

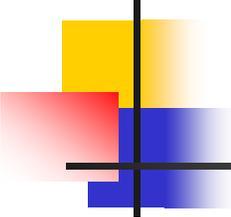


Residential Wood Smoke Reduction Initiative

“Real air emission reductions for real people”

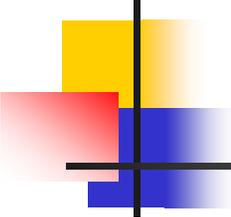
Residential Wood Smoke Workshop
March 9, 2006

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What I will cover:

- Major Components
 - Focus: Great American Woodstove Changeout
- Progress to date



What Is EPA's Voluntary Residential Wood Smoke Reduction Initiative?

Major components

- Great American Woodstove Changeout Campaign (Main focus)
- "Burn Clean" National Education and Outreach Campaign
- Supporting Efforts to Address Emissions from Fireplaces and Outdoor Wood Boilers

What is a Woodstove Changeout Campaign?

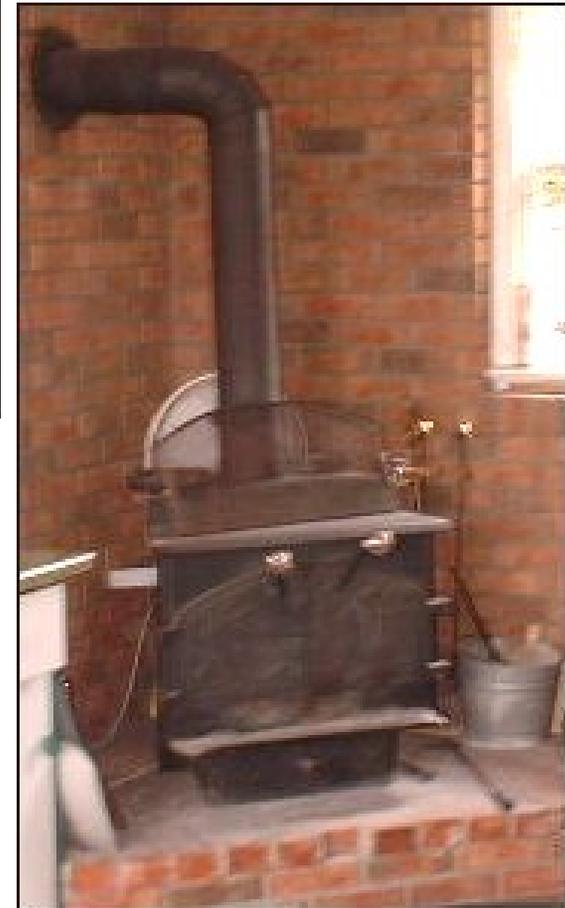
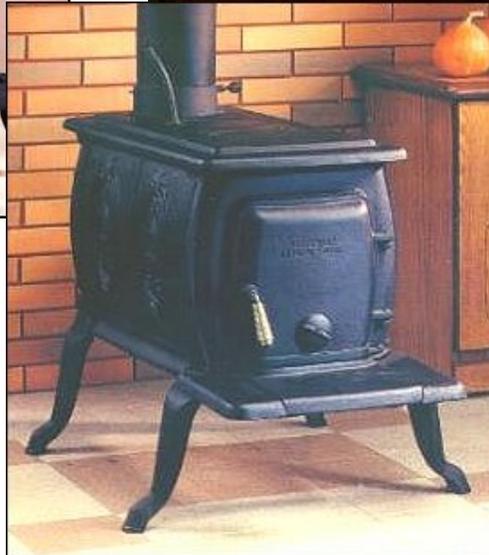
- A voluntary, incentive-based (cash rebates) effort to encourage owners of old, inefficient woodstoves to replace or “changeout” their stove with a cleaner burning hearth appliance,

like:

- Gas stoves
- Wood pellet stoves
- EPA-Certified wood stoves



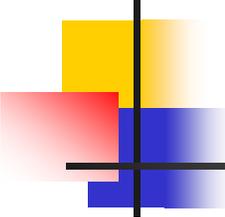
Old “Conventional” Woodstove (built before 1990)



Advanced Woodstoves (EPA Certified – built after '90)



