 00                   214.     111.      5.9    29.38
 1.03     3.37    30.41     0.00     9.00     1.93     5.30    47.80
SPPN  CT   1713   000000 00                    90.      16.      2.0    36.72
 1.03     0.59    37.75     0.00     9.60     0.86     1.45    93.48
SPPN  CT   1714   000000 00                   493.      85.      2.0    38.96
 1.03     3.40    39.99     0.00    10.30     5.08     8.47    99.79
SPPN  CT   1722   000000 00                   353.     183.      5.9    30.27
 1.03     5.72    31.30     0.00     3.60     1.27     6.99    38.25
SPPN  CT   1723   000000 00                   637.     287.      5.1    34.76
 1.03    10.27    35.79     0.00    10.70     6.82    17.08    59.55
SPPN  CT   1724   000000 00                    81.      14.      2.0    38.90
 1.03     0.56    39.93     0.00     2.80     0.23     0.78    56.19
SPPNMOCT   0511   000000 00                     2.       4.     25.7    25.01
 1.03     0.12    26.04     0.00     7.80     0.02     0.13    29.50
SPPNMOCT   0512   000000 00                   103.      53.      5.9    28.39
 1.03     1.57    29.42     0.00    10.00     1.03     2.60    48.74
SPPNMOCT   0513   000000 00                    11.       2.      2.0    36.19
 1.03     0.07    37.22     0.00     7.80     0.09     0.16    82.51
SPPNMOCT   0514   000000 00                   309.      53.      2.0    38.90
 1.03     2.13    39.93     0.00    10.80     3.34     5.46   102.63
SPPNMOCT   0522   000000 00                  1320.     683.      5.9    29.92
 1.03    21.15    30.95     0.00     3.70     4.88    26.03    38.09
SPPNMOCT   0523   000000 00                   733.     126.      2.0    35.04
 1.03     4.55    36.07     0.00     9.40     6.89    11.44    90.64
SPPNMOCT   0524   000000 00                   288.      50.      2.0    38.90
 1.03     1.98    39.93     0.00     2.80     0.81     2.79    56.19
SPPS  CT   0812   000000 00                     6.       4.      8.5    29.51
 1.03     0.14    30.54     0.00    11.20     0.07     0.20    45.50
SPPS  CT   0814   000000 00                    35.       6.      2.0    39.05
 1.03     0.24    40.08     0.00    11.20     0.39     0.63   105.10
SPPS  CT   0823   000000 00                    66.      11.      2.0    34.93
 1.03     0.41    35.96     0.00    11.20     0.74     1.15   100.98
SPPS  CT   0824   000000 00                   244.      42.      2.0    39.05
 1.03     1.68    40.08     0.00     2.80     0.68     2.37    56.33
SPPS  CT   1012   000000 00                     9.       7.      8.5    29.38
 1.03     0.20    30.41     0.00     9.30     0.08     0.29    42.83
SPPS  CT   1014   000000 00                    76.      13.      2.0    39.00
 1.03     0.52    40.03     0.00    10.40     0.79     1.31   100.41
SPPS  CT   1022   000000 00                   457.      90.      2.2    29.97
 1.03     2.78    31.00     0.00     2.80     1.28     4.06    45.26
SPPS  CT   3612   000000 00                    11.       8.      8.5    28.69
 1.03     0.24    29.72     0.00     9.90     0.11     0.35    42.95
SPPS  CT   3614   000000 00                   161.      28.      2.0    39.05
 1.03     1.11    40.08     0.00    11.00     1.77     2.88   103.94
SPPS  CT   3622   000000 00                   512.     207.      4.6    30.07
 1.03     6.42    31.10     0.00     2.80     1.43     7.86    38.04
SPPS  CT   3623   000000 00                    53.       9.      2.0    38.14
 1.03     0.36    39.17     0.00    11.20     0.59     0.95   104.20
SPPS  CT   3624   000000 00                   162.      28.      2.0    39.77
 1.03     1.14    40.80     0.00    11.20     1.81     2.95   105.82
SPPSMSCT   1614   000000 00                    15.       3.      2.0    39.05
 1.03     0.10    40.08     0.00    11.20     0.17     0.27   105.10
SPPSTXCT   2214   000000 00                    40.       7.      2.0    39.05
 1.03     0.28    40.08     0.00    11.20     0.45     0.72   105.10
SPPSTXCT   2322   000000 00                   100.      17.      2.0    29.95
 1.03     0.53    30.98     0.00     2.80     0.28     0.81    47.23
SPPSTXCT   2512   000000 00                     3.       1.      4.6    29.97
 1.03     0.04    31.00     0.00    11.20     0.03     0.07    58.76
SPPSTXCT   2513   000000 00                     5.       1.      2.0    37.54
 1.03     0.03    38.57     0.00    11.20     0.06     0.09   103.60
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RMPA  CT   0713   000000 00                    68.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     9.50     0.65     0.65     0.00
RMPA  CT   0714   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
RMPA  CT   0722   000000 00                    48.      19.      4.6    28.16
 1.03     0.57    29.19     0.00     2.80     0.13     0.70    36.13
RMPA  CT   0723   000000 00                    42.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     7.80     0.33     0.33     0.00
RMPA  CT   0812   000000 00                    10.       4.      4.6    28.16
 1.03     0.12    29.19     0.00     2.80     0.03     0.15    36.13
RMPA  CT   0814   000000 00                   121.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     1.36     1.36     0.00
RMPA  CT   0822   000000 00                  1444.     459.      3.6    28.08
 1.03    13.35    29.11     0.00     3.00     4.33    17.68    38.56
RMPA  CT   0823   000000 00                    31.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.35     0.35     0.00
RMPA  CT   0824   000000 00                   235.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     2.63     2.63     0.00
RMPANECT   1412   000000 00                     4.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.04     0.04     0.00
RMPANECT   1414   000000 00                    11.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.12     0.12     0.00
NWPE  CT   0712   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     7.80     0.00     0.00     0.00
NWPE  CT   0714   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
NWPE  CT   0722   000000 00                   160.      65.      4.7    23.85
 1.03     1.62    24.88     0.00     2.80     0.45     2.07    31.74
NWPE  CT   0811   000000 00                    14.      60.     48.9    23.33
 1.03     1.46    24.36     0.00     7.80     0.11     1.57    26.18
NWPE  CT   0812   000000 00                    53.      27.      5.9    22.96
 1.03     0.66    23.99     0.00     7.80     0.41     1.07    39.06
NWPE  CT   0814   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.80     0.00     0.00     0.00
NWPE  CT   0822   000000 00                   928.     147.      1.8    24.16
 1.03     3.69    25.19     0.00     2.80     2.60     6.29    42.91
NWPE  CT   0824   000000 00                     0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.20     0.00     0.00     0.00
NENG  CT   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  ACT  1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  ACT  1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   32    (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   32    (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTACT  32    (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTACT  32    (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  ACT  1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  ACT  1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.713
Total Annual Costs
Year: 2020

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WUMS  CT   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  ACT  1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  ACT  1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   8     (a)                            266.       0.      N/A     0.00
 0.00     0.00     0.00    55.48     9.80    17.38    17.38     0.00
WUMS  CT   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  ACT  8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  ACT  8     (b)                           2384.    3214.     15.4    25.77
 2.94    92.27    28.71    53.06     7.80   145.09   237.36    73.85
MANO  CT   1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  ACT  1     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  ACT  1     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  ACT  8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  ACT  8     (b)                           3251.    3938.      13.8    25.78
 2.94   113.09    28.72    53.06     7.80   197.88   310.97    78.96
MANOMOCT   5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOACT  5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOACT  5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CT   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CT   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  ACT  8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  ACT  8     (b)                           1200.    2109.     20.1    23.45
 2.94    55.67    26.39    52.66     7.80    72.53   128.20    60.77
SPPN  CT   8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  CT   8     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  ACT  8     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  ACT  8     (b)                            869.    1216.     16.0    23.38
 2.94    32.00    26.32    52.66     7.80    52.53    84.53    69.52
SPPNMOCT   5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOCT   5     (b)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOACT  5     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.714
Total Annual Costs
Year: 2020

| Unit Name | VOM Total MMUS$ | VOM Total mill/kWh | Capital US$/kW/a | FOM US$/kW/a | Capacity Total [MW] MMUS$ | Gener. Total [GWh] MMUS$ | C.F. Total [%] mill/kWh | Fuel mill/kWh | Variable Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|
| SPPNMOACT 5 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 19 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 19 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXACT 19 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXACT 19 (b) | 13287. | 23917. | 20.5 | 24.10 | 2.94 | 646.71 | 27.04 | 52.13 | 7.80 |
| RMPA CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ACT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT 8 (b) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI ACT 8 (a) | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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CALI  ACT  8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  ACT  1     (b)                             4213.    5103.     13.8    26.59
 2.94   150.69    29.53    53.06     7.80   256.40   407.08    79.78
MECS  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  ACT  1     (b)                              772.     935.     13.8    26.11
 2.94    27.16    29.05    53.06     7.80    46.97    74.12    79.30
MACE  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  ACT  1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  ACT  1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  ACT  1     (b)                             2237.    2837.      14.5    27.64
 2.94    86.75    30.58    52.66     7.80   135.27   222.02    78.26
FRCC  CT   8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  CT   8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  ACT  8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  ACT  8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  CT   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  CT   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  ACT  1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  ACT  1     (b)                             7270.    9787.      15.4    27.99
 2.94   302.70    30.93    50.79     7.80   425.89   728.60    74.45
VACANCCT   6     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCT   6     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.715
Total Annual Costs
Year: 2020

| Unit Name | | | Capital | FOM | Capacity Total [MW] | Gener. Total [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Fixed Costs | | | Total Costs | | | | |
| | | MMUS$ | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | |
| VACANCACT | 6 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| VACANCACT | 6 | (b) | | | 929. | 2069. | 25.4 | 27.89 | 2.94 | 63.78 |
| | | 30.83 | 50.79 | 7.80 | 54.41 | 118.19 | 57.12 | | | |
| TVA CT | 1 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA CT | 1 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA ACT | 1 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA ACT | 1 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA CT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA CT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA ACT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| TVA ACT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTG CT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTG CT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTG ACT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTG ACT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTGMOCT | 5 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTGMOCT | 5 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTGMOACT | 5 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| ENTGMOACT | 5 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU CT | 1 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU CT | 1 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU ACT | 1 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU ACT | 1 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU CT | 8 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |
| SOU CT | 8 | (b) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 |
| | | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | |

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SOU   ACT  8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   ACT  8     (b)                           4142.    8372.     23.1    25.11
 2.94   234.81    28.05    50.79     7.80   242.69   477.50    57.04
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Turbine                          11          171896.   95969.      6.4    28.06
 2.32  2915.66    30.38    12.61     6.15  3225.33  6140.98    63.99

MECS  BIOMS00  42 000000 00                     161.    1237.     87.7     6.36
 5.36    14.50    11.72     0.00    44.80     7.21    21.71    17.56
ECAO  BIOMS00  42 000000 00                      84.     645.     87.7     6.36
 5.36     7.57    11.72     0.00    44.80     3.76    11.33    17.56
MACE  BIOMS00  44 000000 00                       8.      61.     87.7     5.29
 5.36     0.65    10.65     0.00    44.80     0.36     1.01    16.48
MACW  BIOMS00  44 000000 00                      17.     131.     87.7     6.09
 5.36     1.50    11.45     0.00    44.80     0.76     2.26    17.28
WUMS  BIOMS00  45 000000 00                      12.      92.     87.7     5.29
 5.36     0.98    10.65     0.00    44.80     0.54     1.52    16.48
MANO  BIOMS00  45 000000 00                       1.       8.     87.7     5.29
 5.36     0.08    10.65     0.00    44.80     0.04     0.13    16.48
MAPP  BIOMS00  46 000000 00                     163.    1252.     87.7    11.25
 5.36    20.80    16.61     0.00    44.80     7.30    28.11    22.44
UPNY  BIOMS00  47 000000 00                      18.     138.     87.7     6.09
 5.36     1.58    11.45     0.00    44.80     0.81     2.39    17.28
NENG  BIOMS00  48 000000 00                     309.     906.     33.5    22.77
 5.36    25.49    28.13     0.00    44.80    13.84    39.33    43.40
FRCC  BIOMS00  49 000000 00                      54.     415.     87.7     6.09
 5.36     4.75    11.45     0.00    44.80     2.42     7.17    17.28
VACA  BIOMS00  50 000000 00                      47.     361.     87.7     6.09
 5.36     4.13    11.45     0.00    44.80     2.11     6.24    17.28
TVA   BIOMS00  50 000000 00                       1.       8.     87.7     6.09
 5.36     0.09    11.45     0.00    44.80     0.04     0.13    17.28
ENTG  BIOMS00  51 000000 00                      10.      77.     87.7     6.09
 5.36     0.88    11.45     0.00    44.80     0.45     1.33    17.28
CALI  BIOMS00  54 000000 00                     432.    3319.     87.7    18.90
 5.36    80.52    24.26     0.00    44.80    19.35    99.87    30.09
PNW   BIOMS00  52 000000 00                       6.      46.     87.7     8.17
 5.36     0.62    13.53     0.00    44.80     0.27     0.89    19.36
AZNM  BIOMS00  53 000000 00                      18.     138.     87.7     9.93
 5.36     2.11    15.29     0.00    44.80     0.81     2.92    21.12
RMPA  BIOMS00  53 000000 00                       1.       8.     87.7     9.93
 5.36     0.12    15.29     0.00    44.80     0.04     0.16    21.12
NWPE  BIOMS00  52 000000 00                       5.      38.     87.7     8.17
 5.36     0.52    13.53     0.00    44.80     0.22     0.74    19.36
NENG  BIOCC0     (a)                             63.     373.     67.5    20.42
 5.34     9.61    25.76   215.30    44.80    16.41    26.02    69.77
UPNY  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  BIOCC0     (a)                              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.716
Total Annual Costs
Year: 2020

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 0.00     0.00     0.00     0.00    87.40    21.06    21.06    11.47
RMPA  GEOR 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ10     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ40     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  GEOJ50     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  GEOA 0     (a)                          280.    2142.     87.2     0.00
 0.00     0.00     0.00   352.02    85.80   122.76   122.76    57.31
AZNM  GEOA20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   GEOP30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC 0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC20     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  GEOC30     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Geothermal                     13            3223.   24571.     87.0     0.00
 0.00     0.00     0.00    30.62    87.26   379.98   379.98    15.46

MECS  LFGAS00     000000 00                      5.      39.     90.0     0.00
10.48     0.41    10.48     0.00    78.60     0.39     0.81    20.45
ECAO  LFGAS00     000000 00                     12.      95.     90.0     0.00
10.48     0.99    10.48     0.00    78.60     0.94     1.93    20.45
ERCT  LFGAS00     000000 00                     67.     528.     90.0     0.00
10.48     5.54    10.48     0.00    78.60     5.27    10.80    20.45
MACE  LFGAS00     000000 00                     24.     189.     90.0     0.00
10.48     1.98    10.48     0.00    78.60     1.89     3.87    20.45
MACW  LFGAS00     000000 00                      1.       8.     90.0     0.00
10.48     0.08    10.48     0.00    78.60     0.08     0.16    20.45
MACS  LFGAS00     000000 00                      4.      32.     90.0     0.00
10.48     0.33    10.48     0.00    78.60     0.31     0.64    20.45
WUMS  LFGAS00     000000 00                     14.     110.     90.0     0.00
10.48     1.16    10.48     0.00    78.60     1.10     2.26    20.45
MANO  LFGAS00     000000 00                     38.     300.     90.0     0.00
10.48     3.14    10.48     0.00    78.60     2.99     6.13    20.45
MAPP  LFGAS00     000000 00                     11.      87.     90.0     0.00
10.48     0.91    10.48     0.00    78.60     0.86     1.77    20.45
UPNY  LFGAS00     000000 00                      6.      47.     90.0     0.00
10.48     0.50    10.48     0.00    78.60     0.47     0.97    20.45
NENG  LFGAS00     000000 00                     18.     142.     90.0     0.00
10.48     1.49    10.48     0.00    78.60     1.41     2.90    20.45
FRCC  LFGAS00     000000 00                      2.      16.     90.0     0.00
10.48     0.17    10.48     0.00    78.60     0.16     0.32    20.45
VACA  LFGAS00     000000 00                     25.     197.     90.0     0.00
10.48     2.07    10.48     0.00    78.60     1.96     4.03    20.45
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.717
Total Annual Costs
Year: 2020

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MACE  LG   0     (a)                          125.     934.     85.0     0.00
10.48     9.79    10.48   174.07    78.60    31.68    41.47    44.40
MACW  LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   LG   0     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Landfill Gas                  14            1003.    7694.     87.5     0.00
10.48    80.63    10.48    92.26    78.60   171.46   252.08    32.77

MECS  WIND 00     000000 00                     1.       2.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     0.03     0.03    10.83
ECAO  WIND 00     000000 00                   105.     256.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     2.77     2.77    10.83
ERCT  WIND 00     000000 00                   703.    2288.     37.1     0.00
 0.00     0.00     0.00     0.00    26.40    18.56    18.56     8.11
MACE  WIND 00     000000 00                    14.      31.     25.3     0.00
 0.00     0.00     0.00     0.00    26.40     0.37     0.37    11.91
MACW  WIND 00     000000 00                    10.      27.     30.4     0.00
 0.00     0.00     0.00     0.00    26.40     0.26     0.26     9.93
WUMS  WIND 00     000000 00                    13.      32.     27.8     0.00
 0.00     0.00     0.00     0.00    26.40     0.34     0.34    10.83
MANO  WIND 00     000000 00                    52.     137.     30.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.37     1.37    10.05
MAPP  WIND 00     000000 00                   857.    2252.     30.0     0.00
 0.00     0.00     0.00     0.00    26.40    22.62    22.62    10.05
UPNY  WIND 00     000000 00                   194.     136.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     5.12     5.12    37.55
DSNY  WIND 00     000000 00                    64.      45.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.69     1.69    37.55
NYC   WIND 00     000000 00                    59.      41.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     1.56     1.56    37.55
LILC  WIND 00     000000 00                    36.      25.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     0.95     0.95    37.55
NENG  WIND 00     000000 00                    31.      22.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40     0.82     0.82    37.55
VACA  WIND 00     000000 00                    14.      31.     25.3     0.00
 0.00     0.00     0.00     0.00    26.40     0.37     0.37    11.91
TVA   WIND 00     000000 00                     2.       3.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     0.05     0.05    17.01
ENTG  WIND 00     000000 00                    57.      88.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     1.50     1.50    17.01
SPPS  WIND 00     000000 00                    66.     102.     17.7     0.00
 0.00     0.00     0.00     0.00    26.40     1.74     1.74    17.01
CALI  WIND 00     000000 00                  1931.    7234.     42.8     0.00
 0.00     0.00     0.00     0.00    26.40    50.98    50.98     7.05
PNW   WIND 00     000000 00                   412.     290.      8.0     0.00
 0.00     0.00     0.00     0.00    26.40    10.88    10.88    37.55
AZNM  WIND 00     000000 00                    49.     159.     37.1     0.00
 0.00     0.00     0.00     0.00    26.40     1.29     1.29     8.11
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.718
Total Annual Costs
Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | WIN520 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | WIN530 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | WIN410 | (a) | | | | | 32. | 84. | 29.9 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 139.76 | 26.40 | 5.32 | 5.32 | 63.48 | | | | | |
| MAPP | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| MAPP | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPS | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPS | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPS | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ERCTTX | WIN410 | (a) | | | | | 224. | 586. | 29.9 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 138.42 | 26.40 | 36.92 | 36.92 | 62.97 | | | | | |
| ERCTTX | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| ERCTTX | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN610 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN620 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN630 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN510 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN520 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN530 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | WIN430 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN610 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN620 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN630 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN510 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN520 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN530 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN410 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | WIN420 | (a) | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.719
Total Annual Costs
Year: 2020

| | | | Fixed Costs | | | Total Costs | | | Variable Costs | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Capacity | Gener. | C.F. | Fuel | | | | | | | | | |
| | | | | | Total | Total | | | | | | | | | | | |
| | | | | | [MW] | [GWh] | [%] | | | | | | | | | | |
| Unit | Name | | Capital | FOM | MMUS$ | MMUS$ | mill/kWh | mill/kWh | VOM | Total | | | | | | | |
| | | MMUS$ | US$/kW/a | US$/kW/a | | | | | mill/kWh | mill/kWh | | | | | | | |
| NWPE | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN510 | (a) | | | 263. | 758. | 32.9 | 0.00 | 0.00 | 0.00 | 0.00 | 143.65 | 26.40 | 44.72 | 44.72 | 59.03 | |
| AZNM | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CALI | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| CALI | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | WIN410 | (a) | | | | | | 126. | 330. | 29.9 | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 138.82 | 26.40 | 20.82 | 20.82 | 63.12 | | | | | | |
| MACE | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN410 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN420 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | WIN430 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN610 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN620 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN630 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN510 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN520 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACA | WIN530 | (a) | | | | | | 0. | 0. | N/A | 0.00 | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.720
Total Annual Costs
Year: 2020

| | | | Fixed Costs | | | Total Costs | | | Variable Costs | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Capacity | Gener. | C.F. | Fuel | | | | | | | | |
| Unit | Name | Total | Capital | FOM | Total | Total | | | VOM | | | | | | | |
| | | | | | [MW] | [GWh] | [%] | mill/kWh | mill/kWh | | | | | | | |
| | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | | | | |
| VACA | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN610 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN620 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN630 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN510 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN520 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN530 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN410 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN420 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | WIN430 | (a) | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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Wind                            15            6488.   18272.     32.1     0.00
 0.00     0.00     0.00    32.28    26.40   380.74   380.74    20.84

MACE  FCELL00     000000 00                    15.      54.     40.8    24.27
 2.06     1.41    26.33     0.00    15.00     0.23     1.64    30.52
UPNY  FCELL00     000000 00                     1.       8.     90.7    23.17
 2.06     0.20    25.23     0.00    15.00     0.01     0.22    27.12
NENG  FCELL00     000000 00                     1.       5.     56.4    24.85
 2.06     0.13    26.91     0.00    15.00     0.01     0.15    29.94
NENG  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  FC   1     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  FC   1     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  FC   8     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  FC   8     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOFC   5     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOFC   5     (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXFC   19    (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXFC   19    (b)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  FC   8     (a)                            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.721
Total Annual Costs
Year: 2020

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TVA   FC   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  FC   8     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  FC   8     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   FC   1     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   FC   1     (b)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Fuel Cell                      16                  17.      67.     44.7    24.18
 2.06     1.75    26.24     0.00    15.00     0.26     2.00    30.07

ERCT  SOLAR00     000000 00                         1.       0.      5.5     0.00
 0.00     0.00     0.00     0.00    47.00     0.05     0.05    97.62
CALI  SOLAR00     000000 00                       324.     790.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00    15.23    15.23    19.27
AZNM  SOLAR00     000000 00                        61.      29.      5.5     0.00
 0.00     0.00     0.00     0.00    47.00     2.87     2.87    97.62
RMPA  SOLAR00     000000 00                         3.       7.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00     0.14     0.14    19.27
NWPE  SOLAR00     000000 00                        24.      59.     27.8     0.00
 0.00     0.00     0.00     0.00    47.00     1.13     1.13    19.27
NENG  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  SLRTH0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  SLRPV0     (a)                                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.722
Total Annual Costs
Year: 2020

