International Climate Challenge
Reducing GHG Emissions under the Clean Air Act

EPA Mobile Source Technical Review Subcommittee

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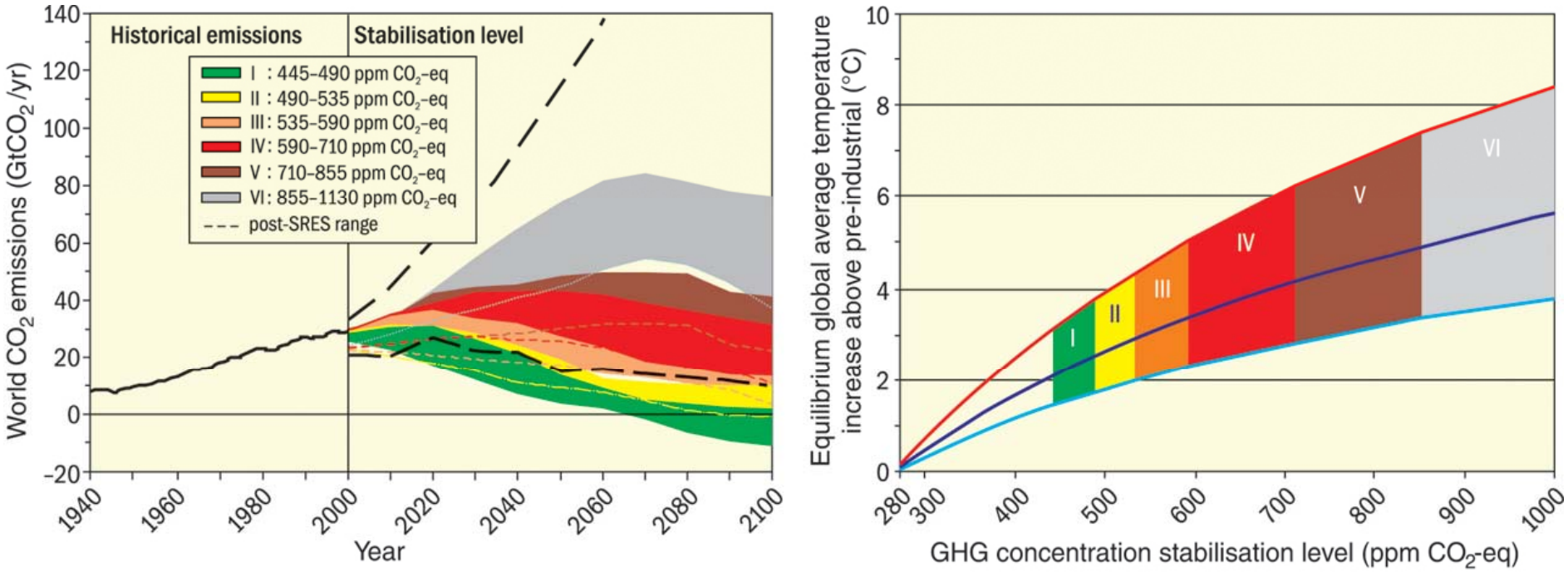
THE INTERNATIONAL COUNCIL ON CLEAN TRANSPORTATION

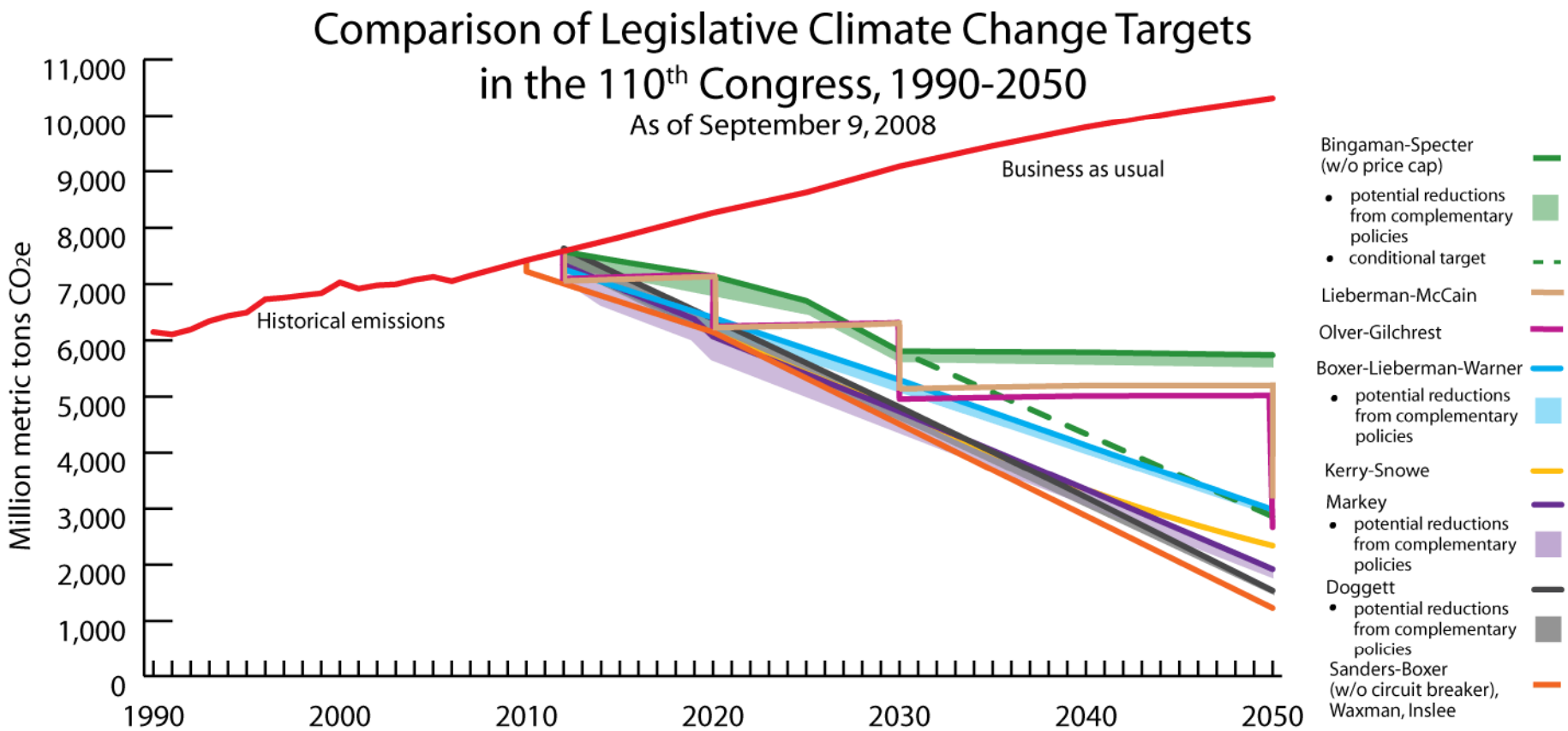
450 ppm CO_2e target necessary for a 50-50 chance of 2^0C rise in global average temperature



Source: IPCC Fourth Assessment Report, 2007

U.S. Target

3 to 5 Gt of GHG emission reductions from BAU by 2030



Source: World Resources Institute, 2008

Deep long-term emission reductions (50% by 2030; 80% by 2050) needed from all sectors of the economy including transportation

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Appropriate Framework for Climate Policy

- Steady Progress
  - Primary objective: Energy Security or Climate Change
- Technology Innovation
  - Lead-times and phase-in periods
- All GHG Emissions
  - Life-cycle approach -- fuels and vehicles as a system
- Historical success
  - Emission standards v. Fuel Economy
- Global leadership