Slide from Wood Heat Organization Inc



4 Elements of the National Woodstove Changeout Campaign:

- **Raise awareness/focusing national attention**
 - Implementing Pilots (Libby, MT & SW PA)
- **Develop partnerships/fostering collaboration**
 - ALA, DOE, HUD, Chimney Sweeps, Home Inspectors
- **Target specific areas/being opportunistic**
 - PM2.5 non-attainment, funding availability
- **Provide tools to help S/L/T begin programs**
 - Outreach materials, funding options, health/cost benefits info

Progress to date – Woodstove changeout pilots

- Libby, MT kick-off (June, 05)

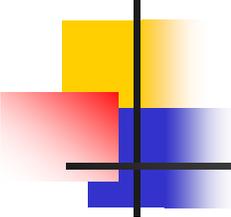


- Goal: Replace 1200 stoves by 2007
- \$1 Million donated by industry, \$100K from EPA, \$50K state
- \$1 Million Congressional earmark
- Phase I, low-income ~150 stoves installed
- Phase II, 470 applications received to date

- SW Pa kick-off (Sept., 05)



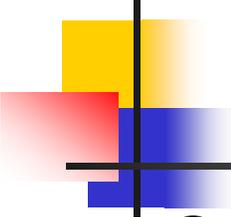
- \$100K EPA grant to help fund changeouts for low income
- \$80K from Allegheny County
- \$470M in health benefits if all 30,000 old stoves were changed out



Progress to date – Supplemental Environmental Projects

Several enforcement agreements negotiated to pay for clean stoves: Total ~ \$700K

- 2 in Washington State: Bellingham ~\$200K
- 2 in Ohio: Dayton ~\$75K, Marietta ~245K
- 1 in VA: Christiansburg ~\$45K
- 1 in NM: Questa ~\$100K

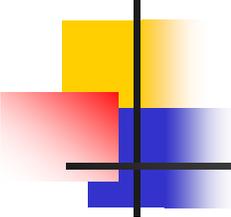


Woodstove Changeouts Are Happening!

Ongoing campaign or completed in 2005

- Libby, MT
- SW PA
- Washoe County, NV
- Butte County, CA
- Christiansburg, VA*
- Darrington, WA
- Whatcom/Island Co., WA*
- Swinomish Tribe, WA
- Questa, NM*
- Yakima, WA
- Delta County, CO*

*Includes funding/stoves from settlement agreement

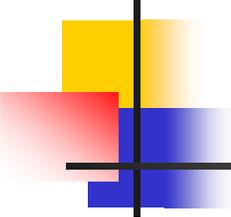


Woodstove Changeouts Are Happening!

Planning or expressed interest in 2006-07

- Greater Dayton, Ohio*
- Washington Co., OH*
- Sacramento, CA
- San Joaquin, CA
- Oakridge, OR
- Christiansburg, VA*
- Whatcom/Island Co., WA*
- Swinomish Tribe, WA
- Yakima, WA
- Libby, MT
- Greenville, SC
- Hagerstown, MD
- Central Washington
- Maine
- Rutland, VT
- New Jersey
- Minnesota
- Catawba Co., NC
- Oneida Nation, WI

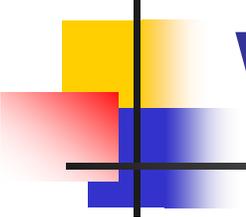
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Growing the Initiative: What is EPA doing?

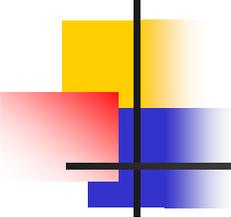
Providing Tools for States/Local/Tribes:

- Wood Smoke Workshop/Training
- EPA Clean Burning Woodstove and Fireplace [Website](#)
- Woodstove Changeout “How to Guide” [Website](#)
- Woodstove Changeout Emissions Credit Guidance
- Options for Securing Funds
- Draft Woodstove Changeout SEP Handbook
 - PM 2.5 emission reduction benefits, cost effectiveness



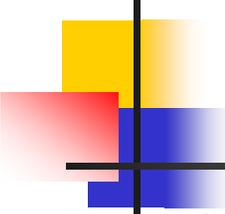
Growing the Initiative: What is EPA doing?

- **EPA Demonstration Grants (FY 06):**
 - Hope to have funds available for demonstrations in 2-3 locations



Growing the Initiative: What is EPA doing?