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 0.00     0.00     0.00     0.00   103.60     1.35     1.35    13.14
MECS  OTHER00     000000 00                    15.     118.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.55     1.55    13.14
ECAO  OTHER00     000000 00                    90.     710.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     9.32     9.32    13.14
ERCT  OTHER00     000000 00                    10.      79.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.14
MACE  OTHER00     000000 00                   257.    2026.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    26.63    26.63    13.14
MACW  OTHER00     000000 00                   119.     938.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    12.33    12.33    13.14
MACS  OTHER00     000000 00                    55.     434.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     5.70     5.70    13.14
MAPP  OTHER00     000000 00                    34.     268.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.14
UPNY  OTHER00     000000 00                    34.     268.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.14
DSNY  OTHER00     000000 00                    82.     646.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     8.50     8.50    13.14
LILC  OTHER00     000000 00                   137.    1080.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    14.19    14.19    13.14
NENG  OTHER00     000000 00                   537.    4234.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    55.63    55.63    13.14
FRCC  OTHER00     000000 00                   424.    3343.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    43.93    43.93    13.14
VACA  OTHER00     000000 00                   140.    1104.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    14.50    14.50    13.14
TVA   OTHER00     000000 00                    12.      95.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.24     1.24    13.14
ENTG  OTHER00     000000 00                    31.     244.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     3.21     3.21    13.14
SPPS  OTHER00     000000 00                    10.      79.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.14
CALI  OTHER00     000000 00                   178.    1403.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60    18.44    18.44    13.14
PNW   OTHER00     000000 00                    58.     457.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     6.01     6.01    13.14
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Non Fossil_Other               18            2275.   17936.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60   235.69   235.69    13.14

ECAO  WASTE062    000000 00                    60.     473.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     6.22     6.22    13.14
ERCTTXWASTE271    000000 00                     2.      16.     90.0     0.00
 0.00     0.00     0.00     0.00   108.60     0.22     0.22    13.78
MANO  WASTE041    000000 00                     2.      16.     90.0     0.00
 0.00     0.00     0.00     0.00   108.60     0.22     0.22    13.78
CALI  WASTE081    000000 00                    20.     158.     90.0     0.00
 0.00     0.00     0.00     0.00   103.60     2.07     2.07    13.14
NWPE  WASTE072    000000 00                    41.     323.     90.0     0.00
 0.00     0.00     0.00     0.00   108.60     4.45     4.45    13.78
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Fossil_Other                   19             125.     985.     90.0     0.00
 0.00     0.00     0.00     0.00   105.40    13.18    13.18    13.37

MECS  PUMPS00     000000 00                  1872.    1905.     11.6     0.00
 0.00     0.00     0.00     0.00     6.50    12.17    12.17     6.39
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.723
Total Annual Costs
Year: 2020

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Int. Imports                   21           11000.   22657.     23.5     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  CGCOU0431392050710 01                     55.     402.     83.5     9.56
 1.54     4.47    11.10     0.00    16.70     0.92     5.38    13.38
ECAO  CGCOU0231412050710 01                    127.     597.     53.7    13.08
 1.54     8.73    14.62     0.00    22.40     2.84    11.57    19.38
ECAO  CGCOU0411142050710 01                      1.       7.     83.5    10.55
 1.54     0.09    12.09     0.00    22.40     0.02     0.11    15.15
MACE  CGCOU0141012050710 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.70     0.00     0.00     0.00
MACE  CGCOU0211412050710 01                      8.      59.     83.5    11.69
 1.54     0.77    13.23     0.00    22.40     0.18     0.95    16.30
MACW  CGCOU0211412050710 01                     44.     322.     83.5    11.47
 1.54     4.19    13.01     0.00    21.10     0.93     5.12    15.90
MACW  CGCOU0231412050710 01                     82.     600.     83.5    10.54
 1.54     7.24    12.08     0.00    11.70     0.96     8.20    13.67
MACW  CGCOU0232412050710 01                    120.     488.     46.4    14.28
 1.54     7.72    15.82     0.00    20.50     2.46    10.18    20.86
MACW  CGCOU0241412050710 01                    101.     739.     83.5    11.23
 1.54     9.44    12.77     0.00    16.70     1.69    11.12    15.06
WUMSWICGCOU1211162050710 01                     11.      80.     83.5     6.51
 1.54     0.65     8.05     0.00    11.70     0.13     0.78     9.65
WUMSWICGCOU1311162050710 01                      4.      29.     83.5     7.55
 1.54     0.27     9.09     0.00    32.00     0.13     0.39    13.47
MAPP  CGCOU1111262050210 01                     11.      80.     83.5     7.81
 1.54     0.75     9.35     0.00    32.00     0.35     1.10    13.73
MAPP  CGCOU1111262050710 01                      1.       7.     83.5     8.85
 1.54     0.08    10.39     0.00    32.00     0.03     0.11    14.77
UPNY  CGCOU0131022050710 01                     80.     585.     83.5    11.05
 1.54     7.37    12.59     0.00    11.70     0.94     8.31    14.19
NENG  CGCOU0931012050710 01                     76.     556.     83.5    13.51
 1.54     8.37    15.05     0.00    16.70     1.27     9.64    17.34
FRCCFLCGCOU1541132050710 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    12.70     0.00     0.00     0.00
VACA  CGCOU0631102050710 01                     35.     256.     83.5    10.54
 1.54     3.09    12.08     0.00    11.70     0.41     3.50    13.67
VACANCCGCOU0611102050310 01                     65.     475.     83.5    11.69
 1.54     6.29    13.23     0.00    22.40     1.46     7.75    16.30
VACANCCGCOU0611102050710 01                     21.     154.     83.5    12.06
 1.54     2.09    13.60     0.00    28.70     0.60     2.69    17.53
VACANCCGCOU0631102050310 01                    135.     987.     83.5    11.69
 1.54    13.07    13.23     0.00    22.40     3.02    16.09    16.30
VACANCCGCOU0631102050710 01                    161.    1178.     83.5    11.69
 1.54    15.58    13.23     0.00    18.60     2.99    18.58    15.78
VACAVACGCOU0311092050310 01                     49.     358.     83.5    11.98
 1.54     4.85    13.52     0.00    22.40     1.10     5.94    16.58
VACAVACGCOU0331092050710 01                    363.    2655.     83.5    10.93
 1.54    33.12    12.47     0.00    11.70     4.25    37.37    14.07
VACAVACGCOU0341092050710 01                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    11.70     0.00     0.00     0.00
SOU   CGCOU0611112050710 01                      1.       7.     83.5    11.69
 1.54     0.10    13.23     0.00    19.60     0.02     0.12    15.91
SPPS  CGCOU3641282050710 01                    307.    2246.     83.5     6.97
 1.54    19.12     8.51     0.00    16.70     5.13    24.24    10.80
CALI  CGCOU0811372050710 01                     68.     497.     83.5     6.49
 1.54     3.99     8.03     0.00    20.50     1.39     5.39    10.83
CALI  CGCOU0831372050710 01                    153.    1119.     83.5     6.29
 1.54     8.76     7.83     0.00    16.70     2.56    11.31    10.11
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Total Annual Costs
Year: 2020

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 1.03     0.21    28.53     0.00     2.80     0.02     0.22    30.84
MACE  CGCT 0112   000000 00                   13.      16.     13.8    31.18
 1.03     0.51    32.21     0.00     7.80     0.10     0.61    38.64
MACE  CGCT 0122   000000 00                  170.     127.      8.5    34.98
 1.03     4.58    36.01     0.00     2.80     0.48     5.06    39.75
MACE  CGCT 0222   000000 00                   88.      66.      8.5    34.98
 1.03     2.37    36.01     0.00     2.80     0.25     2.62    39.75
MACW  CGCT 0212   000000 00                   33.      25.      8.5    32.37
 1.03     0.83    33.40     0.00     7.80     0.26     1.08    43.82
MACW  CGCT 0222   000000 00                  145.      25.      2.0    35.05
 1.03     0.90    36.08     0.00     2.80     0.41     1.31    52.34
MANO  CGCT 0412   000000 00                    8.       6.      8.5    31.04
 1.03     0.19    32.07     0.00     2.80     0.02     0.21    35.81
MAPP  CGCT 1112   000000 00                   31.      23.      8.5    29.04
 1.03     0.70    30.07     0.00     2.80     0.09     0.78    33.81
UPNY  CGCT 0112   000000 00                   13.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.04     0.04     0.00
UPNY  CGCT 0122   000000 00                  145.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     2.80     0.41     0.41     0.00
NYC   CGCT 0112   000000 00                    2.       1.      8.5    34.50
 1.03     0.05    35.53     0.00     2.80     0.01     0.06    39.27
LILC  CGCT 0111   000000 00                    1.       4.     41.5    29.14
 1.03     0.11    30.17     0.00     7.80     0.01     0.12    32.31
LILC  CGCT 0112   000000 00                   15.      18.     13.8    32.97
 1.03     0.62    34.00     0.00     2.80     0.04     0.66    36.31
NENG  CGCT 0912   000000 00                    7.       8.     13.8    32.50
 1.03     0.28    33.53     0.00     2.80     0.02     0.30    35.84
NENG  CGCT 0922   000000 00                  346.     127.      4.2    35.94
 1.03     4.68    36.97     0.00     2.80     0.97     5.65    44.62
NENGCTCGCT 3112   000000 00                    3.       4.     13.8    31.42
 1.03     0.12    32.45     0.00     7.80     0.02     0.14    38.88
NENGNHCGCT 3012   000000 00                    5.       4.      8.5    35.56
 1.03     0.14    36.59     0.00     2.80     0.01     0.15    40.33
FRCCFLCGCT 1512   000000 00                   27.      48.     20.4    32.67
 1.03     1.63    33.70     0.00     2.80     0.08     1.70    35.27
FRCCFLCGCT 1522   000000 00                  336.     136.      4.6    35.68
 1.03     4.98    36.71     0.00     2.80     0.94     5.92    43.65
VACANCCGCT 0612   000000 00                    2.       1.      5.9    31.63
 1.03     0.03    32.66     0.00     2.80     0.01     0.04    38.07
VACAVACGCT 0311   000000 00                    7.      16.     25.7    27.73
 1.03     0.45    28.76     0.00     2.80     0.02     0.47    30.01
VACAVACGCT 0312   000000 00                   11.       6.      5.9    34.11
 1.03     0.20    35.14     0.00     2.80     0.03     0.23    40.55
TVA   CGCT 0622   000000 00                  308.      53.      2.0    32.33
 1.03     1.77    33.36     0.00     2.80     0.86     2.63    49.62
SOU   CGCT 0612   000000 00                    4.       3.      8.5    29.25
 1.03     0.09    30.28     0.00     8.80     0.04     0.13    42.03
SOU MSCGCT 1622   000000 00                   70.      52.      8.5    28.96
 1.03     1.57    29.99     0.00     2.80     0.20     1.77    33.73
ENTG  CGCT 1012   000000 00                   12.       6.      5.9    28.07
 1.03     0.18    29.10     0.00     2.80     0.03     0.21    34.51
ENTG  CGCT 1022   000000 00                  751.     129.      2.0    32.12
 1.03     4.29    33.15     0.00     2.80     2.10     6.39    49.41
ENTGTXCGCT 2712   000000 00                    1.       1.      5.9    28.99
 1.03     0.02    30.02     0.00     2.80     0.00     0.02    35.43
ENTGTXCGCT 2722   000000 00                   75.      13.      2.0    32.12
 1.03     0.43    33.15     0.00     2.80     0.21     0.64    49.41
SPPN  CGCT 1712   000000 00                   15.       8.      5.9    29.84
 1.03     0.24    30.87     0.00     2.80     0.04     0.28    36.28
SPPS  CGCT 1012   000000 00                    4.       3.      8.5    29.17
 1.03     0.09    30.20     0.00     2.80     0.01     0.10    33.94
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.725
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ERCTTXCGCC 2322   000000 00                  1513.    6952.     52.5    21.06
 1.03   153.55    22.09     0.00    13.90    21.03   174.58     25.11
ERCTTXCGCC 2323   000000 00                   246.     182.      8.4    28.96
 1.03     5.45    29.99     0.00    18.90     4.65    10.10     55.58
ERCTTXCGCC 2711   000000 00                    81.     641.     90.4    15.24
 1.03    10.44    16.27     0.00    13.90     1.13    11.57     18.03
ERCTTXCGCC 2722   000000 00                   782.    3593.     52.5    21.86
 1.03    82.26    22.89     0.00    13.90    10.87    93.13     25.92
ERCTTXCGCC 3513   000000 00                    77.      57.      8.4    29.09
 1.03     1.71    30.12     0.00    19.90     1.53     3.25     57.06
ERCTTXCGCC 3523   000000 00                   217.     160.      8.4    27.68
 1.03     4.60    28.71     0.00    19.90     4.32     8.92     55.65
MACE  CGCC 0111   000000 00                    21.     148.     80.6    21.45
 1.03     3.33    22.48     0.00    18.90     0.40     3.73     25.16
MACE  CGCC 0112   000000 00                    16.      35.     25.3    26.42
 1.03     0.97    27.45     0.00    18.90     0.30     1.28     35.97
MACE  CGCC 0113   000000 00                    76.      90.     13.6    30.24
 1.03     2.82    31.27     0.00    18.90     1.44     4.26     47.20
MACE  CGCC 0121   000000 00                    41.     289.     80.6    21.52
 1.03     6.53    22.55     0.00    13.90     0.57     7.10     24.52
MACE  CGCC 0122   000000 00                  1517.    5405.     40.7    25.92
 1.03   145.68    26.95     0.00    13.90    21.09   166.76     30.85
MACE  CGCC 0123   000000 00                   628.     633.     11.5    30.73
 1.03    20.09    31.76     0.00    19.20    12.06    32.14     50.82
MACE  CGCC 0221   000000 00                   188.    1489.     90.4    18.41
 1.03    28.95    19.44     0.00    13.90     2.61    31.56     21.20
MACE  CGCC 0222   000000 00                   725.    4306.     67.8    24.26
 1.03   108.92    25.29     0.00    13.90    10.08   119.00     27.63
MACW  CGCC 0213   000000 00                    80.      59.      8.4    30.26
 1.03     1.85    31.29     0.00    18.90     1.51     3.36     56.87
MACW  CGCC 0223   000000 00                   206.     152.      8.4    30.23
 1.03     4.76    31.26     0.00    18.90     3.89     8.65     56.84
MACS  CGCC 0223   000000 00                   277.     205.      8.4    31.52
 1.03     6.66    32.55     0.00    13.90     3.85    10.51     51.36
MANO  CGCC 0412   000000 00                     7.      25.     40.7    22.60
 1.03     0.59    23.63     0.00    13.90     0.10     0.69     27.54
MANO  CGCC 0413   000000 00                     1.       1.     13.6    28.17
 1.03     0.03    29.20     0.00    19.90     0.02     0.05     45.96
MANO  CGCC 0422   000000 00                    40.     143.     40.7    22.60
 1.03     3.37    23.63     0.00    13.90     0.56     3.92     27.54
UPNY  CGCC 0112   000000 00                   139.     539.     44.2    26.43
 1.03    14.80    27.46     0.00    13.90     1.93    16.73     31.05
UPNY  CGCC 0113   000000 00                   153.     182.     13.6    29.10
 1.03     5.47    30.13     0.00    19.00     2.91     8.38     46.14
UPNY  CGCC 0122   000000 00                  1566.    9302.     67.8    24.87
 1.03   240.90    25.90     0.00    13.90    21.77   262.67     28.24
UPNY  CGCC 0123   000000 00                   877.     415.      5.4    29.39
 1.03    12.63    30.42     0.00    13.90    12.19    24.82     59.78
DSNY  CGCC 0113   000000 00                    35.      42.     13.6    30.36
 1.03     1.30    31.39     0.00    13.90     0.49     1.79     43.10
DSNY  CGCC 0123   000000 00                   487.     578.     13.6    30.68
 1.03    18.33    31.71     0.00    13.90     6.77    25.10     43.42
NYC   CGCC 0112   000000 00                    15.      33.     25.3    31.03
 1.03     1.07    32.06     0.00    13.90     0.21     1.28     38.33
NYC   CGCC 0113   000000 00                    46.     102.     25.3    32.26
 1.03     3.40    33.29     0.00    19.10     0.88     4.28     41.90
LILC  CGCC 0112   000000 00                    13.     103.     90.4    25.12
 1.03     2.69    26.15     0.00    13.90     0.18     2.87     27.90
LILC  CGCC 0113   000000 00                    61.      72.     13.6    33.85
 1.03     2.53    34.88     0.00    18.90     1.15     3.68     50.80
LILC  CGCC 0122   000000 00                    43.     255.     67.8    25.12
 1.03     6.68    26.15     0.00    13.90     0.60     7.28     28.49
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.726
Total Annual Costs
Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| NENG | CGCC | 0113 | 000000 | 00 | | | | | | | 13. | 15. | 13.6 | 30.78 | | | | | |
| 1.03 | 0.49 | 31.81 | 0.00 | 18.90 | | | | | | | 0.25 | 0.74 | 47.73 | | | | | | |
| NENG | CGCC | 0122 | 000000 | 00 | | | | | | | 661. | 1378. | 23.8 | 26.35 | | | | | |
| 1.03 | 37.74 | 27.38 | 0.00 | 13.90 | | | | | | | 9.19 | 46.93 | 34.05 | | | | | | |
| NENG | CGCC | 0123 | 000000 | 00 | | | | | | | 132. | 157. | 13.6 | 31.52 | | | | | |
| 1.03 | 5.10 | 32.55 | 0.00 | 18.90 | | | | | | | 2.49 | 7.59 | 48.47 | | | | | | |
| NENGCT | CGCC | 3112 | 000000 | 00 | | | | | | | 13. | 46. | 40.7 | 26.81 | | | | | |
| 1.03 | 1.29 | 27.84 | 0.00 | 18.90 | | | | | | | 0.25 | 1.54 | 33.15 | | | | | | |
| NENGCT | CGCC | 3113 | 000000 | 00 | | | | | | | 1. | 1. | 13.6 | 30.78 | | | | | |
| 1.03 | 0.04 | 31.81 | 0.00 | 19.90 | | | | | | | 0.02 | 0.06 | 48.58 | | | | | | |
| NENGCT | CGCC | 3122 | 000000 | 00 | | | | | | | 32. | 38. | 13.6 | 26.81 | | | | | |
| 1.13 | 1.06 | 27.94 | 6.60 | 20.60 | | | | | | | 0.87 | 1.93 | 50.86 | | | | | | |
| NENGCT | CGCC | 3123 | 000000 | 00 | | | | | | | 73. | 87. | 13.6 | 32.66 | | | | | |
| 1.13 | 2.93 | 33.79 | 6.36 | 21.50 | | | | | | | 2.03 | 4.96 | 57.26 | | | | | | |
| FRCCFL | CGCC | 1513 | 000000 | 00 | | | | | | | 18. | 40. | 25.3 | 31.70 | | | | | |
| 1.03 | 1.31 | 32.73 | 0.00 | 13.90 | | | | | | | 0.25 | 1.56 | 39.00 | | | | | | |
| FRCCFL | CGCC | 1522 | 000000 | 00 | | | | | | | 437. | 970. | 25.3 | 26.14 | | | | | |
| 1.03 | 26.34 | 27.17 | 0.00 | 13.90 | | | | | | | 6.07 | 32.42 | 33.43 | | | | | | |
| FRCCFL | CGCC | 1523 | 000000 | 00 | | | | | | | 454. | 804. | 20.2 | 31.44 | | | | | |
| 1.03 | 26.10 | 32.47 | 0.00 | 13.90 | | | | | | | 6.31 | 32.41 | 40.32 | | | | | | |
| VACA | CGCC | 0622 | 000000 | 00 | | | | | | | 1000. | 4908. | 56.0 | 24.94 | | | | | |
| 1.03 | 127.45 | 25.97 | 0.00 | 13.90 | | | | | | | 13.90 | 141.35 | 28.80 | | | | | | |
| VACA | CGCC | 0623 | 000000 | 00 | | | | | | | 111. | 57. | 5.9 | 31.64 | | | | | |
| 1.03 | 1.87 | 32.67 | 0.00 | 13.90 | | | | | | | 1.54 | 3.41 | 59.66 | | | | | | |
| VACANC | CGCC | 0623 | 000000 | 00 | | | | | | | 162. | 83. | 5.9 | 31.95 | | | | | |
| 1.03 | 2.75 | 32.98 | 0.00 | 18.90 | | | | | | | 3.06 | 5.81 | 69.69 | | | | | | |
| VACAVAC | GCC | 0322 | 000000 | 00 | | | | | | | 288. | 2033. | 80.6 | 23.79 | | | | | |
| 1.03 | 50.47 | 24.82 | 0.00 | 18.90 | | | | | | | 5.44 | 55.91 | 27.50 | | | | | | |
| VACAVAC | GCC | 0323 | 000000 | 00 | | | | | | | 91. | 47. | 5.9 | 32.66 | | | | | |
| 1.03 | 1.58 | 33.69 | 0.00 | 18.90 | | | | | | | 1.72 | 3.30 | 70.40 | | | | | | |
| TVA | CGCC | 0622 | 000000 | 00 | | | | | | | 1290. | 8370. | 74.1 | 22.19 | | | | | |
| 1.03 | 194.32 | 23.22 | 0.00 | 13.90 | | | | | | | 17.93 | 212.25 | 25.36 | | | | | | |
| SOU | CGCC | 0612 | 000000 | 00 | | | | | | | 5. | 11. | 25.3 | 25.81 | | | | | |
| 1.03 | 0.30 | 26.84 | 0.00 | 13.90 | | | | | | | 0.07 | 0.37 | 33.11 | | | | | | |
| SOU | CGCC | 0622 | 000000 | 00 | | | | | | | 1604. | 9527. | 67.8 | 22.47 | | | | | |
| 1.03 | 223.92 | 23.50 | 0.00 | 13.90 | | | | | | | 22.30 | 246.22 | 25.84 | | | | | | |
| SOU FL | CGCC | 1522 | 000000 | 00 | | | | | | | 240. | 1901. | 90.4 | 22.00 | | | | | |
| 1.03 | 43.77 | 23.03 | 0.00 | 13.90 | | | | | | | 3.34 | 47.11 | 24.79 | | | | | | |
| ENTG | CGCC | 1012 | 000000 | 00 | | | | | | | 52. | 92. | 20.2 | 22.67 | | | | | |
| 1.03 | 2.18 | 23.70 | 0.00 | 13.90 | | | | | | | 0.72 | 2.90 | 31.55 | | | | | | |
| ENTG | CGCC | 1013 | 000000 | 00 | | | | | | | 13. | 7. | 5.9 | 27.52 | | | | | |
| 1.03 | 0.19 | 28.55 | 0.00 | 19.50 | | | | | | | 0.25 | 0.44 | 66.42 | | | | | | |
| ENTG | CGCC | 1022 | 000000 | 00 | | | | | | | 1891. | 10955. | 66.1 | 22.04 | | | | | |
| 1.03 | 252.78 | 23.07 | 0.00 | 13.90 | | | | | | | 26.28 | 279.06 | 25.47 | | | | | | |
| ENTGTX | CGCC | 1912 | 000000 | 00 | | | | | | | 6. | 0. | N/A | 0.00 | | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 13.90 | | | | | | | 0.08 | 0.08 | 0.00 | | | | | | |
| ENTGTX | CGCC | 1921 | 000000 | 00 | | | | | | | 440. | 645. | 16.7 | 16.03 | | | | | |
| 1.03 | 11.00 | 17.06 | 0.00 | 19.90 | | | | | | | 8.76 | 19.75 | 30.64 | | | | | | |

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ENTGTXCGCC 1922   000000 00                    353.     579.     18.7    22.04
 1.03    13.35    23.07     0.00    13.90     4.91    18.26    31.55
ENTGTXCGCC 2712   000000 00                     25.     198.     90.4    22.04
 1.03     4.57    23.07     0.00    13.90     0.35     4.92    24.83
ENTGTXCGCC 2722   000000 00                    513.    2048.     45.6    22.04
 1.03    47.24    23.07     0.00    13.90     7.13    54.37    26.56
SPPS  CGCC 1022   000000 00                    448.    3267.     83.3    20.63
 1.03    70.76    21.66     0.00    13.90     6.23    76.99    23.56
SPPS  CGCC 3622   000000 00                    450.    3564.     90.4    20.63
 1.03    77.20    21.66     0.00    13.90     6.25    83.46    23.42
SPPS  CGCC 3623   000000 00                    108.      80.      8.4    27.26
 1.03     2.26    28.29     0.00    18.90     2.04     4.30    53.88
CALI  CGCC 0811   000000 00                      1.       8.     90.4    20.37
 1.03     0.17    21.40     0.00    13.90     0.01     0.18    23.15
CALI  CGCC 0812   000000 00                    213.    1504.     80.6    25.68
 1.03    40.17    26.71     0.00    19.20     4.09    44.26    29.43
CALI  CGCC 0813   000000 00                    319.    1237.     44.2    29.59
 1.03    37.87    30.62     0.00    19.50     6.22    44.09    35.65
CALI  CGCC 0822   000000 00                   2938.   20922.     81.3    23.60
 1.03   515.30    24.63     0.00    13.90    40.84   556.14    26.58
CALI  CGCC 0823   000000 00                    840.    3256.     44.2    29.69
 1.03   100.02    30.72     0.00    19.60    16.46   116.49    35.77
PNW   CGCC 0722   000000 00                    165.    1307.     90.4    18.49
 1.03    25.50    19.52     0.00    13.90     2.29    27.80    21.27
PNW   CGCC 0723   000000 00                    123.     974.     90.4    25.18
 1.03    25.53    26.21     0.00    13.90     1.71    27.24    27.96
PNW   CGCC 0812   000000 00                     13.     103.     90.4    19.85
 1.03     2.15    20.88     0.00    13.90     0.18     2.33    22.63
PNW   CGCC 0822   000000 00                    820.    6494.     90.4    19.54
 1.03   133.55    20.57     0.00    13.90    11.40   144.95    22.32
AZNM  CGCC 0812   000000 00                     73.     358.     56.0    23.36
 1.03     8.74    24.39     0.00    13.90     1.01     9.75    27.22
AZNM  CGCC 0813   000000 00                    102.     358.     40.0    25.80
 1.03     9.60    26.83     0.00    13.90     1.42    11.01    30.79
AZNM  CGCC 0822   000000 00                   1190.    7068.     67.8    21.02
 1.03   155.89    22.05     0.00    13.90    16.54   172.43    24.39
AZNM  CGCC 0823   000000 00                    113.     200.     20.2    26.13
 1.03     5.43    27.16     0.00    13.90     1.57     7.00    35.01
RMPA  CGCC 0812   000000 00                     55.     213.     44.2    23.21
 1.03     5.17    24.24     0.00    18.90     1.04     6.21    29.12
RMPA  CGCC 0813   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.90     0.00     0.00     0.00
RMPA  CGCC 0822   000000 00                    144.     558.     44.2    22.53
 1.03    13.15    23.56     0.00    13.90     2.00    15.15    27.15
RMPA  CGCC 0823   000000 00                      0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    14.10     0.00     0.00     0.00
NWPE  CGCC 0811   000000 00                     10.      79.     90.4    15.80
 1.03     1.33    16.83     0.00    13.90     0.14     1.47    18.59
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Cgn_Gas                       23           42570.  160555.     43.1    23.48
 1.03  3934.70    24.51     0.02    12.96   552.55  4487.24    27.95

ERCTTXCGGAU1811   000000 00                      2.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    19.70     0.04     0.04     0.00
MACE  CGGAU0221   000000 00                     55.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    21.40     1.18     1.18     0.00
MANO  CGGAU0411   000000 00                     16.       0.      N/A     0.00
 0.00     0.00     0.00     0.00    10.70     0.17     0.17     0.00
FRCCFLCGGAU1511   000000 00                     16.      29.     20.9    28.32
 2.57     0.90    30.89     0.00    16.70     0.27     1.17    40.02
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Total Annual Costs
Year: 2020

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capacity Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
TVA CGGAU0611 000000 00 12. 0. N/A 0.00 0.00 0.00 0.00 0.00 19.70 0.24 0.24 0.00
ENTG CGGAU1011 000000 00 1. 0. N/A 0.00 0.00 0.00 0.00 0.00 19.70 0.02 0.02 0.00
NENG CGHSC2821 000000 00 528. 0. N/A 0.00 0.00 0.00 0.00 0.00 20.00 10.57 10.57 0.00
CALI CGLSN0821 000000 00 430. 2864. 76.0 23.35 3.02 75.54 26.37 0.00 21.60 9.29 84.83 29.61
Cgn_Oil 24 1060. 2894. 31.2 23.40 3.02 76.44 26.42 0.00 20.53 21.76 98.21 33.94

MECS CGBIO00 42 000000 00 19. 146. 87.7 5.89 5.36 1.64 11.25 0.00 44.80 0.85 2.49 17.08
ECAO CGBIO00 42 000000 00 6. 46. 87.7 5.89 5.36 0.52 11.25 0.00 44.80 0.27 0.79 17.08
MACW CGBIO00 44 000000 00 11. 85. 87.7 5.28 5.36 0.90 10.64 0.00 44.80 0.49 1.39 16.47
NENG CGBIO00 48 000000 00 72. 421. 66.7 21.21 5.36 11.17 26.57 0.00 44.80 3.23 14.40 34.24
FRCC CGBIO00 49 000000 00 61. 469. 87.7 5.64 5.36 5.15 11.00 0.00 44.80 2.73 7.89 16.83
VACA CGBIO00 50 000000 00 34. 261. 87.7 5.64 5.36 2.87 11.00 0.00 44.80 1.52 4.40 16.83
SOU CGBIO00 50 000000 00 5. 38. 87.7 5.64 5.36 0.42 11.00 0.00 44.80 0.22 0.65 16.83
ENTG CGBIO00 51 000000 00 8. 61. 87.7 5.64 5.36 0.68 11.00 0.00 44.80 0.36 1.03 16.83
SPPS CGBIO00 51 000000 00 2. 15. 87.7 5.64 5.36 0.17 11.00 0.00 44.80 0.09 0.26 16.83
CALI CGBIO00 54 000000 00 74. 569. 87.7 18.09 5.36 13.33 23.45 0.00 44.80 3.32 16.65 29.29
PNW CGBIO00 52 000000 00 96. 738. 87.7 8.71 5.36 10.38 14.07 0.00 44.80 4.30 14.68 19.90
RMPA CGBIO00 53 000000 00 7. 54. 87.7 9.93 5.36 0.82 15.29 0.00 44.80 0.31 1.14 21.12
ERCTTXCGFWT192 000000 00 162. 357. 25.2 0.00 0.00 0.00 0.00 0.00 103.60 16.78 16.78 46.98
ENTG CGFWT102 000000 00 170. 1340. 90.0 0.00 0.00 0.00 0.00 0.00 103.60 17.61 17.61 13.14
CALI CGFWT082 000000 00 29. 229. 90.0 0.00 0.00 0.00 0.00 0.00 103.60 3.00 3.00 13.14
MECS CGOTH00 000000 00 54. 415. 87.7 0.00 0.00 0.00 0.00 0.00 103.60 5.59 5.59 13.48
ERCT CGOTH00 000000 00 1. 8. 87.7 0.00 0.00 0.00 0.00 0.00 103.60 0.10 0.10 13.48
MACW CGOTH00 000000 00 25. 192. 87.7 0.00
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 0.00     0.00     0.00     0.00   103.60     2.59     2.59    13.48
MACS  CGOTH00     000000 00                    54.     415.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     5.59     5.59    13.48
MAPP  CGOTH00     000000 00                     2.      15.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     0.21     0.21    13.48
UPNY  CGOTH00     000000 00                    44.     338.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     4.56     4.56    13.48
DSNY  CGOTH00     000000 00                     7.      54.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     0.73     0.73    13.48
NENG  CGOTH00     000000 00                    27.     207.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     2.80     2.80    13.48
FRCC  CGOTH00     000000 00                    22.     169.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     2.28     2.28    13.48
VACA  CGOTH00     000000 00                    10.      77.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.48
SPPS  CGOTH00     000000 00                    34.     261.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     3.52     3.52    13.48
CALI  CGOTH00     000000 00                    29.     223.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     3.00     3.00    13.48
NWPE  CGOTH00     000000 00                    10.      77.     87.7     0.00
 0.00     0.00     0.00     0.00   103.60     1.04     1.04    13.48
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Cgn_Other                      25            1075.    7279.     77.3     4.47
 2.14    48.06     6.60     0.00    81.99    88.14   136.20    18.71

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NonCG IPP_Coal                 26               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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NonCG IPP_Gas                  27               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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NonCG IPP_Other                28               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Coal                       29               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Gas                        30               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Blr_Oil                        31               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1311162040310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1311162050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANOMOTCOLU0511282050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0711312050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111261040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111271040210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111261040310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111252020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1111262050710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131272020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131252020210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020310 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311161010710 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311162020110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPWITCOLU1311162040210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022050110 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022020210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0111022050210 01     CC01            0.        0.       N/A     0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Total Annual Costs

Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| | | | | | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| UPNY | TCOLU0131022020110 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NENG | TCOLU0911012050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| FRCCFL | TCOLU1531132020110 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACA | TCOLU0631041050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACA | TCOLU0631102050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACANCT | COLU0631102020110 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACANCT | COLU0631102020210 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| VACAVAT | COLU0331092050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | TCOLU1731281020310 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPN | TCOLU1731282020110 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPNMOT | COLU0511252050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPNMOT | COLU0511272050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| SPPSTX | TCOLU3531292050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| CALI | TCOLU0811372050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| CALI | TCOLU0832372050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TCOLU0811351020710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TCOLU0811402050110 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TCOLU0811342050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TCOLU0811352050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| RMPA | TCOLU0831331020310 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | TCOLU0811332050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NWPE | TCOLU0831332050710 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| UPNY | TCOLN0131022020102 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |
| NENGNHT | COLN2931012020102 | 01 | CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | |

```
ECAO  TCOLS0231411020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0611182020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLS1111252020203 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411181020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411182020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0611191020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOMDTOLBU0231082020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0232032050110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1312162020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2020

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | Total | | Capital | | FOM | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | mill/kWh | | |
| | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MANO | TOLBU0432192010210 | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANOMOTOLBU0532281010110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPP | TOLBU1141252020110 | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPPMOTOLBU0512282020110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MAPPMOTOLBU0532281010110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANCTOLBU0632101020210 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACANCTOLBU0632102020110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVATOLBU0332092020110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| VACAVATOLBU0332092020210 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TOLBU1732282020110 | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPN | TOLBU1742282020110 | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0511281020110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0531281010110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0531281020110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0531282020110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLBU0532281010110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAOOHTOLBS0432142020304 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| WUMSWITOLBS1312162030304 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TOLBS0432191010103 | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| MANO | TOLBS0432192010203 | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| SPPNMOTOLSU0542281010110 | | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | TOLSU0812321020110 | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| ECAO | TRRBU0432042020110 | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |
| RMPA | TRRBS0832342030304 | 01 | | | | | CC01 | | | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | |

ECAO TSABU0441201020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSABC2941011010101 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSABN0241032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABS0241032020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020303 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020303 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPS | TSASU3641282020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TSASU3541292020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TSASU3541292020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSASU0832342020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSASU0841342020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0742322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0841322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSASU0842322020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS | TSBBU0441392020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0632061020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0632062020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSBBU0641062020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINT | SBBU0441182020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SBBU0431042020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SBBU0441041020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHT | SBBU0441042020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILT | SBBU0441181010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1112271020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1112272040210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1131262020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1131262020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSBBU1132271040110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNET | SBBU1432282020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNET | SBBU1441282010310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPPNETSBBU1442282010310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSBBU0812341020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241042020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0231032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0241032020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSBBN0141031010102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBN0641102020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341091020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341092020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBN0341092020202 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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WUMSWITSCSU1341162020510 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1142252020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSCSU1342162020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSDBU0241081020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     CC01         152.    1204.     90.4    23.78
 1.95    30.98    25.73    64.89    11.70    11.64    42.62    35.40
NENG  TSDBN2841012020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSEBU0442142020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0232032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0241032020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBU1141252020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0632232020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBC0241072020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBC0641102020401 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSEBC0641221010101 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBN0441142020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBN2842012020102 01 CC01 | 61. | 483. | 90.4 | 23.78 | 1.95 | 12.43 | 25.73 | 64.89 | 11.70 | 4.67 | 17.10 | 35.40 |
| ECAOOHTSEBS0431141010103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBS1142252020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSEBS1541132020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312010110 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312020110 02 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MANO TSESU0441172010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0511271040310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0511272020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| | | |

WUMSWITSHBU1332162010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 CC01 0. 0. N/A 0.00
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MECS TSIBU0441392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 CC01 0. 0. N/A 0.00
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ECAO TSISU0441171010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 CC01 0. 0. N/A 0.00
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MAPPWITSISU1341392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391020710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391050710 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOINTSKBU0432182020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS TSKBU0411391020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0632102020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBU0641102020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSKSU1141261010110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSLBU0432152020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSLBU0441152020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0231052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0232052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0241052020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0411141020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0411141050710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0412141020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0432141020210 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBU0632182020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACENJTSLBU0112032020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSLBU1341392020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSLBU1112261020710 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSLBU1412281020310 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSLBU0531281020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHTSLBN2932012020102 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSLSU0641222020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSLSU0712261020110 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSUBS0541272020103 01 CC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AZNM TSUBS0841361020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0441142020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 CC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.736
Total Annual Costs
Year: 2020

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AZNM  TSXSS0842352020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSXSS0832402020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0742322020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBU0432191010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0432192020204 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0441192020103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBS0441191010103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741282020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBA0441192020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1741282020304 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0431192020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0432192010210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBS0431142010103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBS1541121020103 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0841322020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0842322020104 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CGCOU0431392050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOU0231412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOU0411142050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0211412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0211412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0231412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0232412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICGCOU1211162050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICGCOU1311162050710 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGCOU1111262050210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2020

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MACW  CGCOD0231412050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSXBA0141022020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSXBA1541122020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSXBA1541132020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSXBA0641101020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSXBA0642101020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSXBA0641222020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSXBA0641222020705 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSASS0732312020703 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASS0841342020303 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBA0341092020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSABA1541132020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBA1541122020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLA0411182020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLA0831402020105 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.738
Total Annual Costs
Year: 2020

| Unit | Name | | | | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSBBS0441041020304 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSS0542282020103 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBC0641212020201 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSO1332392020102 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSFBN0131022020102 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACSMDTSHBO0241081010302 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBO0632102020202 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSJBO0412392020202 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBO0632102020202 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBE0232041020207 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBE0242041020207 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSZBD0241032020707 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TCOLC0141012050301 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TCOLE0411391030308 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TCOLD0431182050307 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATCOLD0331092050308 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSDBD2831012020107 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSGSC0441201020101 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSIBC0441041020101 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSVBA0641201010105 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSVBA0441182020105 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSLSC0641222020101 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSDBA0141011020206 | 01 | CC01 | | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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SPPNMOTSUBU0541272020110 01     CC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Rep.Coal-CC                   34             213.    1687.     90.4    23.78
 1.95    43.41    25.73    64.89    11.70    16.31    59.72    35.40

MECS  STGAU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2711   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0111   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0121   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  STGAU0412   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1311   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1321   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOSTGAU0511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  STGAU1111   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  STGAU1112   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.739
Total Annual Costs
Year: 2020

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | STGAU1121 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMO | STGAU0511 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STGAU1411 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWI | STGAU1311 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | STGAU0121 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC | STGAU0121 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC | STGAU0121 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0111 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0121 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0911 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0921 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STGAU3221 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STGAU1511 | 000000 | 00 | OC01 | 174. | 1378. | 90.4 | 23.17 | 1.95 | 34.62 | 25.12 | 48.12 |
| FRCCFL | STGAU1521 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | STGAU0621 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STGAU0611 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STGAU0621 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STGAU1621 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STGAU1011 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STGAU1021 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STGAU1611 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STGAU1711 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STGAU1721 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STGAU0511 | 000000 | 00 | OC01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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SPPNMOSTGAU0521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1011   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3611   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTGAU1611   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU3511   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAU0811   000000 00     OC01          80.     634.     90.4    22.32
 1.95    15.38    24.27    62.57    11.70     5.94    21.32    33.65
CALI  STGAU0821   000000 00     OC01         144.    1139.     90.4    22.32
 1.95    27.65    24.27    62.57    11.70    10.68    38.33    33.65
AZNM  STGAU0811   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  STGAU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0811   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  STGAU0822   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0411   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0422   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU1821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2321   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2421   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0112   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0121   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0211   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0222   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.740
Total Annual Costs
Year: 2020

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CALI STHSU0821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSN0121 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSN3221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2212 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2222 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2321 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2322 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2422 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2511 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2512 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2522 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3521 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3522 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0121 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0122 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0221 000000 00 OC01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.741
Total Annual Costs
Year: 2020

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FRCCFLSTLSU1521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLSTLSU1522   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0321   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0322   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1622   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1022   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0512   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0822   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1011   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1012   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1022   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3612   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3621   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3622   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTLSU1612   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2221   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2222   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2522   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU3522   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0822   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   STLSU0721   000000 00     OC01          94.     744.     90.4    18.49
 1.95    15.22    20.44    58.95    11.70     6.64    21.86    29.36
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.742
Total Annual Costs
Year: 2020

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ERCTTXSTHSO2521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO3521   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2021   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2022   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STLSO0922   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STGAO0111   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAC0821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STHSD2821   000000 00     OC01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Rep.O/G-CC                    35            7854.   62204.     90.4    22.69
 1.95  1532.99    24.64    56.75    11.70   537.60  2070.59    33.29

MECS  TCOLU0411392050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431152020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431392020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0211412050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0231082020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0411181050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0411142050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431041020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431141020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431142020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431182020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431192020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0431042050710 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0611062020210 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0631051020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0631202020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATCOLU0331062020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0211412050210 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0231031020310 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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MAPPWITCOLU1311162040210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0131022020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TCOLU0911012050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTCOLU1531132020110 01 CG02 0. 0. N/A 0.00
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VACA TCOLU0631041050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATCOLU0331092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731281020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLU0511252050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLU0511272050710 01 CG02 0. 0. N/A 0.00
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SPPSTXTCOLU3531292050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0811372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0832372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811351020710 01 CG02 0. 0. N/A 0.00
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RMPA TCOLU0811402050110 01 CG02 0. 0. N/A 0.00
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RMPA TCOLU0811342050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0811352050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0811332050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLN0131022020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTCOLN2931012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0231411020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0611182020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLS0631041050303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.744
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MACW TOLBU0231032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0232032050110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBU1311161020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBU1312162020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TOLBU1141252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0512282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
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VACANCTOLBU0632101020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1732282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TOLBU1742282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0511281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTOLBS0432142020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITOLBS1312162030304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBS0432191010103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBS0432192010203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TOLSU0812321020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TRRBS0832342030304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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ERCTTXTSASU2341292020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 CG02 0. 0. N/A 0.00
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MAPPWITSASU1332162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0841342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112271020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112272040210 01 CG02 0. 0. N/A 0.00
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MAPP TSBBU1131262020110 01 CG02 0. 0. N/A 0.00
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MAPP TSBBU1131262020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

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MAPPNETSBSU1432282020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSCBU0131032020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSCBU0231032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1131272010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1131252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCBU1132252020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0131022020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0631102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1731282010310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732281010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0832342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSCBN0241032020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSO0441182010102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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MAPP TSDSU1132252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 CG02 0. 0. N/A 0.00
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MACWPATSEBU0232032020110 01 CG02 0. 0. N/A 0.00
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MACWPATSEBU0241032020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBC0241072020101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBC0641102020101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBC0641102020401 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSEBC0641221010101 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBS0431141010103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBS1142252020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSEBS1541132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 CG02 0. 0. N/A 0.00
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MANO TSESU0441172010110 01 CG02 0. 0. N/A 0.00
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MANO TSESU0441172020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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MAPP TSGBU1132271010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSGBU0511271020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBS1231392020104 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBS0412191020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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MECS TSKBU0412391020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSKBU0441042020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSKBU0411391020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0632102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0432152020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0231052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0232052020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 CG02 0. 0. N/A 0.00
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ECAO TSLBU0411141020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0411141050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0412141020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0432141020210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0632182020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSLBU0112032020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSLBU1112261020710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSLBU1412281020310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSLBU0531281020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSLBN2932012020102 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSLSU0712261020110 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| | | |

UPNY TSXBS0141022020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841402020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841362020304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBD0241041020207 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSXBD0141031010107 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSXBD0341092020307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302030303 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020203 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSXSS0832402020104 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mill/kWh |
| | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MANO | TSYBU0432191010210 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSYBS0432192020204 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSYBS0441192020103 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MANO | TSYBS0441191010103 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SPPN | TSYBS1741282020703 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SPPN | TSYBS1742282020703 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSYBA0441192020105 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| SPPN | TSYSS1741282020304 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MANO | TSZBU0431192020110 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MANO | TSZBU0432192010210 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACW | TSZBN0241031020102 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | TSZBS0431142010103 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACE | TSZBS0241032020203 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| FRCCFL | TSZBS1541121020103 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| NWPEWY | TSZLS0841322020703 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| NWPEWY | TSZLS0842322020104 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MECS | CGCOU0431392050710 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | CGCOU0231412050710 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| ECAO | CGCOU0411142050710 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACE | CGCOU0141012050710 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACE | CGCOU0211412050710 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACW | CGCOU0211412050710 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACW | CGCOU0231412050710 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |
| MACW | CGCOU0232412050710 | 01 | | CG02 | | | | | | | | | | | 0. | 0. | | N/A | | | | 0.00 | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | |

MACW CGCOU0241412050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1211162050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1311162050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050210 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOU0131022050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCOU0931012050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CGCOU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0311092050310 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0331092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCOU0611112050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0811372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0831372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0832372050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE CGCOU0731322050710 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOS0331092050304 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOD0231412050307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOD0131022050307 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOD0631102050308 01 CG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.752
Total Annual Costs
Year: 2020

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RMPA  TCOLA0831402020105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSO1332392020102 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSJBO0412392020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBO0632102020202 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBE0232041020207 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBE0242041020207 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TCOLC0141012050301 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLE0411391030308 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     CG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Rep.Coal-IGCC                  36               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.753
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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSABU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00    22.44    30.88     0.00     0.00     0.00
MANO  TSABU0441182020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0541252020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0542252020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     ML02         101.     749.     85.0    15.56
 2.51    13.53    18.07    26.16    36.57     6.31    19.84    26.49
VACANCTSABU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00    26.28    32.58     0.00     0.00     0.00
TVA   TSABU0641202020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641232020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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SPPSTXTSASU3541292020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00    37.80    41.17     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSBBU0441181010110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00    24.96    38.21     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00    25.44    43.19     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00    22.56    34.97     0.00     0.00     0.00
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MAPPNETSBSU1441282020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBU0441041020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     ML02         314.    2340.     85.0    10.99
 2.49    31.55    13.48    27.96    42.99    22.30    53.85    23.01
MACW  TSCBU0242032020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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ECAOVATSDBU0341061020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSEBU0442142020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 34.08 | 45.69 | 0.00 | 0.00 | 0.00 |
| MACWPATSEBU0241032020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSEBU0241072020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBU0442181010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSEBU0442181010110 01 LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSEBU1141252020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSEBU2841012020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACASCTSEBU0641102020310 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0641232020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSEBU0642232020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNDTSELU0742312010110 02 ML02 | 676. | 5030. | 85.0 | 9.34 | 2.64 | 60.25 | 11.98 | 29.04 | 37.37 | 44.86 | 105.11 | 20.90 |
| MAPPNDTSELU0742312020110 02 ML01 | 370. | 2756. | 85.0 | 9.05 | 2.62 | 32.15 | 11.67 | 31.56 | 44.69 | 28.22 | 60.37 | 21.91 |
| ECAO TSESU0441171010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441171010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSESU0441172020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSESU0441172010110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MANO  TSESU0441172020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBO0141022020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBO0141022020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641202020210 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBU0641041020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBU0641042020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01     ML01         130.     970.     85.0    12.60
 2.55    14.69    15.15    28.80    41.64     9.17    23.86    24.60
SOU   TSFBU0642112020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFSU0441202020110 01     LO02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFSU0441202020110 01     LD02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MECSMITSGBU0441392020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441141010110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441141010110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSGBU0241082020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSGBU0241082020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSGBU1141272020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020110 01 ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 26.40 | 43.79 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020210 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020210 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642101020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642101020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642102020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642102020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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TVA   TSGBU0642222020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00    24.00    37.30     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     ML01         529.    3937.     85.0     8.43
 2.52    43.12    10.95    30.96    44.69    39.99    83.12    21.11
ECAO  TSHBU0641041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LD02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00    38.16    44.99     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.759
Total Annual Costs
Year: 2020

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VACANCTSKBU0641102020210 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSXBU0441192020110 01     LO01         227.    1692.     85.0     6.38
 2.93    15.75     9.31    29.88    38.09    15.44    31.19    18.44
MANO  TSXBU0441192020110 01     ML02         431.    3207.     85.0     8.06
 2.52    33.92    10.58    27.60    38.19    28.33    62.26    19.41
NWPE  TSXBU0841402020110 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00    28.80    23.55     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00    29.88    23.55     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     ML01         372.    2770.     85.0    12.00
 2.56    40.35    14.56    30.72    44.89    28.13    68.48    24.72
VACA  TSHBO0632102020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.760
Total Annual Costs
Year: 2020

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           
Variable Cos
ts Fixed Costs Total Costs
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Capacity Gener. C.F. Fuel
VOM Total Capital FOM Total Total
Unit Name [MW] [GWh] [%] mill/kWh mil
l/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
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SPPNMOTSUBU0541272020110 01 ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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Ret.Scrubber 37 10644. 75379. 80.8 10.36
3.04 1010.43 13.40 23.35 35.19 623.09 1633.52 21.67

NENGNHTSABC2941011010101 01 ML01 424. 3157. 85.0 12.02
3.49 48.97 15.51 27.72 40.11 28.75 77.72 24.62
VACANCTSABC0641101020201 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 ML02 685. 5103. 85.0 11.90
3.47 78.43 15.37 26.76 33.49 41.29 119.72 23.46
SOU ALTSABC0641232020101 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBC0641061020101 01 LO01 783. 5832. 85.0 9.36
3.85 77.06 13.21 18.72 34.48 41.67 118.72 20.36
ECAO TSDBC0641061020101 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSDBC0441041020101 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSDBC0441041020101 01 ML02 1062. 7910. 85.0 7.76
3.42 88.39 11.18 21.36 41.50 66.77 155.16 19.62
ECAOOHTSDBC0441042020101 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSDBC0441042020101 01 ML02 490. 3645. 85.0 8.65
3.50 44.30 12.15 23.52 36.28 29.27 73.57 20.18
VACANCTSDBC0641101020101 01 LO02 1086. 8088. 85.0 10.77
3.83 118.12 14.60 20.28 34.18 59.15 177.27 21.92
VACANCTSDBC0641101020101 01 LD02 1107. 8241. 85.0 11.33
4.35 129.26 15.68 15.24 31.08 51.26 180.52 21.90
ECAO TSEBC0641042020101 01 LO02 4112. 30618. 85.0 7.52
3.84 347.91 11.36 21.12 33.05 222.74 570.65 18.64
ECAO TSEBC0641042020101 01 LD02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBC0241072020101 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBC0241072020101 01 ML02 317. 2362. 85.0 9.88
3.45 31.49 13.33 27.60 43.50 22.55 54.04 22.88
MACS TSEBC0241072020201 01 LO01 1264. 9411. 85.0 10.84
3.93 139.04 14.77 21.48 28.13 62.70 201.74 21.44
MACS TSEBC0241072020201 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBC0441181010101 01 LO01 542. 4039. 85.0 7.13
3.95 44.74 11.08 23.28 35.68 31.98 76.72 19.00
MANO TSEBC0441181010101 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBC0641102020101 01 ML02 1155. 8602. 85.0 12.10
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3.49 134.07 15.59 26.16 37.18 73.17 207.24 24.09
VACASCTSEBC0641102020401 01 ML02 343. 2551. 85.0 12.23
3.50 40.14 15.73 27.12 37.58 22.17 62.31 24.42
TVA TSEBC0641221010101 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSEBC0641221010101 01 ML01 728. 5424. 85.0 9.32
3.49 69.48 12.81 25.32 43.70 50.27 119.75 22.08
ENTGMOTSEBC0541251010101 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSEBC0541251010101 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBC0641112020101 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBC0641112020101 01 ML02 494. 3681. 85.0 12.61
3.51 59.34 16.12 23.52 36.28 29.56 88.90 24.15
MACW TSHBC0241411020101 01 LO01 607. 4520. 85.0 8.68
3.87 56.74 12.55 21.36 35.28 34.38 91.12 20.16
MACW TSHBC0241411020101 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBC0241412020101 01 LO01 2075. 15447. 85.0 8.60
3.84 192.15 12.44 19.80 34.78 113.23 305.37 19.77
MACW TSHBC0241412020101 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBC0641112020101 01 LO01 4844. 36071. 85.0 11.88
3.87 568.24 15.75 18.60 33.76 253.66 821.90 22.79
SOU TSHBC0641112020101 01 LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01 220. 1640. 85.0 10.10
3.53 22.36 13.63 27.60 38.58 14.58 36.94 22.52
ECAO TSBBC0641062020201 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02 294. 2187. 85.0 10.04
3.52 29.66 13.56 29.88 38.38 20.05 49.71 22.73
ECAOOHTSBBC0441041020201 01 LD01 617. 4593. 85.0 10.14
4.48 67.14 14.62 18.12 32.58 31.27 98.41 21.43
VACANCTSBBC0641101020101 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02 377. 2807. 85.0 11.64
3.45 42.35 15.09 25.68 42.80 25.81 68.16 24.29
VACANCTSBBC0641102020101 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02 347. 2581. 85.0 11.92
3.47 39.71 15.39 26.64 37.48 22.22 61.93 24.00
VACAVATSBBC0341092020101 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02 1126. 8383. 85.0 10.51
3.47 117.18 13.98 25.92 39.53 73.69 190.86 22.77
ECAOOHTSCBC0441041020101 01 ML02 490. 3645. 85.0 10.95
3.49 52.63 14.44 23.28 32.19 27.15 79.79 21.89
TVA TSCBC0641212020101 01 LO01 861. 6408. 85.0 8.28
3.81 77.49 12.09 17.64 39.90 49.51 127.00 19.82
TVA TSCBC0641212020101 01 LD02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 ML01 1404. 10454. 85.0 10.72
3.50 148.65 14.22 32.88 46.00 110.74 259.39 24.81
VACANCTSGBC0641102020101 01 LO01 550. 4097. 85.0 11.86
3.92 64.64 15.78 22.80 35.58 32.12 96.76 23.62

Total Annual Costs
Year: 2020

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01         336.    2500.     85.0     8.55
 3.44    29.97    11.99    31.80    45.19    25.85    55.83    22.33
MACE  TSBBN0241032020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     ML01          17.     124.     85.0    10.93
 3.44     1.78    14.37    32.88    45.69     1.31     3.09    24.93
VACAVATSBBN0341092020202 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     ML01         160.    1188.     85.0     8.23
 3.41    13.84    11.64    32.16    45.39    12.38    26.21    22.06
NENG  TSDBN2841012020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     ML01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     LO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     ML02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBN0641042020102 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     LO01         584.    4352.     85.0     8.01
 3.76    51.22    11.77    21.24    34.87    32.79    84.01    19.30
ECAOOHTSGBN0441142020102 01     LD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     LO01         587.    4374.     85.0     7.83
 3.81    50.92    11.64    21.72    34.97    33.30    84.22    19.26
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.762
Total Annual Costs
Year: 2020

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAO TSHBN0441041020102 01 | LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020102 01 | LO01 | 587. | 4374. | 85.0 | 7.76 | 3.80 | 50.54 | 11.56 | 21.60 | 34.97 | 33.23 | 83.77 | 19.15 |
| ECAO TSHBN0441042020102 01 | LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 | LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 | ML01 | 176. | 1312. | 85.0 | 8.73 | 3.46 | 16.00 | 12.19 | 31.32 | 44.99 | 13.45 | 29.45 | 22.44 |
| Ret.ExistSNCR & Scrub | 39 | 2937. | 21870. | 85.0 | 8.12 | 3.65 | 257.23 | 11.76 | 24.18 | 37.50 | 181.15 | 438.38 | 20.04 |
| ECAO TCOLU0241082050710 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TCOLU0241412050710 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TCOLU0442192020110 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TCOLU1041292050210 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TOLBU0641052020110 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTOLBU0441142020110 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TOLBU1141252020110 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020110 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTOLSU0542281010110 01 | SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 10.08 | 27.00 | 0.00 | 0.00 | 0.00 |
| MECS TSABU0441391020110 01 | SCR2 | 790. | 5883. | 85.0 | 8.38 | 2.39 | 63.37 | 10.77 | 6.36 | 22.70 | 22.96 | 86.32 | 14.67 |
| ECAO TSABU0441201020110 01 | SCR2 | 480. | 3574. | 85.0 | 8.81 | 2.57 | 40.69 | 11.38 | 11.16 | 32.60 | 21.00 | 61.70 | 17.26 |
| ECAOOHTSABU0441051010110 01 | SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051020110 01 | SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSABU2341292020210 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 | SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSABU0441182020110 01 | SCR1 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0541252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSABU0542252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     SCR1         924.    6880.     85.0     8.14
 2.44    72.76    10.58     7.68    24.10    29.36   102.13    14.84
MAPP  TSABU1141282010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     SCR2         670.    4989.     85.0    10.80
 2.40    65.85    13.20     6.72    22.80    19.78    85.63    17.16
SOU ALTSABU0641232020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SCR2         650.    1377.     24.2    12.11
 2.41    19.99    14.52     6.84    22.80    19.27    39.26    28.51
ERCTTXTSASU1941292020310 01     SCR1        1210.    2563.     24.2    11.84
 2.41    36.53    14.25     6.96    25.00    38.66    75.19    29.34
ERCTTXTSASU2341292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     8.04    24.80     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     6.60    22.80     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.763
Total Annual Costs
Year: 2020

| Unit Name | Fixed Costs Capital | Fixed Costs FOM | Total Costs Capacity [MW] | Total Costs Gener. [GWh] | Total Costs C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total mill/kWh | Total Costs Total MMUS$ |
|---|---|---|---|---|---|---|---|---|---|
| | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | |
| SPPSTXTSASU3541292020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 SCR2 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 SCR2 | 7.44 | 26.80 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241042020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0641062020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSBBU0441182020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441041020110 01 SCR2 | 11.76 | 32.70 | 134. | 998. | 85.0 | 10.47 | 2.60 | 13.04 | 13.07 |
| ECAOOHTSBBU0441042020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSBBU0441181010110 01 SCR2 | 7.68 | 28.90 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBBU1441282010310 01 SCR2 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBBU1442282010310 01 SCR2 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 SCR1 | | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 SCR2 | 7.44 | 26.80 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 |

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SOU MSTSBBU1641242020110 01     SCR1          262.    1951.     85.0    12.03
 2.50    28.35    14.53     9.36    26.90     9.50    37.85    19.40
AZNM  TSBBU0841361020310 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020110 02     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPSDTSBLU0742261010110 02     SCR2            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSCBU0441182020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBU0441041020210 01     SCR2          600.    4468.     85.0    10.33
 2.41    56.93    12.74     6.96    22.80    17.86    74.79    16.74
MACW  TSCBU0241032020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SCR1          306.    2279.     85.0    13.17
 2.58    35.88    15.75    11.28    27.00    11.71    47.60    20.89
TVA   TSCBU0641212020210 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     SCR1         1711.   12739.     85.0    10.71
 2.46   167.82    13.17     8.16    29.90    65.11   232.94    18.29
RMPA  TSCBU0841342020310 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     SCR1          377.    2811.     85.0     8.77
 2.41    31.43    11.18     6.96    22.80    11.23    42.66    15.18
WUMSWITSCSU1341161010110 01     SCR2          342.    2547.     85.0     7.81
 2.47    26.17    10.28     8.52    26.90    12.11    38.29    15.03
WUMSWITSCSU1341162020110 01     SCR1            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.764
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSCSU1341162020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1141251020210 01 SCR2 | 714. | 5085. | 81.3 | 10.27 | 2.40 | 64.44 | 12.67 | 6.60 | 22.80 | 20.99 | 85.43 | 16.80 |
| MAPP TSCSU1141252020110 01 SCR1 | 637. | 4743. | 85.0 | 10.33 | 2.41 | 60.42 | 12.74 | 6.84 | 22.80 | 18.88 | 79.30 | 16.72 |
| MAPP TSCSU1141252020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSCSU1142252020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSCSU1342162020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSDBU0441392020110 01 SCR1 | 609. | 4535. | 85.0 | 8.46 | 2.49 | 49.64 | 10.95 | 8.88 | 32.50 | 25.20 | 74.84 | 16.50 |
| ECAO TSDBU0641062020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOVATSDBU0341061020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 9.72 | 32.50 | 0.00 | 0.00 | 0.00 |
| ECAOWVTSDBU0641051010110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 10.32 | 32.60 | 0.00 | 0.00 | 0.00 |
| MACSMDTSDBU0241081020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 7.68 | 28.90 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 SCR1 | 300. | 2232. | 85.0 | 11.24 | 2.45 | 30.54 | 13.69 | 7.92 | 29.30 | 11.15 | 41.70 | 18.68 |
| FRCCFLTSDBU1541132020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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VACANCTSDBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1         564.    4200.     85.0    11.26
 2.59    58.16    13.85    11.64    32.60    24.95    83.11    19.79
TVA   TSDBU0642222020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     8.88    29.80     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     7.80    26.80     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     SCR1         303.    2256.     85.0     9.51
 2.49    27.08    12.00     8.88    32.50    12.54    39.61    17.56
MANO  TSESU0441172020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     SCR2         567.    4222.     85.0     9.26
 2.42    49.31    11.68     7.08    26.80    19.21    68.52    16.23
SOU   TSESU0641111020210 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     6.24    22.70     0.00     0.00     0.00
SOU   TSESU0641112020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     7.44    32.40     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     7.44    22.80     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.765
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOKYTSFBU0641202020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 7.44 | 26.80 | 0.00 | 0.00 | 0.00 |
| ECAOWVTSFBU0641041020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 6.36 | 26.70 | 0.00 | 0.00 | 0.00 |
| ECAOWVTSFBU0641042020110 01 SCR1 | 552. | 4110. | 85.0 | 9.75 | 2.42 | 50.01 | 12.17 | 7.20 | 32.40 | 21.86 | 71.87 | 17.48 |
| MANOMOTSFBU0542251010110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 7.56 | 29.60 | 0.00 | 0.00 | 0.00 |
| SOU TSFBU0641112020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSFBU0642112020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSFBU1742282020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSFSU0441202020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSGBU0441392020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441141010110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSGBU0241082020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSGBU1141272020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020110 01 SCR2 | 165. | 1140. | 78.9 | 13.69 | 2.57 | 18.54 | 16.26 | 11.04 | 32.60 | 7.20 | 25.74 | 22.57 |
| VACANCTSGBU0641101020210 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020210 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642101020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 11.04 | 32.60 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642102020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0642222020110 01 SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSGSU0441201020210 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441041020110 01 SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ECAO  TSHBU0441042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441042020310 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641041020110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00    10.92    32.60     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00    10.32    28.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     SCR2         105.     726.     78.9    11.14
 2.64    10.00    13.78    12.84    32.70     4.78    14.78    20.37
ECAO  TSHBU0642182020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     6.24    29.50     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSISU0441171010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     7.68    26.80     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSISU1341392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISU0541271010110 01     SCR2         450.    3351.     85.0    10.28
 2.52    42.90    12.80     9.84    29.10    17.52    60.43    18.03
ECAO  TSJBU0441051020110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     7.08    26.80     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SCR2         390.    2904.     85.0     7.72
 2.46    29.55    10.18     8.16    26.80    13.63    43.19    14.87
ECAO  TSKBU0441042020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     SCR2         222.    1534.     78.9     9.79
 2.53    18.91    12.32     9.96    32.50     9.43    28.33    18.47
MECSMITSLBU0441152020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.766
Total Annual Costs
Year: 2020

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 3.96    43.29    16.33    10.68    43.60    19.32    62.61    23.62
MAPP  TSISS1141262020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISS0541272020103 01     SCR1         670.    4989.     85.0     9.89
 3.80    68.28    13.69     6.72    41.00    31.97   100.25    20.09
SPPNMOTSUBS0541272020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841361020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0841332020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0842332020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSUBS0842332020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBS0641201020103 01     SCR2         633.    4714.     85.0     7.02
 3.88    51.39    10.90     8.76    43.20    32.89    84.28    17.88
ECAO  TSVBS0641202020103 01     SCR1         401.    2986.     85.0     6.47
 3.94    31.09    10.41    10.32    43.30    21.50    52.59    17.61
ECAOINTSVBS0441181010103 01     SCR2         480.    3574.     85.0     6.54
 3.92    37.39    10.46     9.60    43.30    25.39    62.78    17.56
ECAOINTSVBS0441182020103 01     SCR1        1664.   12391.     85.0     7.06
 3.85   135.13    10.91     7.92    42.50    83.90   219.03    17.68
ECAO  TSXBS0241042020103 01     SCR1        1080.    8042.     85.0     8.22
 3.82    96.80    12.04     7.20    41.60    52.70   149.51    18.59
ECAO  TSXBS0241042020703 01     SCR1        1566.   11661.     85.0     8.79
 3.79   146.75    12.58     6.36    43.10    77.45   224.20    19.23
ECAO  TSXBS0242412020703 01     SCR1         134.     998.     85.0     9.75
 4.00    13.72    13.75    11.76    43.70     7.43    21.15    21.20
ECAO  TSXBS0441142020103 01     SCR1         750.    5585.     85.0    10.48
 3.86    80.10    14.34     8.28    42.20    37.86   117.96    21.12
ECAO  TSXBS0641201020103 01     SCR2         469.    3492.     85.0     7.22
 3.92    38.91    11.14     9.72    43.30    24.87    63.78    18.26
ECAO  TSXBS0641042020103 01     SCR1        1228.    9144.     85.0     8.74
 3.81   114.72    12.55     6.96    41.00    58.89   173.61    18.99
ECAO  TSXBS0641202020103 01     SCR1         993.    7394.     85.0     7.09
 3.91    81.31    11.00     9.48    42.30    51.42   132.72    17.95
ECAO  TSXBS0642201020103 01     SCR2         155.    1154.     85.0     7.65
 3.98    13.42    11.63    11.28    43.60     8.51    21.93    19.00
MANO  TSXBS0441191020103 01     SCR2         366.    2725.     85.0     8.69
 3.86    34.19    12.55     8.28    43.20    18.84    53.03    19.46
MANO  TSXBS0441192020103 01     SCR1         190.    1415.     85.0     6.80
 3.95    15.21    10.75    10.44    41.20     9.81    25.02    17.68
MAPP  TSXBS1142272020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSXBS0141022020103 01     SCR1         149.    1110.     85.0    10.28
 3.98    15.83    14.26    11.40    43.60     8.20    24.02    21.65
VACA  TSXBS0641101020103 01     SCR2         270.    2011.     85.0    12.16
 3.90    32.28    16.06     9.24    41.10    13.59    45.88    22.82
VACA  TSXBS0641102020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSXBS0641222020203 01     SCR1         472.    3515.     85.0    10.26
 3.92    49.82    14.18     9.72    41.10    23.99    73.81    21.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.767
Total Annual Costs
Year: 2020

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AZNM  TSXSS0841351020303 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0841352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0841352020303 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842351020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842351020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842352020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSXSS0842352020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0741322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXSS0742322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBS0441192020103 01     SCR1        1722.   12823.     85.0     6.82
 3.85   136.84    10.67     7.80    41.00    84.03   220.87    17.23
ECAOOHTSYBS0441042020103 01     SCR1        1300.    9680.     85.0     7.69
 3.78   111.04    11.47     6.24    23.40    38.53   149.58    15.45
MACW  TSYBS0241412020103 01     SCR1        1700.   12659.     85.0     7.89
 3.78   147.68    11.67     6.24    43.00    83.71   231.38    18.28
MANO  TSYBS0441191010103 01     SCR2         170.    1266.     85.0     9.10
 3.96    16.54    13.06    10.92    41.20     8.86    25.40    20.06
SPPN  TSYBS1741281010703 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741282020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1141262020304 01     SCR1         871.    6486.     85.0     9.46
 3.78    85.85    13.24     6.24    40.90    41.06   126.91    19.57
MAPP  TSYSS1142262020203 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1142262020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1741282020304 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1742282020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     SCR1         581.    4326.     85.0    11.51
 3.89    66.65    15.40     9.00    43.40    30.44    97.09    22.44
FRCCFLTSZBS1541121020103 01     SCR2         957.    7126.     85.0    10.58
 3.84   102.79    14.42     7.56    41.00    46.47   149.26    20.95
FRCCFLTSZBS1541122020103 01     SCR1        2315.   17238.     85.0    10.67
 3.82   249.79    14.49     7.08    41.00   111.31   361.10    20.95
MAPPWYTSZLS0841322020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPAWYTSZLS0841322020103 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0841322020703 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0842322020104 01     SCR2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCGCOS3141012050703 01     SCR1         195.    1426.     83.5    11.81
 3.94    22.46    15.75    10.32    28.70     7.61    30.07    21.08
RMPA  TSASS0841342020303 01     SCR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     SCR2         132.     983.     85.0     8.78
 4.00    12.56    12.78    11.88    43.70     7.34    19.90    20.24
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.768
Total Annual Costs
Year: 2020

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131272020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131252020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131262020310 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  TCOLU0131022020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
FRCCFLTCOLU1531132020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACA  TCOLU0631041050710 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACA  TCOLU0631102050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACANCTCOLU0631102020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACANCTCOLU0631102020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
VACAVATCOLU0331092050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TCOLU1731281020310 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TCOLU1731282020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPSTXTCOLU3531292050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
CALI  TCOLU0832372050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
RMPA  TCOLU0831331020310 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NWPE  TCOLU0831332050710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0631191040110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632051020110 01     HNO1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632052020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0632192020210 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TOLBU0641052020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOMDTOLBU0231082020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTOLBU0432142020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTOLBU0432142020710 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TOLBU0231032020110 01     SNR1            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.769
Total Annual Costs
Year: 2020

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MACW | TOLBU0232032050110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TOLBU0432192010210 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMO | TOLBU0532281010110 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TOLBU1141252020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMO | TOLBU0532281010110 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TOLBU0632101020210 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TOLBU0632102020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | TOLBU0332092020210 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1732282020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TOLBU1742282020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | TOLBU0531281010110 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | TOLBU0531281020110 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | TOLBU0531282020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | TOLBU0532281010110 01 HNC1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TRRBU0432042020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSABU0441201020110 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOH | TSABU0441051020110 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPA | TSABU0241032020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSABU1141282010210 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNY | TSABU0141012020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNY | TSABU0142012020110 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA | TSABU0641202020310 01 SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSABU0841341020310 01 HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

NWPE TSABU0832332020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.770
Total Annual Costs
Year: 2020

| | | |

TVA TSDBU0642222020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1331392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1332392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSDSU1132252020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0432142020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| | | |

VACA TSHBU0641102020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSKBU0432182020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0632102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0432152020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0231052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0232052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0432141020210 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0632182020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSLBU0531281020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1          84.     625.     85.0     9.87
 3.86     8.59    13.73     2.64    23.40     2.19    10.77    17.22
MACW  TCOLS0231412050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1          80.     448.     63.9    10.37
 3.86     6.37    14.23     2.76    43.30     3.68    10.05    22.46
VACANCTCOLS0641102050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBS0432142020304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBS0432191010103 01     HNC1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBS0432192010203 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TRRBS0832342030304 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020304 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBS0431141010103 01     HNC1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSGBS1231392020104 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1531132020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1532132020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISS1132262020703 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBS0541272020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSUBS0841362020703 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBS0431182020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBS0432181020103 01     HNO1          90.     670.     85.0     7.99
 3.86     7.94    11.85     2.52    43.30     4.12    12.07    18.00
MECS  TSXBS0432392020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSXBS0432392020203 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBS0242412020703 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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ECAOOHTSBBS0441041020304 01     HNO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     SNR1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistScrub & SNCR         43             254.    1743.     78.3     9.27
 3.86    22.90    13.13     2.64    36.72    10.00    32.89    18.87

ECAO  TCOLU0241082050710 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     RL01         213.    1589.     85.0     9.11
 3.67    20.31    12.78    56.76    28.05    18.10    38.41    24.17
MANO  TCOLU0442192020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     RO01         238.    1771.     85.0     8.66
 3.90    22.25    12.56    45.60    44.89    21.53    43.78    24.71
MAPP  TOLBU1141252020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSABU0441051010110 01     SO01         401.    2989.     85.0     7.41
 3.90    33.80    11.31    49.68    45.89    38.36    72.16    24.14
ECAOOHTSABU0441051020110 01     SO01         372.    2770.     85.0     7.44
 3.91    31.44    11.35    51.84    46.29    36.51    67.94    24.53
ERCTTXTSABU2341292020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSABU2341292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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RMPA  TSABU0841341020310 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841342020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841352020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSASU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941291020310 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     RD01         798.    5941.     85.0    10.81
 4.55    91.28    15.36    24.00    27.58    41.16   132.44    22.29
ENTG  TSASU1042292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02         982.    7312.     85.0    10.11
 3.43    99.03    13.54    31.08    31.98    61.92   160.95    22.01
SPPS  TSASU3641282020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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TVA   TSBBU0641212020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020110 02     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2241302020410 02     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBLU2242302020410 02     RD01         311.    1689.     62.0    13.65
 4.61    30.83    18.26    26.76    32.77    18.51    49.35    29.23
MAPPSDTSBLU0742261010110 02     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.776
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total Variable Costs MMUS$ | Total Variable Costs mill/kWh | Fixed Costs Capital US$/kW/a | Fixed Costs FOM US$/kW/a | Total Fixed Costs MMUS$ | Total Costs MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPPNETSBSU1442282020510 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RL02 | 1265. | 9419. | 85.0 | 8.73 | 3.45 | 114.69 | 12.18 | 33.48 | 36.67 | 88.73 | 203.41 | 21.60 |
| ECAOOHTSCBU0441041020210 01 SD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 RL02 | 1328. | 9885. | 85.0 | 10.96 | 3.39 | 141.84 | 14.35 | 31.92 | 39.02 | 94.18 | 236.02 | 23.88 |
| MACW TSCBU0241032020310 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 RL01 | 379. | 2821. | 85.0 | 11.55 | 3.58 | 42.68 | 15.13 | 41.04 | 45.09 | 32.63 | 75.31 | 26.69 |
| VACA TSCBU0641102020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0641102020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 RL02 | 189. | 1409. | 85.0 | 10.43 | 3.41 | 19.49 | 13.84 | 34.08 | 40.13 | 14.04 | 33.53 | 23.80 |
| RMPA TSCBU0841342020310 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1242162020110 01 RD01 | 706. | 5260. | 85.0 | 8.96 | 4.58 | 71.19 | 13.54 | 26.28 | 28.48 | 38.68 | 109.87 | 20.89 |
| WUMSWITSCSU1242162020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 SO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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WUMSWITSCSU1341161010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020510 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020510 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     RL01         978.    7283.     85.0     8.87
 3.53    90.33    12.40    35.28    39.70    73.34   163.66    22.47
MANO  TSCSU0441202020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     RO01         685.    5103.     85.0     7.60
 3.98    59.10    11.58    39.00    37.47    52.40   111.51    21.85
MANO  TSCSU0442182010110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1141251020210 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1141252020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1141252020210 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCSU1142252020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSCSU1342162020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     RL01         255.    1895.     85.0     9.46
 3.47    24.51    12.93    33.60    43.39    19.60    44.11    23.27
ECAOVATSDBU0341061020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     SL01         611.    4553.     85.0     7.91
 3.50    51.97    11.41    39.72    44.79    51.67   103.64    22.76
MACSMDTSDBU0241081020110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.777

Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: Total MMUS$ | Total Costs: mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSDBU1241162020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 RL02 | 539. | 4014. | 85.0 | 7.18 | 3.41 | 42.53 | 10.59 | 36.72 | 43.99 | 43.51 | 86.04 | 21.43 |
| MANOILTSDBU0441191020110 01 SL02 | 353. | 2632. | 85.0 | 8.54 | 3.44 | 31.53 | 11.98 | 34.92 | 37.37 | 25.55 | 57.07 | 21.69 |
| MANOILTSDBU0441192020110 01 RL01 | 257. | 1910. | 85.0 | 8.83 | 3.50 | 23.55 | 12.33 | 34.20 | 37.77 | 18.46 | 42.01 | 21.99 |
| MANOMOTSDBU0541252020110 01 RD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SO01 | 1365. | 10162. | 85.0 | 9.05 | 3.75 | 130.12 | 12.80 | 26.64 | 30.58 | 78.09 | 208.21 | 20.49 |
| FRCCFLTSDBU1541132020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RL02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 RL02 | 2046. | 15236. | 85.0 | 11.39 | 3.36 | 224.78 | 14.75 | 29.28 | 37.91 | 137.48 | 362.26 | 23.78 |
| TVA TSDBU0641222020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 RO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 RL01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ECAOOHTSEBU0441142020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     RL01         638.    4753.     85.0     9.98
 3.57    64.40    13.55    43.68    45.89    57.17   121.57    25.58
ECAOOHTSEBU0442142020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     RL01         132.     984.     85.0    10.81
 3.61    14.19    14.42    47.76    47.09    12.54    26.73    27.16
MANO  TSEBU0442181010110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     SO01         542.    4039.     85.0     7.42
 3.90    45.72    11.32    30.84    41.29    39.12    84.84    21.01
MAPP  TSEBU1141252020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     RL02         364.    2712.     85.0    11.60
 3.44    40.80    15.04    37.92    41.03    28.75    69.55    25.65
VACASCTSEBU0641102020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     SO01          84.     624.     85.0    12.16
 3.76     9.93    15.92    24.96    30.08     4.61    14.54    23.31
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.778
Total Annual Costs
Year: 2020

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MECSMITSGBU0441392020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     SL01         225.    1677.     85.0    10.49
 3.66    23.73    14.15    54.24    48.29    23.09    46.82    27.92
ECAOOHTSGBU0441142020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441142020110 01     RL02         925.    6889.     85.0     9.70
 3.41    90.33    13.11    31.56    37.29    63.70   154.02    22.36
MACS  TSGBU0241082020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     RL01         535.    3980.     85.0    10.13
 3.51    54.29    13.64    41.04    45.19    46.09   100.38    25.22
MAPP  TSGBU1141272020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSGBU0141022020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSGBU0141022020210 01     RL01         403.    3003.     85.0    11.55
 3.58    45.44    15.13    39.60    44.69    34.00    79.43    26.45
VACANCTSGBU0641101020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     SL01         259.    1932.     85.0    12.53
 3.50    30.97    16.03    33.96    43.39    20.07    51.04    26.42
VACANCTSGBU0641102020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     SL01         191.    1422.     85.0     8.10
 3.51    16.50    11.61    39.84    44.89    16.17    32.67    22.98
ECAO  TSHBU0441041020110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0441041020110 01     SO01         573.    4265.     85.0     7.66
 3.76    48.70    11.42    28.80    35.17    36.63    85.34    20.01
ECAO  TSHBU0441042020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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MECS  TSIBU0442392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSISU0441171010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSISU0441171010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWITSISU1341392020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISU0541271010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSISU0541271010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441051020110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441051020110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     RL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SL02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     RL02         638.    4753.     85.0     8.45
 3.46    56.61    11.91    36.72    39.91    48.91   105.53    22.20
MANO  TSKBU0441181010110 01     SD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     RD01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     RO01         583.    4338.     85.0     6.43
 3.75    44.15    10.18    28.56    35.17    37.12    81.27    18.74
VACANCTSKBU0641102020210 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     SL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     RL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     RL01         134.     999.     85.0     8.73
 3.64    12.36    12.37    47.76    47.09    12.72    25.08    25.11
WUMSWITSLBU1341392020110 01     RO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
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MACW  TCOLU0241412050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01SCR1     134.     999.     85.0     8.69
 3.64    12.32    12.33    47.76    47.09    12.72    25.04    25.07
ECAOOHTOLBU0441142020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     SCR2ML01     207.    1538.     85.0     9.12
 3.64    19.63    12.76    40.30    39.08    16.40    36.03    23.42
SPPNMOTOLSU0542281010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTOLSU0542281010110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     SCR2LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSABU0441391020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

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MANOMOTSABU0542252020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1142282020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0141012020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNYNYTSABU0142012020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTTSABU3241012020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSABU0641102020210 01     ML02SCR1     729.    5431.     85.0    12.01
 3.43    83.84    15.44    34.56    33.08    49.33   133.18    24.52
TVA   TSABU0641202020310 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSABU0641112020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     SCR2LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641231020210 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641232020210 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSABU0641232020210 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSABU1641242020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.782
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SOU MSTSABU1641242020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841341020310 01 SCR2ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841341020310 01 ML01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841342020310 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841342020310 01 ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0841332020110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0841332020110 01 ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0841352020310 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0841352020310 01 ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSASU0441392020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSASU0441392020110 01 SCR1LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSASU0441392020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSASU0441392020110 01 LD01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941291020310 01 SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941291020310 01 SCR2LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941291020310 01 LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941291020310 01 LD01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941292020310 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941292020310 01 SCR1LD01 | 0. | 3. | 85.0 | 10.10 | 4.44 | 0.05 | 14.54 | 25.71 | 0.00 | 0.01 | 0.06 |
| | | | 18.00 | | | | | | | | |

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ERCTTXTSASU1941292020310 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU1941292020310 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     SCR1ML02     793.    5905.     85.0    10.26
 3.47    81.08    13.73    34.61    34.83    55.07   136.15    23.06
ERCTTXTSASU2341292020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSASU2341292020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     SCR1LD01    1292.    9618.     85.0    10.27
 4.46   141.68    14.73    24.74    27.99    68.11   209.78    21.81
ENTG  TSASU1041292020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1041292020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TSASU1042292020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     ML02SCR1    1034.    7698.     85.0    10.29
 3.45   105.80    13.74    30.48    33.92    66.58   172.39    22.39
SPPSTXTSASU2342292020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.783
Total Annual Costs
Year: 2020

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MECS  TSBBU0441392020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     SCR2ML02     979.    7290.     85.0     8.04
 3.37    83.16    11.41    30.28    35.97    64.86   148.03    20.31
ECAO  TSBBU0241041020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01SCR1     370.    2756.     85.0     8.56
 3.61    33.54    12.17    49.92    41.87    33.97    67.51    24.50
ECAOOHTSBBU0441041020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSBBU0441181010110 01     SCR2ML02     294.    2191.     85.0     9.14
 3.43    27.54    12.57    32.80    38.62    21.02    48.56    22.16
MANOILTSBBU0441181010110 01     ML02SCR2     587.    4370.     85.0     9.14
 3.43    54.93    12.57    32.76    38.61    41.88    96.82    22.16
MAPPNETSBBU1441282010310 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSBBU0641102020210 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBU0641102020210 01 ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSBBU0641212020110 01 ML01SCR1 | 956. | 7115. | 85.0 | 10.47 | 3.49 | 99.30 | 13.96 | 35.04 | 43.69 | 75.22 | 174.53 | 24.53 |
| SOU TSBBU0641112020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641112020110 01 ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 SCR1LD01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020110 01 LO01SCR1 | 1080. | 8041. | 85.0 | 9.85 | 3.78 | 109.56 | 13.63 | 29.76 | 35.37 | 70.33 | 179.89 | 22.37 |
| SOU TSBBU0641242020110 01 LD01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSBBU0641242020210 01 ML01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 SCR2ML02 | 501. | 3733. | 85.0 | 11.32 | 3.42 | 55.03 | 14.74 | 30.64 | 35.97 | 33.39 | 88.42 | 23.69 |
| SOU MSTSBBU1641241020110 01 LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSBBU1641241020110 01 ML02SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

SOU MSTSBBU1641242020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 SCR2ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 ML02SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mil |
| l/kWh | | | | | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | MMUS$ | MMUS$ | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| MANO | TSBSU0441172020110 | | | | | | | | | | | | ML02SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MANO | TSBSU0441172020210 | | | | | | | | | | | | SCR1LO01 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MANO | TSBSU0441172020210 | | | | | | | | | | | | SCR1ML02 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MANO | TSBSU0441172020210 | | | | | | | | | | | | LO01SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MANO | TSBSU0441172020210 | | | | | | | | | | | | ML02SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1441282020110 | | | | | | | | | | | | | SCR1LD01 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1441282020110 | | | | | | | | | | | | | LD01SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1441282020210 | | | | | | | | | | | | | SCR1LD01 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1441282020210 | | | | | | | | | | | | | LD01SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1442282020110 | | | | | | | | | | | | | SCR1ML01 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1442282020110 | | | | | | | | | | | | | ML01SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1442282020510 | | | | | | | | | | | | | LD01SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MAPPNETSBSU1442282020510 | | | | | | | | | | | | | SCR1LD01 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| SPPNMOTSBSU0542282020110 | | | | | | | | | | | | | SCR1LO01 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| SPPNMOTSBSU0542282020110 | | | | | | | | | | | | | SCR1ML01 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| SPPNMOTSBSU0542282020110 | | | | | | | | | | | | | LO01SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| SPPNMOTSBSU0542282020110 | | | | | | | | | | | | | ML01SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOINTSCBU0441182020110 | | | | | | | | | | | | | SCR1LO01 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOINTSCBU0441182020110 | | | | | | | | | | | | | SCR1ML02 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOINTSCBU0441182020110 | | | | | | | | | | | | | LO01SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOINTSCBU0441182020110 | | | | | | | | | | | | | ML02SCR1 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOOHTSCBU0441041020210 | | | | | | | | | | | | | SCR2LD01 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| ECAOOHTSCBU0441041020210 | | | | | | | | | | | | | LD01SCR2 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |
| MACW | TSCBU0241032020110 | | | | | | | | | | | | SCR1LO01 | | | 0. | 0. | | N/A | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | 0.00 | | 0.00 | | | | |

```
MACW  TSCBU0241032020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     SCR1LD01      99.     737.     85.0     8.96
 4.58     9.97    13.54    26.43    28.49     5.43    15.40    20.91
```

Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSCSU1242162020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1242162020110 01 LD01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 SCR2LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 SCR2ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 LO01SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 ML02SCR2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 SCR1ML02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 LO01SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 ML02SCR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 SCR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 SCR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MANO TSCSU0441182010110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SCR2LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 LD01SCR2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 SCR1LD01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 LD01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 ML01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 SCR1ML02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 ML02SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 SCR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 LO01SCR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.787
Total Annual Costs
Year: 2020

| Unit Name | Fixed Costs Capital | Fixed Costs FOM | Total Costs Capacity [MW] | Total Costs Gener. [GWh] | Total Costs C.F. [%] | Variable Costs Fuel mill/kWh | Variable Costs VOM mill/kWh | Variable Costs Total mill/kWh | Total Annual Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|
| ECAO TSDBU0641062020110 01 ML01SCR1 | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| ECAOVATSDBU0341061020110 01 SCR2LO01 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| ECAOVATSDBU0341061020110 01 SCR2ML01 | | | | | | 906. | 6743. | 85.0 | 9.13 |
| 3.45 | 84.81 | 12.58 | 35.73 | 43.90 | 72.11 | 156.91 | 23.27 | | |
| ECAOVATSDBU0341061020110 01 LO01SCR2 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| ECAOVATSDBU0341061020110 01 ML01SCR2 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| ECAOWVTSDBU0641051010110 01 SCR2LO01 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| ECAOWVTSDBU0641051010110 01 SCR2ML01 | | | | | | 153. | 1140. | 85.0 | 7.91 |
| 3.50 | 13.01 | 11.41 | 39.82 | 44.90 | 12.97 | 25.99 | 22.79 | | |
| ECAOWVTSDBU0641051010110 01 LO01SCR2 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| ECAOWVTSDBU0641051010110 01 ML01SCR2 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| MACSMDTSDBU0241081020110 01 SCR2ML02 | | | | | | 1808. | 13465. | 85.0 | 9.83 |
| 3.37 | 177.71 | 13.20 | 31.60 | 38.42 | 126.62 | 304.33 | 22.60 | | |
| MACSMDTSDBU0241081020110 01 ML02SCR2 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| WUMSWITSDBU1241162020110 01 SCR1LO01 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| WUMSWITSDBU1241162020110 01 SCR1ML02 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| WUMSWITSDBU1241162020110 01 LO01SCR1 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| WUMSWITSDBU1241162020110 01 ML02SCR1 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| MANOILTSDBU0441191020110 01 SCR2ML02 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| MANOILTSDBU0441191020110 01 ML02SCR2 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| MANOILTSDBU0441192020110 01 SCR1ML01 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| MANOILTSDBU0441192020110 01 ML01SCR1 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| MANOMOTSDBU0541252020110 01 SCR1LO01 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| MANOMOTSDBU0541252020110 01 SCR1LD01 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| MANOMOTSDBU0541252020110 01 LO01SCR1 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| MANOMOTSDBU0541252020110 01 LD01SCR1 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| FRCCFLTSDBU1541131020110 01 SCR2LO01 | | | | | | 0. | 0. | N/A | 0.00 |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

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FRCCFLTSDBU1541131020110 01     SCR2LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     SCR1LO01     522.    3888.     85.0     9.23
 3.82    50.74    13.05    34.37    39.03    38.32    89.06    22.91
FRCCFLTSDBU1541132020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541132020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBU0641102020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.788
Total Annual Costs
Year: 2020

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NENG  TSEBU2841012020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     SCR1ML02     804.    5985.     85.0    11.60
 3.44    90.05    15.04    38.11    41.04    63.62   153.67    25.67
NENG  TSEBU2841012020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312010110 02     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     SCR2LO01     422.    3142.     85.0     8.01
 3.85    37.27    11.86    34.13    36.37    29.75    67.01    21.33
ECAO  TSESU0441171010110 01     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441171010110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172010110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.789
Total Annual Costs
Year: 2020

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ECAO  TSFBU0441142020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     SCR2ML02     490.    3645.     85.0     7.29
 3.32    38.68    10.61    29.56    41.59    34.83    73.51    20.17
ECAOINTSFBU0441201010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     SCR2ML02     962.    7166.     85.0     9.76
 3.45    94.68    13.21    31.72    32.09    61.41   156.09    21.78
ECAOKYTSFBU0641201020210 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641202020210 01     SCR1ML02     498.    3711.     85.0     9.66
 3.44    48.60    13.10    31.12    36.07    33.48    82.08    22.12
ECAOKYTSFBU0641202020210 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBU0641041020110 01     SCR2LD01    1566.   11664.     85.0     9.68
 4.28   162.86    13.96    23.18    31.57    85.76   248.62    21.31
ECAOWVTSFBU0641041020110 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBU0641042020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBU0641042020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01     SCR2LO01     932.    6940.     85.0     7.95
 3.94    82.54    11.89    33.52    39.03    67.62   150.17    21.64
MANOMOTSFBU0542251010110 01     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSFBU0542251010110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0641112020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | | | | | Total | | Capital | | FOM | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | mill/kWh |
| | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | SCR1LO02 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | SCR1LD02 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | LO02SCR1 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSFSU0441202020110 | 01 | | | | | | | LD02SCR1 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MECSMI | TSGBU0441392020110 | 01 | | | | | | | SCR1ML01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MECSMI | TSGBU0441392020110 | 01 | | | | | | | ML01SCR1 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | SCR2LO01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | SCR2ML01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | LO01SCR2 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441141010110 | 01 | | | | | | | ML01SCR2 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | SCR1LO01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | SCR1ML02 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | LO01SCR1 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAOOH | TSGBU0441142020110 | 01 | | | | | | | ML02SCR1 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | SCR1LO01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | SCR1ML01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | LO01SCR1 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MACS | TSGBU0241082020110 | 01 | | | | | | | ML01SCR1 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MAPP | TSGBU1141272020210 | 01 | | | | | | | SCR1ML01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MAPP | TSGBU1141272020210 | 01 | | | | | | | ML01SCR1 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | SCR1LO01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | SCR1ML01 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | LO01SCR1 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| UPNY | TSGBU0141022020210 | 01 | | | | | | | ML01SCR1 | | | | | | 0. | 0. | N/A | | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |

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VACANCTSGBU0641101020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020210 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020110 01     ML02SCR1     269.    2005.     85.0    12.35
 3.49    31.75    15.84    35.64    44.29    21.52    53.27    26.57
VACANCTSGBU0641102020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     SCR2ML01     162.    1203.     85.0    13.38
 3.63    20.46    17.01    44.64    46.00    14.64    35.10    29.18
VACANCTSGBU0642101020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.791
Total Annual Costs
Year: 2020

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ECAO  TSHBU0641041020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641042020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     SCR1ML01     982.    7312.     85.0     8.94
 3.57    91.51    12.51    40.30    40.20    79.05   170.56    23.33
ECAO  TSHBU0641182020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0641182020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     SCR2ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642181020110 01     ML01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBU0642182020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     SCR1LO01    1664.   12393.     85.0     8.71
 3.74   154.33    12.45    24.85    36.93   102.83   257.17    20.75
MACW  TSHBU0241412020110 01     SCR1LD02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBU0241412020110 01     LD02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSHBU0441192020110 01     LO01SCR1     421.    3135.     85.0     6.12
 3.88    31.34    10.00    48.24    45.59    39.50    70.84    22.60
VACA  TSHBU0641102020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
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ECAO  TSJBU0441202020410 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0441252020210 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     SCR2ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     LO01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSJBU0541281010110 01     ML02SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     SCR1ML02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSKBU0441042020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SCR2LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     SCR2LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     LO01SCR2    1132.    8427.     85.0     7.04
 3.85    91.80    10.89    29.76    35.37    73.71   165.50    19.64
MANO  TSKBU0441181010110 01     LD01SCR2       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     SCR1LD01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     LD01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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MANO  TSXBU0441192020110 01     ML02SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     ML01SCR1     183.    1339.     83.5    10.41
 3.43    18.54    13.84    39.36    24.15    11.63    30.16    22.52
MACW  CGCOU0241412050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     ML01SCR1     195.    1425.     83.5    11.37
 3.56    21.28    14.93    40.20    24.15    12.54    33.82    23.73
SPPS  CGCOU3641282050710 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     LO01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     ML01SCR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.SCR+Scrb                   44           62002.  461009.     84.9     9.58
 3.64  6094.98    13.22    32.61    36.71  4298.12 10393.10    22.54

MACW  TCOLU0241412050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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NWPE  TSASU0842322020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBU0641102020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0432172010110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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SOU ALTSEBU0642232020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNDTSELU0742312020110 02     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSESU0441172020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSESU0441172020310 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBU0642112020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSFBU1742282020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSGBU0441392020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     CO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBU0441141010110 01     CL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSGBU0241082020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSGBU1141272020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641101020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0641102020210 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642101020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBU0642102020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0641222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSGBU0642222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSU0441201020210 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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WUMSWITSLBU1341392020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NO01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACAVATOLBU0332092020110 01 LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATOLBU0332092020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TOLBU1742282020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 HNO1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 HNO1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 LO01HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSABU0441201020110 01 ML01HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051020110 01 HNO1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSABU0441051020110 01 LO01HNO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 LO01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACWPATSABU0241032020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 ML01SNR1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 SNR1LO01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 SNR1ML01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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TVA   TSABU0641202020310 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSABU0641202020310 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABU0841341020310 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABU0841332020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSASU0441202020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSBBU0441182020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441041020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBU0441042020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     HNC1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1441282010310 01     ML01HNC1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBBU1442282010310 01     HNC1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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SPPNMOTSBSU0542282020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0242032020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSCBU0141022020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HNC1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HNC1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 LO01HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 ML01HNC1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.799
Total Annual Costs
Year: 2020

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ECAOOHTSEBU0442142020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.800
Total Annual Costs
Year: 2020

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VACANCTSGBU0641102020210 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642101020110 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SNR1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SNR1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HNO1LO01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HNO1ML01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 LO01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HNO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 LO01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01SNR1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
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MAPP  TSISU1142262020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     LO01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HNO1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HNO1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     LO01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     ML01HNO1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     SNR1ML01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     ML01SNR1       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SNR1LO01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431152020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431152020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431392020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MECS | TCOLU0431392020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0231082020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0241082050710 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431041020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431141020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431142020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431182020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431192020110 | 01 | HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431192020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431042050710 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0431042050710 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631051020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631202020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAO | TCOLU0631202020110 | 01 | HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| ECAOVA | TCOLU0331062020110 | 01 | HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MACW | TCOLU0231031020310 | 01 | HG06 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |
| MACW | TCOLU0231031020310 | 01 | HG02 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | | | | | |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.803
Total Annual Costs
Year: 2020

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MAPP  TCOLU1131252020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131252020210 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131262020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TCOLU1131262020310 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TCOLU0131022020110 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TCOLU0131022020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTCOLU1531132020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTCOLU1531132020110 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631041050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631041050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TCOLU0631102050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLU0631102020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLU0631102020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLU0331092050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TCOLU1731281020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TCOLU1731282020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTCOLU3531292050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTCOLU3531292050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  TCOLU0832372050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  TCOLU0832372050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLU0831331020310 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLU0831331020310 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TCOLU0831332050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TCOLU0831332050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
```

Total Annual Costs

Year: 2020

| | | |

SPPNMOTOLBU0531281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531281020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0531282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLBU0532281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTOLSU0542281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TRRBU0432042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSABU0441391020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSABU0441201020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSABU0441051020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSABU0641102020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSABU0641112020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641231020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU ALTSABU0641232020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSTSABU1641242020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841341020310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSABU0841342020310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0832332020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0841332020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSABU0841352020310 01 HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSASU0441392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941291020310 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941292020310 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU2341292020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSASU0441202020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSASU1331162020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWITSASU1332162020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1041292020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1042292020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU1041292020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

SPPS TSASU3641282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2341292020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU2342292020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSASU3541292020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PNW ORTSASU0842372020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0832342020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASU0841342020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241041020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0241042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632061020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0431042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| | | |

SOU MSTSBBU1641242020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1432282020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0431181020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0432181020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| | | |

SPPN TSCBU1732281010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSCBU1732282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0832342020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSO0441182010102 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MANOILTSDBU0441192020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1331392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1332392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1342392010210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSDSU1132252020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSDSU1132252020210 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSEBU0441392020110 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0441142020110 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSEBU0442142020110 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSEBU0442142020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0232032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0632232020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0641232020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSEBU0642232020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312010110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSELU0742312020110 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0431142020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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ECAO TSFSU0441202020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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ECAO TSHBU0641042020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSHBU1332162020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

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ECAOINTSKBU0432182020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441181010110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSKBU0441182020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0632102020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSKSU1141261010110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0432152020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0231052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0232052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0241052020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0432141020210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0432141020210 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG05            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBU0632182020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSLBU1341392020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSLBU0531281020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSLBU0531281020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSU0641222020110 01     HG11            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSXBU0441192020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSYBU0432191010210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0431192020110 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSZBU0432192010210 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CGCOU0431392050710 01     HG01            0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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CALI  CGCOU0832372050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0332092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEVATOLBO0341092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSO1332392020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSHBO0241081010302 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBO0632102020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ACI                        49           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLS0231411020703 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0231411020703 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     HG08        167.    1244.     85.0    12.80
 3.09    19.76    15.89     0.24    25.10     4.23    23.99    19.29
VACAVATCOLS0331092050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLS0331092050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   TABU 0711371030710 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TABS 0631042050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | Total | | | Capital | | FOM | | | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | | | | MMUS$ | | | mill/kWh | | US$/kW/a | | | | | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| TVA | TSWBS0642202030303 | | | | 01 | | | HG08 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MAPP | TSWLS0732312030103 | | | | 02 | | | HG09 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MAPP | TSWSS1132261030103 | | | | 01 | | | HG11 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| ECAOOHT | OLBS0432142020304 | | | | 01 | | | HG04 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MANO | TOLBS0432191010103 | | | | 01 | | | HG03 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MANO | TOLBS0432191010103 | | | | 01 | | | HG07 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MANO | TOLBS0432192010203 | | | | 01 | | | HG03 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MANO | TOLBS0432192010203 | | | | 01 | | | HG07 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| RMPA | TRRBS0832342030304 | | | | 01 | | | HG08 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MACWPA | TSABS0241032020103 | | | | 01 | | | HG03 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MACWPA | TSABS0241032020103 | | | | 01 | | | HG07 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| RMPA | TSABS0841341020303 | | | | 01 | | | HG08 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| RMPA | TSABS0841341020304 | | | | 01 | | | HG08 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| RMPA | TSABS0841342020303 | | | | 01 | | | HG08 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| RMPA | TSABS0841342020304 | | | | 01 | | | HG08 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| NWPE | TSABS0841352020104 | | | | 01 | | | HG01 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| ECAOOHT | SEBS0431141010103 | | | | 01 | | | HG03 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| ECAOOHT | SEBS0431141010103 | | | | 01 | | | HG07 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| MAPP | TSEBS1142252020103 | | | | 01 | | | HG07 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| FRCCFLT | SEBS1541132020103 | | | | 01 | | | HG03 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| FRCCFLT | SEBS1541132020103 | | | | 01 | | | HG07 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| WUMSWIT | SGBS1231392020104 | | | | 01 | | | HG05 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| WUMSWIT | SGBS1231392020104 | | | | 01 | | | HG01 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |
| FRCCFLT | SGBS1531132020103 | | | | 01 | | | HG03 | | | | | | | 0. | | 0. | N/A | | | | 0.00 | |
| 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | | 0.00 | | 0.00 | | | | | | |

FRCCFLTSGBS1531132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISS0541272020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841352020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| | | |

VACA TSXBS0641101020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841402020103 01 HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841332020303 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBS0841362020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2341302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXLS2342302030303 02 HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSLATSXLS1041302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSXLS2341302020103 02 HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS1941292020303 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXTSXSS2341292020303 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSXSS3541292020103 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSXSS3642282020104 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0841351020303 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0841352020203 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0841352020303 01 HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842351020203 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842351020703 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842352020203 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM TSXSS0842352020703 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSXSS0832402020104 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSXSS0741322020703 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSXSS0742322020703 01 HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSYBS0432192020204 01 HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSYBS0432192020204 01 HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSYBS0441192020103 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSYBS0441192020103 01 HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSYBS0441042020103 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSYBS0241412020103 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSYBS0241412020103 01 HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSYBS0441191010103 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSYBS0441191010103 01 HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSYBS1741281010703 01 HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN TSYBS1741281010703 01 HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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SPPN  TSYBS1741282020703 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1741282020703 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYBS1742282020703 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1141262020304 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1142262020203 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSYSS1142262020703 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1741282020304 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSYSS1742282020103 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBS0431142010103 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBS0431142010103 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBS0241032020203 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBS1541121020103 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBS1541122020103 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWYTSZLS0841322020103 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPAWYTSZLS0841322020103 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0841322020703 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPEWYTSZLS0842322020104 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOS0631041050303 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CGCOS0631041050303 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOS0231412050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOS0231412050304 01     HG08          42.     307.     83.5     7.64
 3.07     3.29    10.71     0.36    47.90     2.03     5.32    17.30
MACW  CGCOS0232412050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOS0232412050304 01     HG08         100.     731.     83.5     9.89
 3.10     9.50    12.99     0.36    34.40     3.48    12.98    17.74
UPNY  CGCOS0131022050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOS0131022050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCGCOS3141012050703 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCGCOS3141012050703 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOS0331092050304 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOS0331092050304 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: Syste
m Page: 3.816
Total Annual Costs
Year: 2020

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Cos
ts Fixed Costs Total Costs
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---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---
Capacity Gener. C.F. Fuel
VOM Total Capital FOM Total Total
Unit Name [MW] [GWh] [%] mill/kWh mil
l/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---
MAPP TSASS0732312020703 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSASS0841342020303 01 HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBS0441041020304 01 HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBS0441041020304 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSS0542282020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PNW WATSBSS0741372020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSDSS0541282020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESS1741282020103 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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Ret.ExistScrub&ACI 50 309. 2282. 84.3 11.17
3.09 32.55 14.26 0.30 31.21 9.73 42.28 18.53

NENGNHTSABC2941011010101 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABC0641232020101 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBC0641061020101 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSDBC0441041020101 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSDBC0441041020101 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSDBC0441042020101 01 HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSDBC0441042020101 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBC0641101020101 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSEBC0641042020101 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSEBC0641042020101 01 HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBC0241072020101 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBC0241072020201 01 HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBC0441181010101 01 HG01 0. 0. N/A 0.00
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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020401 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSFBC0641112020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241411020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSHBC0241412020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBC0641112020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBC0641062020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBC0441041020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBC0441041020201 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641101020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBC0341092020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBC0441041020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSCBC0441041020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBC0641212020201 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSGBC0641102020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSKBC0641232020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSKBC0641232020101 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSLBC0441181020101 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSBBN0641102020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341091020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSBBN0341092020202 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBN0441042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBN0441142020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBN2842012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGNHTSLBN2932012020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSZBN0241031020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASN3642282020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSFBN0641042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSFBN0131022020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSGBN0441142020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441041020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020102 01     HG01           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020102 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     HG02           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSHBN0441042020302 01     HG12           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ExistSNCR&ACI              52               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| | | |

MANOMOTSABU0541252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 SCR2HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU1041292020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASU3641282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPSTXTSASU2341292020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU2342292020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXTSASU3541292020310 01 SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW ORTSASU0842372020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSASU0841342020310 01 SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0742322020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0841322020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE TSASU0842322020110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBBU0441392020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 SCR2HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241041020110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241042020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0241042020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSBBU0641062020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSBBU0441182020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441041020110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441041020110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441042020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSBBU0441042020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSBBU0441181010110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSBBU0441181010110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPPNETSBBU1441282010310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SCR2HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020110 02 SCR1HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2241302020410 02 SCR1HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBLU2242302020410 02 SCR1HG10 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPSDTSBLU0742261010110 02 SCR2HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSBSU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSBSU2341292020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0432172010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSBSU0441172020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.820
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPPNETSBSU1441282020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020510 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0241032020310 01 SCR1HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW TSCBU0242032020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSCBU0141022020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSCBU0641102020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSCBU0641212020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSCBU0641232020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA TSCBU0841342020310 01 SCR1HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1242162020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341161010110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

WUMSWITSCSU1342162020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442182010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0442202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 SCR1HG11 0. 0. N/A 0.00
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MECS TSDBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
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ECAO TSDBU0641062020110 01 SCR1HG01 0. 0. N/A 0.00
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ECAOVATSDBU0341061020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDBU1241162020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441191020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSDBU0441192020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSDBU0541252020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541131020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSDBU1541132020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| | | |

MAPPNDTSELU0742312020110 02 SCR1HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESU1741282020110 01 SCR1HG11 0. 0. N/A 0.00
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ECAO TSFBU0441142020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFBU0441142020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSFBU0441201010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641201020210 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOKYTSFBU0641202020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641041020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.822
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECAOOHTSGBU0441141010110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBU0441142020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACS TSGBU0241082020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSGBU1141272020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSGBU1141272020210 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY TSGBU0141022020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641101020210 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0641102020210 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642101020110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSGBU0642102020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0641222020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0642222020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSGBU0642222020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSGSU0441201020210 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441041020110 01 SCR2HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441041020110 01 SCR2HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441042020110 01 SCR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441042020110 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBU0441182020110 01 SCR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAO TSHBU0441182020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SCR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 SCR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBU0241412020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSHBU0441192020110 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SCR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 SCR2HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 SCR2HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 SCR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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NWPE  TSXBU0841402020110 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGCOU1541132050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ACI & SCR                   53               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

VACANCTCOLS0641102050304 01     SCR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTCOLS0641102050304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSWBS0642202030303 01     SCR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TRRBS0832342030304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABS0241032020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841341020304 01     SCR2HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841342020303 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSABS0841342020304 01     SCR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSABS0841352020104 01     SCR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBS1142252020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSEBS1541132020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSEBS1541132020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SCR1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSGBS1541132020103 01     SCR1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISS1141262020703 01     SCR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| | | |

ECAO TSXBS0441142020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441191020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641101020103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 SCR1HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSXBS0641102020304 01 SCR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0641222020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641291020203 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSXBS1641292020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020303 01 SCR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0842362020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.825
Total Annual Costs
Year: 2020

| Unit | Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total Variable Costs MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total Fixed Costs MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NWPE | TSXBS0841332020103 01 SCR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSXBS0841402020103 01 SCR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSXBS0841332020303 01 SCR1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE | TSXBS0841362020304 01 SCR1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCT | TXTSXLS2341302020103 02 SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCT | TXTSXLS2342302020103 02 SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCT | TXTSXLS2342302030303 02 SCR1HG10 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | NDTSXLS0741311020103 02 SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | NDTSXLS0742311010103 02 SCR2HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | NDTSXLS0742312010304 02 SCR2HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | NDTSXLS0742312020304 02 SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | LATSXLS1041302020103 02 SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | TXTSXLS2341302020103 02 SCR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCT | TXTSXSS1941292020303 01 SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCT | TXTSXSS2341292020103 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCT | TXTSXSS2341292020303 01 SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCT | TXTSXSS3541292020103 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | TSXSS3642282020104 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSXSS0841351020303 01 SCR2HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSXSS0841352020203 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSXSS0841352020303 01 SCR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSXSS0842351020203 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSXSS0842351020703 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSXSS0842352020203 01 SCR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

AZNM TSXSS0842352020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0741322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSYBS0441042020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 SCR2HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1742282020703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1141262020304 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020203 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSYSS1142262020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1741282020304 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYSS1742282020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSZBS0241032020203 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541121020103 01 SCR2HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBS1541122020103 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWYTSZLS0841322020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPAWYTSZLS0841322020103 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0841322020703 01 SCR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPEWYTSZLS0842322020104 01 SCR2HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 SCR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCOS3141012050703 01 SCR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capital Total Gener. Total C.F. Fuel
Unit Name [MW] [GWh] [%] mill/kWh mill/kWh MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
RMPA TSASS0841342020303 01 SCR1HG12 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBS0441041020304 01 SCR2HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBS0441041020304 01 SCR2HG08 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSS0542282020103 01 SCR1HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PNW WATSBSS0741372020103 01 SCR1HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSDSS0541282020103 01 SCR1HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESS1741282020103 01 SCR2HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret.ExistScrub&ACI&SCR 54 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

MECS TCOLU0431152020110 01 SNR1HG01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TCOLU0431152020110 01 SNR1HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TCOLU0431392020110 01 SNR1HG01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TCOLU0431392020110 01 SNR1HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0231082020110 01 SNR1HG01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431041020110 01 HNO1HG05 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431041020110 01 HNO1HG01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431041020110 01 HNO1HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431141020110 01 HNO1HG05 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431141020110 01 HNO1HG01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431141020110 01 HNO1HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431142020110 01 SNR1HG05 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431142020110 01 SNR1HG01 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431142020110 01 SNR1HG11 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLU0431182020110 01 SNR1HG05 0. 0. N/A 0.00
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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431182020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431182020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431192020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431042050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0431042050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631051020110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631202020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TCOLU0631202020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOVATCOLU0331062020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     HNO1HG06       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231031020310 01     HNO1HG02       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231032020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0231412050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  TCOLU0241412050710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMS  TCOLU0411392020710 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWITCOLU1331392020110 01     SNR1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0431192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TCOLU0442192020110 01     SNR1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU0731311040110 01     HNO1HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TCOLU1131261040110 01     HNO1HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.827
Total Annual Costs
Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| | | | | | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MAPP | TCOLU1131261040110 | 01 | HNO1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131262020110 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131272020110 | 01 | SNR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131272020110 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131272020110 | 01 | SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131252020210 | 01 | SNR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131252020210 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131252020210 | 01 | SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131262020310 | 01 | SNR1HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TCOLU1131262020310 | 01 | SNR1HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | TCOLU0131022020110 | 01 | SNR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | TCOLU0131022020110 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | TCOLU1531132020110 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | TCOLU1531132020110 | 01 | SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | TCOLU0631041050710 | 01 | HNO1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | TCOLU0631041050710 | 01 | HNO1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | TCOLU0631102050710 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCT | COLU0631102020110 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCT | COLU0631102020210 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVAT | COLU0331092050710 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TCOLU1731281020310 | 01 | HNO1HG02 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TCOLU1731282020110 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TCOLU3531292050710 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | TCOLU3531292050710 | 01 | SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

CALI TCOLU0832372050710 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI TCOLU0832372050710 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 HNO1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLU0831331020310 01 HNO1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TCOLU0831332050710 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0631191040110 01 HNO1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0631191040110 01 HNO1HG01 0. 0. N/A 0.00
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ECAO TOLBU0632051020110 01 HNO1HG01 0. 0. N/A 0.00
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ECAO TOLBU0632052020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632192020210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0632192020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TOLBU0641052020110 01 SNR1HG01 0. 0. N/A 0.00
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ECAOMDTOLBU0231082020110 01 SNR1HG01 0. 0. N/A 0.00
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ECAOOHTOLBU0432142020110 01 SNR1HG05 0. 0. N/A 0.00
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ECAOOHTOLBU0432142020710 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TOLBU0231032020110 01 SNR1HG01 0. 0. N/A 0.00
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MACW TOLBU0232032050110 01 SNR1HG01 0. 0. N/A 0.00
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MANO TOLBU0432192010210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TOLBU0432192010210 01 SNR1HG01 0. 0. N/A 0.00
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MANOMOTOLBU0532281010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTOLBU0532281010110 01 HNC1HG01 0. 0. N/A 0.00
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MANOMOTOLBU0532281010110 01 HNC1HG11 0. 0. N/A 0.00
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MAPP TOLBU1141252020110 01 SNR1HG01 0. 0. N/A 0.00
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MAPP TOLBU1141252020110 01 SNR1HG11 0. 0. N/A 0.00
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MAPPMOTOLBU0532281010110 01 HNC1HG05 0. 0. N/A 0.00
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MAPPMOTOLBU0532281010110 01 HNC1HG01 0. 0. N/A 0.00
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MAPPMOTOLBU0532281010110 01 HNC1HG11 0. 0. N/A 0.00
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VACANCTOLBU0632101020210 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBU0632102020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATOLBU0332092020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| | | |

RMPA TSABU0841341020310 01 HNO1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1331162020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSASU1332162020110 01 SNR1HG11 0. 0. N/A 0.00
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RMPA TSASU0832342020310 01 SNR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0742322020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0841322020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HNO1HG11 0. 0. N/A 0.00
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ECAO TSBBU0632061020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0632062020110 01 SNR1HG01 0. 0. N/A 0.00
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ECAO TSBBU0641062020110 01 SNR1HG01 0. 0. N/A 0.00
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ECAOINTSBBU0441182020110 01 SNR1HG05 0. 0. N/A 0.00
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ECAOOHTSBBU0431042020110 01 SNR1HG01 0. 0. N/A 0.00
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ECAOOHTSBBU0431042020110 01 SNR1HG11 0. 0. N/A 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 HNC1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 HNC1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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MAPP  TSCBU1131252020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0631102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1731282010310 01     HNC1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     HNC1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     HNC1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0832342020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     HNC1HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     HNC1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

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UPNY TSFBU0131022020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 HNO1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 SNR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 SNR1HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 SNR1HG02 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 HNC1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

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VACA  TSHBU0641102020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSHBU0641102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBU0632222020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSHBU0632222020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSHSU0432392020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0432392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0432392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0441392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSIBU0442392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1132262020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1132262020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSISU1142262020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG06       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSJBU0441202020410 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020110 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0431392020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0432392020310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  TSJBU0432392020310 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0432252020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSJBU0432252020210 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSKBU0432182020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSKBU0432182020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0632102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSKBU0641102020210 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0432152020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECSMITSLBU0441152020110 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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MACW  CGCOU0232412050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0232412050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOU0241412050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOU0131022050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CGCOU0931012050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  CGCOU0631102050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOU0631102050310 01     SNR1HG02       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOU0631102050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0331092050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0831372050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0831372050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0832372050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOU0832372050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     SNR1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCOU0731322050710 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  CGSDU1131251020210 01     HNO1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ACI & SNCR                 55               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLS0231411020703 01     HNO1HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0231411020703 01     HNO1HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLS0631041050303 01     HNO1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     SNR1HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLS0231412050304 01     SNR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITCOLS1231391020104 01     HNO1HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| | | |

WUMSWITSGBS1231392020104 01 SNR1HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1531132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1532132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSGBS1541132020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 SNR1HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 HNO1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 HNO1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0642201020103 01 HNO1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 SNR1HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSXBS0432392020304 01 SNR1HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBS0441192020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSXBS1142272020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSXBS0141022020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SNR1HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSXBS0642112020103 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXBS0841362020703 01 SNR1HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.834
Total Annual Costs
Year: 2020

| Unit | Name | | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AZNM | TSXBS0842362020703 | 01 | SNR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTX | TSXLS2342302030303 | 02 | SNR1HG10 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPND | TSXLS0732312020304 | 02 | SNR1HG09 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | TSXSS0842352020703 | 01 | SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | TSXSS0832402020104 | 01 | SNR1HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSYBS0432192020204 | 01 | SNR1HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSYBS0432192020204 | 01 | SNR1HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSYBS0441191010103 | 01 | HNC1HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSYBS0441191010103 | 01 | HNC1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSYBS1742282020703 | 01 | SNR1HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | TSYBS1742282020703 | 01 | SNR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSZBS0431142010103 | 01 | SNR1HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSZBS0431142010103 | 01 | SNR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | CGCOS0631041050303 | 01 | HNO1HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | CGCOS0631041050303 | 01 | HNO1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | CGCOS0231412050304 | 01 | SNR1HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | CGCOS0231412050304 | 01 | SNR1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | CGCOS0232412050304 | 01 | SNR1HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW | CGCOS0232412050304 | 01 | SNR1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | CGCOS0131022050304 | 01 | SNR1HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | CGCOS0131022050304 | 01 | SNR1HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCGCOS | 3141012050703 | 01 | SNR1HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCGCOS | 3141012050703 | 01 | SNR1HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACGCOS | 0331092050304 | 01 | SNR1HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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VACAVACGCOS0331092050304 01     SNR1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSASS0732312020703 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASS0841342020303 01     SNR1HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     HNO1HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSBBS0441041020304 01     HNO1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSS0542282020103 01     SNR1HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
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Ret.ExistScrub&ACI&SNCR       56               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TCOLU0241082050710 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0241082050710 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLU0442192020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  TCOLU1041292050210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.835
Total Annual Costs
Year: 2020

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ERCTTXTSABU2341292020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSABU2341292020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABU0241032020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSABU0441182020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0541252020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSABU0542252020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1141282010210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.836
Total Annual Costs
Year: 2020

| | | |

NWPE TSABU0841332020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 ML01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSASU0441202020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1041292020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TSASU1042292020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| | | | | | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| ENTG | TSASU1042292020110 | 01 | LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ENTG | TSASU1042292020110 | 01 | LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| ENTG | TSASU1042292020110 | 01 | LD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPS | TSASU1041292020210 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPS | TSASU1041292020210 | 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPS | TSASU1041292020210 | 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPS | TSASU1041292020210 | 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPS | TSASU3641282020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPS | TSASU3641282020110 | 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPS | TSASU3641282020110 | 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPS | TSASU3641282020110 | 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU2341292020210 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU2341292020210 | 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU2341292020210 | 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU2341292020210 | 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU2342292020210 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU2342292020210 | 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU2342292020210 | 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU2342292020210 | 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU3541292020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU3541292020110 | 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU3541292020110 | 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU3541292020110 | 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| SPPSTXT | SASU3541292020310 | 01 | LO01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |

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SPPSTXTSASU3541292020310 01     ML02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     ML02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     ML02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0842322020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBBU0441392020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241041020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0241042020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBU0641062020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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TVA   TSBBU0641212020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSBBU0641212020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641112020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSBBU0641242020210 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641241020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSTSBBU1641242020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841361020310 01     ML01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  TSBBU0841362020210 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSBBU0841332020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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MANO TSBSU0441172020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1441282020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBSU1442282020510 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSU0542282020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSCBU0441182020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBU0441041020210 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBU0441041020210 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 LO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSCBU0241032020310 01 ML02HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| | | |

WUMSWITSCSU1242162020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 LO01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020510 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1342162020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441182010110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSCSU0441202020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| | | | | | | | | | | | | | | | Total | | | | | | | | |
| | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | | |
| | | | | | | | | | | | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| MANO | TSCSU0442182010110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MANO | TSCSU0442182010110 | 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MANO | TSCSU0442182010110 | 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MANO | TSCSU0442182010110 | 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MANO | TSCSU0442202020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MANO | TSCSU0442202020110 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MANO | TSCSU0442202020110 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MANO | TSCSU0442202020110 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1141251020210 | 01 | LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1141251020210 | 01 | LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1141251020210 | 01 | LD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1141252020110 | 01 | LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1141252020110 | 01 | LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1141252020110 | 01 | LD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1141252020210 | 01 | LD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1141252020210 | 01 | LD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1141252020210 | 01 | LD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1142252020210 | 01 | ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1142252020210 | 01 | ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPP | TSCSU1142252020210 | 01 | ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPPWIT | SCSU1342162020210 | 01 | ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPPWIT | SCSU1342162020210 | 01 | ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MAPPWIT | SCSU1342162020210 | 01 | ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |
| MECS | TSDBU0441392020110 | 01 | LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | | | | |

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MECS  TSDBU0441392020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSDBU0441392020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBU0641062020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVATSDBU0341061020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSMDTSDBU0241081020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDBU1241162020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441191020110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOILTSDBU0441192020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTSDBU0541252020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSDBU1541131020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FRCCFLTSDBU1541132020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSDBU0641102020110 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0641222020110 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSDBU0642222020210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDSU1341392010210 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

WUMSWITSDSU1342392010210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSEBU0241072020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSEBU0442181010110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSEBU1141252020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBU2841012020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACASCTSEBU0641102020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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MANO  TSESU0441172020310 01     ML01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSESU1141261010110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641111020210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSESU0641112020210 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSESU1741282020110 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSFBU0441142020110 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSFBU0441201010110 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641201020210 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOKYTSFBU0641202020210 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | |
| VOM | | | | | | | | | | | | Total | | Capital | FOM | Total | | Total | | | | | |
| Unit | Name | | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | mil | | | |
| l/kWh | | | | | | | | | | | | MMUS$ | mill/kWh | US$/kW/a | US$/kW/a | MMUS$ | MMUS$ | mill/kWh | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| ECAO | KYTSFBU | 0641202 | 020210 | 01 | | | | | | | ML02HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | WVTSFBU | 0641041 | 020110 | 01 | | | | | | | LD01HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | WVTSFBU | 0641042 | 020110 | 01 | | | | | | | LD01HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | MOTSFBU | 0542251 | 010110 | 01 | | | | | | | LO01HG03 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | MOTSFBU | 0542251 | 010110 | 01 | | | | | | | ML02HG03 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | MOTSFBU | 0542251 | 010110 | 01 | | | | | | | ML02HG07 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MANO | MOTSFBU | 0542251 | 010110 | 01 | | | | | | | ML02HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SOU | TSFBU | 0641112 | 020110 | 01 | | | | | | | LO01HG03 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SOU | TSFBU | 0641112 | 020110 | 01 | | | | | | | ML01HG03 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SOU | TSFBU | 0641112 | 020110 | 01 | | | | | | | ML01HG07 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SOU | TSFBU | 0641112 | 020110 | 01 | | | | | | | ML01HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SOU | TSFBU | 0642112 | 020110 | 01 | | | | | | | LO01HG03 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SOU | TSFBU | 0642112 | 020110 | 01 | | | | | | | ML01HG03 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SOU | TSFBU | 0642112 | 020110 | 01 | | | | | | | ML01HG07 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SOU | TSFBU | 0642112 | 020110 | 01 | | | | | | | ML01HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPN | TSFBU | 1742282 | 020110 | 01 | | | | | | | LO01HG03 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPN | TSFBU | 1742282 | 020110 | 01 | | | | | | | ML01HG03 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPN | TSFBU | 1742282 | 020110 | 01 | | | | | | | ML01HG07 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| SPPN | TSFBU | 1742282 | 020110 | 01 | | | | | | | ML01HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSFSU | 0441202 | 020110 | 01 | | | | | | | LO02HG03 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSFSU | 0441202 | 020110 | 01 | | | | | | | LD02HG05 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSFSU | 0441202 | 020110 | 01 | | | | | | | LD02HG01 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| ECAO | TSFSU | 0441202 | 020110 | 01 | | | | | | | LD02HG11 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |
| MECS | MITSGBU | 0441392 | 020110 | 01 | | | | | | | ML01HG07 | | | | | 0. | 0. | N/A | 0.00 | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | |

MECSMITSGBU0441392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

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ECAO TSHBU0441041020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 LD01HG01 0. 0. N/A 0.00
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ECAO TSHBU0441041020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 ML01HG11 0. 0. N/A 0.00
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0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 ML01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641042020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641182020110 01 ML01HG11 0. 0. N/A 0.00
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ECAO TSHBU0642181020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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MECS TSIBU0442392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

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ECAO TSLBU0241052020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0141012050710 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSDBC0641061020101 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441041020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSDBC0441042020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LO02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTSDBC0641101020101 01     LD02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LO02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     LD02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     LD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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SOU TSHBC0641112020101 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020101 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBC0641062020201 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBC0441041020201 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBC0441041020201 01 LD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641101020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 LD02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.850
Total Annual Costs
Year: 2020

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ECAO  TSGSC0441201020101 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSGSC0441201020101 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSIBC0441041020101 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistSCR&ACI&Scrub         58               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MACEDETSABN0241032020102 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241041020102 01     ML02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSBBN0241042020102 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSBBN0241032020102 01     ML01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACENJTSBBN0141031010102 01     LO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MACENJTSBBN0141031010102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSBBN0641102020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 ML01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEDETSCBN0241032020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSO0441182010102 01 ML02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBN0441042020102 01 LO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSDBN0441042020102 01 ML01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

ECAOOHTSDBN0441042020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSDBN2841012020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBN0441142020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSEBN2842012020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBO0141022020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSZBN0241031020102 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSASN3642282020102 01 ML02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 ML01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBN0641042020102 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBN0441142020102 01 LO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBN0441142020102 01 LD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSXBD0341092020307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATSXBD0341092020307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOD0231412050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CGCOD0231412050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CGCOD0131022050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCCGCOD0631102050308 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCOD0831372050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSZBD0241032020707 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TCOLD0431182050307 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     HG04           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATCOLD0331092050308 01     HG08           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBD2831012020107 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistSNCR&ExistScrub&ACI  60               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

ECAO  TSYBA0441192020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSYBA0441192020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSYBA0441041020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSYBA0141022020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSYBA0141022020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSYBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBA0641202020205 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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VACAWVTSABA0641052020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAWVTSABA0641052020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBA0641051020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSZBA0641051020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLTSZBA1541122020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSZBA0641052020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSZBA0641052020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLA0641202020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLA0241052050705 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLA0241052050705 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA MSTCOLA1641242020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTCOLA0541252020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTCOLA0541252020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TCOLA0831402020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSFBA0241412020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSFBA0241412020105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSCSA0541282020306 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSVBA0641201010105 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441181020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     HG01         642.    4781.     85.0    11.29
 4.16    73.86    15.45     4.68    49.40    34.72   108.58    22.71
MACE  TSDBA0141011020206 01     HG05           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     HG03           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     HG11           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.ExistSCR&ExistScrub&ACI   61            1242.    9248.     85.0    11.43
 4.16   144.25    15.60     4.39    48.87    66.15   210.40    22.75

ECAO  TSXBE0232041020207 01     HG07           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  TOLBU1141252020110 01     RL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPN  TOLBU1742282020110 01     RL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
SPPNMOTOLSU0542281010110 01     SL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MECS  TSABU0441391020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAO  TSABU0441201020110 01     SL01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTSABU0441051010110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ECAOOHTSABU0441051020110 01     SO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXTSABU2341292020210 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RL01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACWPATSABU0241032020110 01     RL01HG07       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG05       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG01       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RD01HG11       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  TSABU0441182020110 01     RO01HG03       0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MANOMOTSABU0541252020110 01 RD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0541252020110 01 RD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0542252020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSABU0542252020110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1141282010210 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1142282020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1142282020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP TSABU1142282020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0141012020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNYNYTSABU0142012020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTTSABU3241012020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABU0641102020210 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABU0641102020210 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABU0641102020210 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSABU0641102020210 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 RO01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 RL01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 RL01HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA TSABU0641202020310 01 RL01HG12 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

SOU TSABU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 SD01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.856
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXTSASU1941291020310 01 SD01HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941291020310 01 SD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941291020310 01 SO01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941292020310 01 RD01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941292020310 01 RD01HG08 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941292020310 01 RD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU1941292020310 01 RO01HG04 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU2341292020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU2341292020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU2341292020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSASU2341292020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSASU0441202020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSASU0441202020110 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSASU0441202020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSASU0441202020110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1041292020110 01 RD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1041292020110 01 RD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1041292020110 01 RD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1041292020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1042292020110 01 RD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1042292020110 01 RD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1042292020110 01 RD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG TSASU1042292020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS TSASU1041292020210 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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SPPS  TSASU1041292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU1041292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  TSASU3641282020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2341292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU2342292020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RO01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXTSASU3541292020310 01     RL02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW ORTSASU0842372020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSASU0841342020310 01     RL02HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0742322020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSASU0841322020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.857
Total Annual Costs
Year: 2020

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ECAOOHTSBBU0441041020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 SL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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MAPPSDTSBLU0742261010110 02     SL02HG09       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSBSU0441392020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXTSBSU2341292020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020110 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSBSU0441172020210 01     RL02HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020110 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG05       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1441282020210 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG01       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPNETSBSU1442282020510 01     RD01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     RO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSBSU0542282020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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VACA TSCBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSCBU0641102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBU0641212020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSCBU0641232020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSCBU0841342020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1242162020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341161010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSCSU1341162020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.860
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSCSU1341162020510 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1341162020510 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSCSU1342162020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441182010110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0441202020110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442182010110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSCSU0442202020110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MAPP TSCSU1141251020210 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141251020210 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1141252020210 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSCSU1142252020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSCSU1342162020210 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSDBU0441392020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSDBU0641062020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOVATSDBU0341061020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSDBU0641051010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACSMDTSDBU0241081020110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.861
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| WUMSWITSDBU1241162020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWITSDBU1241162020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 SL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441191020110 01 SL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOILTSDBU0441192020110 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOTSDBU0541252020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SD01HG05 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SD01HG01 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SD01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541131020110 01 SO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RL02HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RL02HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020110 01 RL02HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RO01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RL01HG03 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RL01HG07 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLTSDBU1541132020210 01 RL01HG11 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

VACANCTSDBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSDBU0641102020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSDBU0642222020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1341392010210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSU1342392010210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSEBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0441142020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSEBU0442142020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSEBU0241032020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| | | |

MAPPNDTSELU0742312020110 02 RL01HG09 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441171010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSESU0441172020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172010110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSESU1141261010110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641111020210 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSESU0641112020210 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.863
Total Annual Costs
Year: 2020

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SOU TSFBU0641112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RD02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RO02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.864
Total Annual Costs
Year: 2020

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VACANCTSGBU0642102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0642102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSGBU0642222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSGSU0441201020210 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441041020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441182020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 RL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.865
Total Annual Costs
Year: 2020

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MANOILTSHBU0441192020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 SL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RL02HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | | Fuel | | | | |
| VOM | | | | | Total | | | Capital | | FOM | | | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | | mill/kWh | | | mill/kWh | |
| | | | | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | | | MMUS$ | MMUS$ | | mill/kWh | | | | | |
| ECAO | TSJBU0441051020110 | 01 | | | | | | | | SD01HG05 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSJBU0441051020110 | 01 | | | | | | | | SD01HG01 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSJBU0441051020110 | 01 | | | | | | | | SD01HG11 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSJBU0441051020110 | 01 | | | | | | | | SO01HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSJBU0441202020410 | 01 | | | | | | | | RO01HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSJBU0441202020410 | 01 | | | | | | | | RL01HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSJBU0441202020410 | 01 | | | | | | | | RL01HG07 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSJBU0441202020410 | 01 | | | | | | | | RL01HG11 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSJBU0441252020110 | 01 | | | | | | | | RO01HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSJBU0441252020110 | 01 | | | | | | | | RL02HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSJBU0441252020110 | 01 | | | | | | | | RL02HG07 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSJBU0441252020110 | 01 | | | | | | | | RL02HG11 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSJBU0441252020210 | 01 | | | | | | | | RO01HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSJBU0441252020210 | 01 | | | | | | | | RL02HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSJBU0441252020210 | 01 | | | | | | | | RL02HG07 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| MANO | TSJBU0441252020210 | 01 | | | | | | | | RL02HG11 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| SPPNMOT | SJBU0541281010110 | 01 | | | | | | | | SO01HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| SPPNMOT | SJBU0541281010110 | 01 | | | | | | | | SL02HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| SPPNMOT | SJBU0541281010110 | 01 | | | | | | | | SL02HG07 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| SPPNMOT | SJBU0541281010110 | 01 | | | | | | | | SL02HG11 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSKBU0441042020110 | 01 | | | | | | | | RO01HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSKBU0441042020110 | 01 | | | | | | | | RL02HG03 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSKBU0441042020110 | 01 | | | | | | | | RL02HG07 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |
| ECAO | TSKBU0441042020110 | 01 | | | | | | | | RL02HG11 | | | | | 0. | 0. | | N/A | | | | 0.00 | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | | | | | |

MANO TSKBU0441181010110 01 SD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441181010110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG05 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG01 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RD01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSKBU0441182020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSKBU0641102020210 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSKSU1141261010110 01 SL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSLBU0441152020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSLBU0241052020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSLBU1341392020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 SL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.867
Total Annual Costs
Year: 2020

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SPPNMOTSUBU0541272020110 01     RL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
Ret.SCR & Scrub & ACI         63               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MACW  TCOLU0241412050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TCOLU0241412050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1742282020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSABU0441201020110 01     HL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSABU0441051020110 01     HO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSABU0241032020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSABU1141282010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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NWPE TSASU0842322020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSASU0842322020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBU0641062020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSBBU0441182020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 CL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 CL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 NL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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TVA   TSCBU0641212020210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG04       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG08       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     NL01HG12       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOWVTSDBU0641051010110 01     CL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0641222020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSDBU0642222020210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2020

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ECAO TSESU0441172020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NO01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NL01HG04 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSESU0441172020310 01 NL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 CL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.871
Total Annual Costs
Year: 2020

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ECAO TSHBU0441042020310 01 NL01HG08 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0441042020310 01 NL01HG12 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0641041020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642181020110 01 HL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSHBU0642182020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NO01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG07 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 NL01HG11 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 NL01HG03 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

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ECAO  TSXBU0641041020110 01     HL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBU0641041020110 01     HL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  TSXBU0841402020110 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGCOU0141012050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVACGCOU0341092050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NO01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG03       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG07       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  CGCOU3641282050710 01     NL01HG11       0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Ret.SNCR & Scrub & ACI        64               0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.873
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXSTGAU2211 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2221 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2511 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2521 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXSTGAU2711 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0111 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0121 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0211 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE STGAU0221 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS STGAU0412 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWISTGAU1311 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWISTGAU1321 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO STGAU0411 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO STGAU0421 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOSTGAU0511 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STGAU1111 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STGAU1112 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP STGAU1121 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOSTGAU0511 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNESTGAU1411 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWISTGAU1311 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY STGAU0121 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC STGAU0121 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC STGAU0121 000000 00 SCO1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

NENG STGAU0111 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0911 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STGAU0921 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTGAU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTGAU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTGAU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA STGAU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STGAU0611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STGAU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTGAU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STGAU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STGAU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTGAU1611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STGAU1711 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STGAU1721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTGAU0511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTGAU0521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STGAU3621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSMSSTGAU1611 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2211 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU2521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXSTGAU3511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0811 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STGAU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0811 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STGAU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.874
Total Annual Costs
Year: 2020

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NENG STHSU2821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STHSU2822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHSTHSU2922 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1522 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTHSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU2721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU3421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1711 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1712 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1721 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.875
Total Annual Costs
Year: 2020

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MAPPNESTLSU1412 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNESTLSU1421 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNESTLSU1422 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC STLSU0122 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STLSU0121 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STLSU0922 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG STLSU2821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTLSU3221 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTLSU3222 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1511 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1512 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTLSU1522 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVASTLSU0321 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVASTLSU0322 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTLSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSSTLSU1622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STLSU1021 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG STLSU1022 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTLSU1621 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTLSU1622 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTLSU1821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTLSU0512 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOSTLSU0521 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU0821 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU0822 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS STLSU1011 000000 00 SCO1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.876
Total Annual Costs
Year: 2020

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FRCCFLCGGAU1511   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   CGGAU0611   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  CGGAU1011   000000 00     SCO1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
---------------------------------------- -------- -------- -------- -------- ---
----- -------- -------- -------- -------- -------- -------- --------
Ret.O/G SCR                   65              0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2711   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0111   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0121   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STGAU0221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  STGAU0412   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1311   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWISTGAU1321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  STGAU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOSTGAU0511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.877
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SPPN  STGAU1721   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTGAU0511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTGAU0521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3611   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STGAU3621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTGAU1611   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTGAU3511   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAU0811   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  STGAU0811   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  STGAU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0811   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  STGAU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  STGAU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0411   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0421   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STHSU0422   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU1821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2021   000000 00     SCN1         185.     195.     12.0    28.14
 3.02     6.08    31.16     0.72    20.70     3.97    10.05    51.48
ERCTTXSTHSU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSU2421   000000 00     SCN1         795.     838.     12.0    27.48
 3.02    25.56    30.50     0.84    20.30    16.81    42.36    50.55
ERCTTXSTHSU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0112   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0121   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  STHSU0211   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.878
Total Annual Costs
Year: 2020

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SPPN STHSU1721 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2122 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2212 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2221 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2222 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2321 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2322 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2422 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2511 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2512 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2522 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3521 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU3522 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0121 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0122 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STLSU0221 000000 00 SCN1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.879
Total Annual Costs
Year: 2020

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FRCCFLSTLSU1521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLSTLSU1522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0321   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVASTLSU0322   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU MSSTLSU1622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  STLSU1022   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMSSTLSU1622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGTXSTLSU1821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0512   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOSTLSU0521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1011   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1012   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1021   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU1022   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3612   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3621   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPS  STLSU3622   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSMSSTLSU1612   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2221   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2222   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2521   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU2522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPSTXSTLSU3522   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0821   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSU0822   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   STLSU0721   000000 00     SCN1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.880
Total Annual Costs
Year: 2020

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  
Variable Costs
Fixed Costs Total Costs
VOM Total Capital FOM Capacity Total [MW] Gener. Total [GWh] C.F. Total [%] Fuel mill/kWh mill/kWh
Unit Name MMUS$ mill/kWh US$/kW/a US$/kW/a MMUS$ MMUS$ mill/kWh
AZNM STLSU0812 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STLSU0821 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM STLSU0822 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNMTXSTLSU2621 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE STLSU0821 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE STLSU0822 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXCGGAU1811 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGGAU0221 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGGAU0411 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGGAU1511 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA CGGAU0611 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG CGGAU1011 000000 00 SCN1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
Ret.O/G SNCR 66 980. 1033. 12.0 27.60 3.02 31.64 30.62 0.82 20.38 20.77 52.42 50.72

Ret.Nuclear (age 30+10 yrs) 67 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Ret.Nuclear (age 40+20 yrs) 68 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Ret. Biomass Cofiring 69 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

MECS CT 0411 000000 00 RET1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS CT 0412 000000 00 RET1 0. 0. N/A 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
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MECS  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0213   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0412   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0423   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0612   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0614   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0622   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0623   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  CT   0624   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOVACT   0322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1814   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1922   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1923   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   1924   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2312   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCT   2314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Capital US$/kW/a | FOM US$/kW/a | Fixed Costs Total MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ERCTTXCT 2322 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2323 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2414 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2512 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2514 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 2722 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3514 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3522 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCT 3524 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0113 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0114 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0122 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0123 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0124 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0212 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0213 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0214 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0222 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CT 0223 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEVACT 0312 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEVACT 0314 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACEVACT 0323 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACW CT 0213 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACW  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  CT   0224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0211   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0212   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0222   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  CT   0224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACSVACT   0322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1223   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1224   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1312   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1323   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWICT   1324   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0411   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0412   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0413   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0414   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0422   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CT   0424   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0512   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0513   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0514   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOCT   0522   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.882
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total Variable Costs MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total Fixed Costs MMUS$ | Total Costs MMUS$ | Total mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MANOMOCT 0523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANOMOCT 0524 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0414 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0712 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0713 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0714 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0722 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 0724 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1111 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1112 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1113 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1114 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1122 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1123 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP CT 1124 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCT 0513 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPMOCT 0523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1412 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1413 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1414 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1422 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1423 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNECT 1424 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPWICT 1312 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MAPPWICT   1313   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1314   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1322   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPWICT   1323   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0113   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NYC   CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0123   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
LILC  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0112   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0113   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0114   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0122   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0123   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0124   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0912   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0914   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   0923   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CT   2814   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3212   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3213   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENGCTCT   3214   000000 00     RET1           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.883
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|
| NENGCTCT 3222 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCT 3223 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCTCT 3224 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHCT 2914 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGNHCT 3014 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1512 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1513 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1514 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1522 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1523 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFLCT 1524 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0612 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0613 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0614 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0622 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0623 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA CT 0624 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0611 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0613 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0614 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0622 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0623 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCCT 0624 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT 0312 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VACAVACT | 0313 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0314 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0322 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVACT | 0324 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0612 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA CT | 0623 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1612 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| TVA MSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0611 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0613 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0623 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU CT | 0624 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1613 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCT | 1624 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1012 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1014 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1022 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG CT | 1023 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCT | 1614 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCT | 1622 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCT | 0513 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCT | 0522 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT | 1711 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN CT | 1712 | 000000 | 00 | RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.884
Total Annual Costs
Year: 2020

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| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SPPSMSCT | 1614 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2214 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2322 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2512 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2513 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2514 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2524 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 2722 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 3513 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCT | 3514 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0812 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0813 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0814 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0821 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0823 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CT | 0824 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0714 | 000000 | 00 | RET1 | | 30. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0722 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0724 | 000000 | 00 | RET1 | | 28. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0812 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0814 | 000000 | 00 | RET1 | | 6. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0813 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0814 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0822 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0823 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CT | 0824 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNMTXCT | 3523 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT | 0713 | 000000 | 00 | RET1 | | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CT | 0714 | 000000 | 00 | RET1 | | 10. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.885
Total Annual Costs
Year: 2020

| | | |

ERCTTXCGCT 2711 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0111 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0122 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCT 0222 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCT 0212 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCT 0222 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCT 0412 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCT 1112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCT 0122 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCT 0111 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCT 0112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCT 0912 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCT 0922 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCT 3112 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHCGCT 3012 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCT 1512 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCT 1522 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCT 0612 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCT 0311 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCT 0312 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA CGCT 0622 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCT 0612 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSCGCT 1622 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG CGCT 1012 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG CGCT 1022 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXCGCT 2712 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXCGCT 2722 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN CGCT 1712 000000 00 RET1 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Variable Costs: Fuel mill/kWh | Variable Costs: VOM mill/kWh | Variable Costs: Total MMUS$ | Variable Costs: Total mill/kWh | Fixed Costs: Capital US$/kW/a | Fixed Costs: FOM US$/kW/a | Fixed Costs: Total MMUS$ | Total Costs: MMUS$ | Total Costs: mill/kWh |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SPPS CGCT 1012 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCT 3612 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS CGCT 3622 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCGCT 3512 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCGCT 3522 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CGCT 0811 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CGCT 0812 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CGCT 0821 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI CGCT 0822 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM CGCT 0822 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CGCT 0812 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CGCT 0821 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CGCT 0822 000000 00 RET1 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CT Early Retirement 70 | 290. | 0. | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CC 0413 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CC 0422 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CC 0222 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CC 0224 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CC 0422 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCC 1922 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCC 1923 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCC 1924 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCC 2313 000000 00 RET2 | 0. | 0. | N/A | 0.00 | | | | | | | | |

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 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2322   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2513   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2514   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2523   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2524   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   2722   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   3522   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
ERCTTXCC   3523   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACE  CC   0224   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACW  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MACS  CC   0222   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
WUMSWICC   1322   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  CC   0413   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANO  CC   0422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MANOMOCC   0522   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   0422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1113   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPP  CC   1124   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
MAPPNECC   1422   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
UPNY  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
DSNY  CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
DSNY  CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NYC   CC   0122   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
NYC   CC   0123   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
LILC  CC   0113   000000 00      RET2            0.        0.       N/A      0.00
 0.00      0.00      0.00      0.00      0.00      0.00      0.00      0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.887
Total Annual Costs
Year: 2020

| Unit Name | | |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SOU | CC | 0622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU FLCC | | 1522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MSCC | | 1622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | CC | 1022 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | CC | 1023 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMSCC | | 1622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMOCC | | 0522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTXCC | | 2322 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOCC | | 0522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 1022 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3613 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3622 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3623 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | CC | 3624 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSMSCC | | 1613 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 2322 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 2722 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTXCC | | 3522 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0812 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0813 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0823 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | CC | 0824 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0722 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0723 | 000000 | 00 | RET2 | 170. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| PNW | CC | 0823 | 000000 | 00 | RET2 | 493. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0812 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0813 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0822 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | CC | 0823 | 000000 | 00 | RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.888
Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|
| AZNM CC 0824 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNMTXCC 3523 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CC 0822 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA CC 0823 000000 00 RET2 | 107. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NWPE CC 0722 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CGCC 0413 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CGCC 0421 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CGCC 0422 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS CGCC 0423 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO CGCC 0422 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1911 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1912 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1913 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1921 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1922 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 1923 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 2313 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 2322 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 2323 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 2711 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 2722 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 3513 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXCGCC 3523 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE CGCC 0111 000000 00 RET2 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MACE CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0121 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0221 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCC 0222 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCC 0213 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCC 0223 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS CGCC 0223 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0412 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0413 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO CGCC 0422 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNY CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NYC CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
LILC CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCC 0123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3112 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3113 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3122 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTCGCC 3123 000000 00 RET2 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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CALI  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0813   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGCC 0823   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0722   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0723   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0813   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  CGCC 0823   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0812   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0813   000000 00     RET2          60.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0822   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  CGCC 0823   000000 00     RET2         383.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NWPE  CGCC 0811   000000 00     RET2           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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CC Early Retirement           71            1213.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  STGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0412   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  STGAU0421   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0211   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0221   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0421   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  STGAU0611   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2011   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2021   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTGAU2211   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2020

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| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NENG | STGAU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0911 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STGAU0921 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STGAU3221 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STGAU1511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STGAU1521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA | STGAU0621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STGAU0611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU | STGAU0621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STGAU1621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STGAU1011 | 000000 | 00 | RET3 | 86. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STGAU1021 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STGAU1611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STGAU1711 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPN | STGAU1721 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STGAU0511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STGAU0521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU1011 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU1021 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU3611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STGAU3621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSMS | STGAU1611 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2211 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU2521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPSTX | STGAU3511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | STGAU0811 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| CALI | STGAU0821 | 000000 | 00 | RET3 | 897. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | STGAU0811 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| AZNM | STGAU0821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| RMPA | STGAU0811 | 000000 | 00 | RET3 | 75. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Total Annual Costs

Year: 2020

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Variable Costs | |
| | | | | | | | | | | Fixed Costs | | | | | | Total Costs | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | Capacity | Gener. | C.F. | Fuel | | | | | |
| VOM | | | | | | | | Total | | Capital | | FOM | | | Total | | Total | | | | | | |
| Unit | Name | | | | | | | | | | | | | | [MW] | [GWh] | [%] | mill/kWh | | | | | |
| l/kWh | | MMUS$ | | mill/kWh | | US$/kW/a | | US$/kW/a | | US$/kW/a | | | | | MMUS$ | MMUS$ | mill/kWh | | | | | | |
| RMPA | STGAU0821 | 000000 | 00 | | RET3 | | | | | | | | | | 56. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NWPE | STGAU0822 | 000000 | 00 | | RET3 | | | | | | | | | | 75. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | STHSU0411 | 000000 | 00 | | RET3 | | | | | | | | | | 18. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | STHSU0421 | 000000 | 00 | | RET3 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MECS | STHSU0422 | 000000 | 00 | | RET3 | | | | | | | | | | 1386. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTX | STHSU1821 | 000000 | 00 | | RET3 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTX | STHSU2021 | 000000 | 00 | | RET3 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTX | STHSU2221 | 000000 | 00 | | RET3 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTX | STHSU2321 | 000000 | 00 | | RET3 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTX | STHSU2421 | 000000 | 00 | | RET3 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| ERCTTX | STHSU2521 | 000000 | 00 | | RET3 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | STHSU0112 | 000000 | 00 | | RET3 | | | | | | | | | | 17. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | STHSU0121 | 000000 | 00 | | RET3 | | | | | | | | | | 86. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | STHSU0211 | 000000 | 00 | | RET3 | | | | | | | | | | 34. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | STHSU0221 | 000000 | 00 | | RET3 | | | | | | | | | | 435. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACE | STHSU0222 | 000000 | 00 | | RET3 | | | | | | | | | | 102. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACW | STHSU0221 | 000000 | 00 | | RET3 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| MACS | STHSU0222 | 000000 | 00 | | RET3 | | | | | | | | | | 0. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| DSNY | STHSU0121 | 000000 | 00 | | RET3 | | | | | | | | | | 385. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| LILC | STHSU0121 | 000000 | 00 | | RET3 | | | | | | | | | | 891. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NENG | STHSU0122 | 000000 | 00 | | RET3 | | | | | | | | | | 26. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NENG | STHSU0921 | 000000 | 00 | | RET3 | | | | | | | | | | 116. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NENG | STHSU0922 | 000000 | 00 | | RET3 | | | | | | | | | | 107. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |
| NENG | STHSU2821 | 000000 | 00 | | RET3 | | | | | | | | | | 875. | 0. | N/A | 0.00 | | | | | |
| 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | 0.00 | | | | | 0.00 | 0.00 | 0.00 | | | | | | |

NENG STHSU2822 000000 00 RET3 569. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3221 000000 00 RET3 567. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSU3222 000000 00 RET3 400. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHSTHSU2922 000000 00 RET3 406. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1511 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1521 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLSTHSU1522 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0621 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU STHSU0622 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMSSTHSU1621 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU2721 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGTXSTHSU3421 000000 00 RET3 1410. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1711 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1712 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1721 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN STHSU1722 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0821 000000 00 RET3 467. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI STHSU0822 000000 00 RET3 105. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0812 000000 00 RET3 23. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA STHSU0822 000000 00 RET3 68. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE STHSN0121 000000 00 RET3 155. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTSTHSN3221 000000 00 RET3 566. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0222 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0411 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO STLSU0421 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1821 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU1822 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2011 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2012 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2021 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXSTLSU2022 000000 00 RET3 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MAPP | STLSU1112 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1412 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1421 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNE | STLSU1422 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| UPNY | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| DSNY | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NYC | STLSU0122 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LILC | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU0121 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU0922 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG | STLSU2821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STLSU3221 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENGCT | STLSU3222 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1511 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1512 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| FRCCFL | STLSU1522 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | STLSU0321 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVA | STLSU0322 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STLSU1621 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU MS | STLSU1622 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STLSU1021 | 000000 | 00 | RET3 | 3240. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTG | STLSU1022 | 000000 | 00 | RET3 | 3933. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STLSU1621 | 000000 | 00 | RET3 | 1552. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGMS | STLSU1622 | 000000 | 00 | RET3 | 356. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ENTGTX | STLSU1821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STLSU0512 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMO | STLSU0521 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STLSU0821 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPS | STLSU0822 | 000000 | 00 | RET3 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Proposed Hg Trading Rule + IAQR Region: System Page: 3.893
Total Annual Costs
Year: 2020

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CALI  STLSC0821   000000 00     RET3        4724.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0812   000000 00     RET3          13.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0821   000000 00     RET3        1433.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STLSN0822   000000 00     RET3         814.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXCGGAU1811   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  CGGAU0221   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  CGGAU0411   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCCFLCGGAU1511   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   CGGAU0611   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  CGGAU1011   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  CGHSC2821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  CGLSN0821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSC1821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSC1921   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STHSC0821   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STHSC0822   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO2521   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTHSO3521   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2021   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCTTXSTLSO2022   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STLSO0922   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STGAO0111   000000 00     RET3           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  STGAC0821   000000 00     RET3          86.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  STHSD2821   000000 00     RET3         378.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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O/G Early Retirement          72          29276.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MECS  TCOLU0411392050710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431152020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TCOLU0431392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TCOLU0211412050710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

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MANO TCOLU0442192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTCOLU0511282050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU0711312050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU0731311040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111261040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111271040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111261040310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111252020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1111262050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131261040110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131272020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TCOLU1131262020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311161010710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311162020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITCOLU1311162040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0111022050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TCOLU0131022020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TCOLU0911012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTCOLU1531132020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631041050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TCOLU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTCOLU0631102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATCOLU0331092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTG TCOLU1041292050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731281020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TCOLU1731282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

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TVA   TSWBS0642202030303 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWLS0732312030103 02     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSWSS1132261030103 01     RET4          93.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411181020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0411182020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0412181020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0611191020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0631191040110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632051020110 01     RET4         146.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632052020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0632192020210 01     RET4          64.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TOLBU0641052020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOMDTOLBU0231082020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020110 01     RET4         196.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0432142020710 01     RET4          62.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTOLBU0441142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0231032020110 01     RET4         126.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TOLBU0232032050110 01     RET4          48.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1311161020710 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITOLBU1312162020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TOLBU0432192010210 01     RET4         108.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANOMOTOLBU0532281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TOLBU1141252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOTOLBU0512282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPPMOTOLBU0532281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBU0632101020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACANCTOLBU0632102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACAVATOLBU0332092020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TOLBU1732282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Proposed Hg Trading Rule + IAQR Region: System Page: 3.896
Total Annual Costs
Year: 2020

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MAPP TSABU1141282010210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSABU1142282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0141012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
DSNYNYTSABU0142012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGCTTSABU3241012020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSABU0641202020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSABU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641231020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABU0641232020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSABU1641242020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841341020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABU0841342020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0832332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABU0841352020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSABC2941011010101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSABC0641101020201 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU ALTSABC0641232020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEDETSABN0241032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACWPATSABS0241032020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841341020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSABS0841342020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSABS0841352020104 01 RET4 200. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSASU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941291020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU1941292020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSASU2341292020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

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ECAOOHTSBBU0431042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBU0441042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSBBU0441181010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112271020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1112272040210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1131262020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSBBU1132271040110 01 RET4 26. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1432282020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1441282010310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNETSBBU1442282010310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSBBU0641212020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0632112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSBBU0641242020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641241020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU MSTSBBU1641242020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841361020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSBBU0841362020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSBBU0812341020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSBBU0841332020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241041020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSBBN0241042020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0231032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSBBN0241032020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACENJTSBBN0141031010102 01 RET4 129. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSBBN0641102020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341091020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATSBBN0341092020202 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2241302020110 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2241302020410 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBLU2242302020410 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPSDTSBLU0742261010110 02 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSBSU0441392020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ERCTTXTSBSU2341292020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0432172010110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TSBSU0441172020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1432282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1432282020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1441282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1441282020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNETSBSU1442282020510 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSBSU0542282020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0431181020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0432181020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINTSCBU0441182020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSCBU0441041020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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MACE  TSCBU0131032020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBU0231032020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0241032020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACW  TSCBU0242032020110 01     RET4         438.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1131272010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1131252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSCBU1132252020210 01     RET4          84.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0131022020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  TSCBU0141022020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0631102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  TSCBU0641102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSCBU0641212020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   TSCBU0641232020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1731282010310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732281010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  TSCBU1732282020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0832342020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
RMPA  TSCBU0841342020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACEDETSCBN0241032020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSO0441182010102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1242162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341161010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1341162020510 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSCSU1342162020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441182010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0441202020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442182010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSCSU0442202020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2020

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ECAOOHTSDBN0441042020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2831012020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSDBN2841012020102 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1331392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1332392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1341392010210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMSWITSDSU1342392010210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSDSU1132252020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  TSEBU0441392020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0441142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOOHTSEBU0442142020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0232032020110 01     RET4          83.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACWPATSEBU0241032020110 01     RET4         128.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBU0241072020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBU0442181010110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  TSEBU1141252020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  TSEBU2841012020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBU0641102020310 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0632232020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0641232020210 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU ALTSEBU0642232020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSEBC0641042020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  TSEBC0241072020201 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  TSEBC0441181010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACASCTSEBC0641102020401 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSEBC0641221010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTGMOTSEBC0541251010101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs

Year: 2020

| Unit Name | | |

ECAOWVTSFBU0641041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBU0641042020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSFBU0542251010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBU0131022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG TSFBU2832012020110 01 RET4 69. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0641112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBU0642112020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSFBU1742282020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSFBC0641112020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSFSU0441202020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0431392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0432391050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECSMITSGBU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441141010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSGBU0441142020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACS TSGBU0241082020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1231392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSGBU1232392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0431192020110 01 RET4 153. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOILTSGBU0432192020110 01 RET4 74. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0511271040310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0511272020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANOMOTSGBU0531272040310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132271010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1132272020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSGBU1141272020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSGBU0141022020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641101020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSGBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

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MANOILTSHBU0441192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0631102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSHBU0641102020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBU0632222020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBC0241411020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSHBC0241412020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU TSHBC0641112020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSHSU0432392020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0432392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0441392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSIBU0442392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSISU0441171010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1132262020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISU1142262020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPWITSISU1341392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISU0541271010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1132262020703 01 RET4 110. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP TSISS1141262020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ENTGMOTSISS0541272020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441051020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSJBU0441202020410 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0431392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMS TSJBU0432392020310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0432252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSJBU0441252020210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSJBU0541281010110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSKBU0412391020710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Proposed Hg Trading Rule + IAQR Region: System Page: 3.902
Total Annual Costs
Year: 2020

| Unit Name | | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total mill/kWh | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs MMUS$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MECS | TSKBU0412391050710 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSKBU0441042020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINT | SKBU0432182020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOINT | SKBU0432182020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMS | TSKBU0411391020710 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSKBU0441181010110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO | TSKBU0441182020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSKBU0632102020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANC | TSKBU0641102020210 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSKSU1141261010110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMIT | SLBU0432152020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMIT | SLBU0441152020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0231052020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0232052020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0241052020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0411141020710 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0411141050710 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0412141020710 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0432141020210 01 RET4 | 33. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO | TSLBU0632182020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACENJ | TSLBU0112032020710 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| WUMSWIT | SLBU1341392020110 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPP | TSLBU1112261020710 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MAPPNET | SLBU1412281020310 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

SPPNMOTSLBU0531281020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENGNHTSLBN2932012020102 01 RET4 48. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSLSU0641222020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSLSU0712261020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSUBS0541272020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841361020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSUBS0841362020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0841332020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSUBS0842332020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641201020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSVBS0641202020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0431182020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0432181020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441181010103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOINTSVBS0441182020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBU0641041020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSXBU0441192020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXBU0841402020110 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MECS TSXBS0432392020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0241042020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0242412020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0441142020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641201020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSXBS0641202020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs
Year: 2020

| | | |

ERCTTXTSXLS2342302030303 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0732312020304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0741311020103 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742311010103 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312010304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPPNDTSXLS0742312020304 02 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSLATSXLS1041302020103 02 RET4 650. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPSTXTSXLS2341302020103 02 RET4 650. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS1941292020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS2341292020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ERCTTXTSXSS3541292020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS TSXSS3642282020104 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841351020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0841352020303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842351020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020203 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
AZNM TSXSS0842352020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TSXSS0832402020104 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0741322020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE TSXSS0742322020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBU0432191010210 01 RET4 34. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0432192020204 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSYBS0441192020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSYBS0441042020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSYBS0241412020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TSYBS0441191010103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741281010703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSYBS1741282020703 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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MACE CGCOU0141012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE CGCOU0211412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0211412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0231412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0232412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOU0241412050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1211162050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWICGCOU1311162050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050210 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MAPP CGCOU1111262050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOU0131022050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NENG CGCOU0931012050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLCGCOU1541132050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA CGCOU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0611102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCCGCOU0631102050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0311092050310 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0331092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVACGCOU0341092050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SOU CGCOU0611112050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPS CGCOU3641282050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0811372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0831372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
CALI CGCOU0832372050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
NWPE CGCOU0731322050710 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO CGCOS0631041050303 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0231412050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW CGCOS0232412050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY CGCOS0131022050304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

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VACANCTSBBC0641101020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTSBBC0641102020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBC0341092020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAVATSBBA0341092020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACE TSABA0141011020206 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSABA1541132020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACAWVTSABA0641052020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TSZBA0641051020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
FRCCFLTSZBA1541122020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACA TSZBA0641052020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAO TCOLA0641202020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TCOLA0241052050705 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MANO TCOLA0411182020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA MSTCOLA1641242020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTCOLA0541252020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
RMPA TCOLA0831402020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0332092020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACEVATOLBO0341092020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
VACANCTOLBO0632102020202 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSBBS0441041020304 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSBSS0542282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
PNW WATSBSS0741372020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOOHTSCBC0441041020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020101 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
TVA TSCBC0641212020201 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
WUMSWITSDSO1332392020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPNMOTSDSS0541282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
SPPN TSESS1741282020103 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
ECAOWVTSFBN0641042020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
UPNY TSFBN0131022020102 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
MACW TSFBA0241412020105 01 RET4 0. 0. N/A 0.00
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

Total Annual Costs

Year: 2020

| Unit Name | Capacity [MW] | Gener. [GWh] | C.F. [%] | Fuel mill/kWh | Variable Costs VOM mill/kWh | Total MMUS$ | Fixed Costs Capital US$/kW/a | FOM US$/kW/a | Total MMUS$ | Total Costs Total MMUS$ | mill/kWh |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VACANCTSGBC0641102020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSGBN0441142020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACSMDTSHBO0241081010302 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACA TSHBO0632102020202 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441041020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020102 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSHBN0441042020302 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TSJBO0412392020202 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACANCTSKBO0632102020202 01 RET4 | 122. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SOU TSKBC0641232020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBC0441181020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSLBC0441182020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBE0232041020207 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSXBE0242041020207 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TSZBD0241032020707 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MACE TCOLC0141012050301 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECS TCOLE0411391030308 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MANO TCOLD0431182050307 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| VACAVATCOLD0331092050308 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SPPNMOTSCSA0541282020306 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| NENG TSDBD2831012020107 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| MECSMITSFSC0441392020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAO TSGSC0441201020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| ECAOOHTSIBC0441041020101 01 RET4 | 0. | 0. | N/A | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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ECAO  TSVBA0641201010105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441181020105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAOINTSVBA0441182020105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   TSLSC0641222020101 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  TSDBA0141011020206 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA KYTSEBA0641201010105 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ECAO  TSXBC0641202020201 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPNMOTSUBU0541272020110 01     RET4           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Coal Early Retirement         73            5516.       0.      0.0     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SPPN  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
NENG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
AZNM  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACS  NUKE 00    9000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2020

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ECAO  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCT  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
FRCC  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
SOU   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
TVA   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ERCT  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MECS  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MACE  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
DSNY  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
UPNY  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
CALI  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
PNW   NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
VACA  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
WUMS  NUKE 00    8000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Total Annual Costs
Year: 2020

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WUMS  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MAPP  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
ENTG  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
MANO  NUKE 00    7000000 00     RET5           0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00
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Nuke Early Retirement         74                0.       0.      N/A     0.00
 0.00     0.00     0.00     0.00     0.00     0.00     0.00     0.00

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Total                                     1084890. 4850822.     51.0    12.13
 1.94 68240.15    14.07     9.56    32.02 45110.39 ********    23.37
(**) Industrial Boiler unitary costs per MBtu, not used in the total averages of
 unitary costs
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