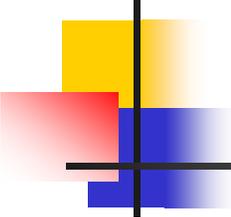
- Enforcement Settlement Agreement Funds:
 - Marketing woodstove changeout as a cost effective tool for addressing PM2.5 and toxics emissions to regulators (6 settlements so far)
 - If we can demonstrate cost effectiveness and easy to do, potential for large \$
 - (e.g., Toyota \$20 million for diesel retrofits)



Growing the Initiative: What is EPA doing?

Develop new incentive ideas with stakeholders aimed at programmatic solutions for removing wood stoves.

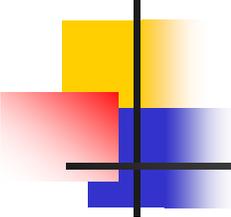
- Home inspectors/realtors (safety)
- Utilities (Duke, Progress energy, Bonneville Power, TVA)
- HUD, Bureau of Indian Affairs and Tribes
- DOE Low-income Weatherization Program perfect fit for receiving settlement agreement and other funds



Residential Wood Smoke Reduction Initiative

Other components include:

- National Education and Outreach Campaign – Partnership with HPBA, American Lung Association is critical
- Voluntary Fireplace Consensus Test Method and National Building Code
- Voluntary Outdoor Wood-fired Hydronic Heaters Consensus Test Method
- At this time we do not plan to revise the woodstove NSPS



Summary/Feedback

- There is a great deal of energy and support inside and outside EPA
- There are many facets and opportunities to the initiative
- We look forward in supporting and working with S/L/Ts in addressing wood smoke
- Questions, comments?

- Wood Stove Home
- Basic Information
- Wood Burning Efficiency and Safety
- Healthier Home, Cleaner Environment
- Health Effects of Wood Smoke
- Wood Stove Changeout Campaign
- Technical Information
- Partners & Useful Links
- Cleaner Burning Fireplaces
- For Air Quality Program Officials
- How-To Guide for Implementing a Wood Stove Changeout Campaign

How-To Guide for Implementing a Wood Stove Changeout Campaign

We have developed this how-to guide for you to use to determine whether it is feasible for your jurisdiction to develop and implement a Wood Stove Changeout Campaign. This material will provide you with the following information:

[What is a Wood Stove changeout Campaign?](#)

[How do I know if my area is a candidate for a Wood Stove Changeout Campaign?](#)

[What is the process for developing and implementing a Wood Stove Changeout Campaign?](#)

- [Identify potential partners.](#)
- [Identify sources of funding.](#)
- [Develop a project plan.](#)
- [Implement Wood Stove changeout Campaign.](#)
- [Measure success.](#)

The [e-library](#) provides additional resources. After reviewing this material, if you have more questions on starting a wood stove



Just 20 old non-EPA-certified wood stoves can emit more than 1 ton of fine particles into your



Clean Burning Wood Stoves and Fireplaces

Contact Us | Print Version Search: GO

EPA Home > Air & Radiation > Clean Burning Wood Stoves and Fireplaces

- Wood Stove Home
- Basic Information
- Wood Burning Efficiency and Safety
- Healthier Home, Cleaner Environment
- Health Effects of Wood Smoke
- Technical Information
- Partners & Useful Links
- Cleaner Burning Fireplaces
- For Air Quality Program Officials

A wood stove or fireplace adds warmth and ambiance to your home. This site offers information to help you choose a cleaner burning hearth appliance (e.g., gas or wood stove) and use it efficiently and safely. Air quality program officials will find information to help them support and develop programs for addressing residential wood smoke.

Basic Information - What you need to know to select a cleaner burning hearth product for your home, including retailers and installers in your area.

Wood Burning Efficiency and Safety - Look here for tips on proper stove installation, good wood burning practices, and how you can ensure safer heating of your home. See our Clean Burn Fact Sheet (PDF, 1 pp, 391 KB)



Basic Information: A more efficient, safer, cleaner model that saves money and time



Wood burning efficiency and safety: Efficient burning and effective heating with less smoke



Healthier home and cleaner environment with an EPA certified wood stove



HPBA 3225
DATE 6/16/05
PAY TO THE ORDER OF Lincoln County Woodstove Changeout \$ 1,000,000
One Million Dollars
DOLLARS
Carter Keuhle

\$500
Donor Name
Address
City, State, Zip
Phone
Email



 **EPA** United States Environmental Protection Agency

September 29, 20 05

PAY TO THE ORDER OF Southwest PA Air Quality Partnership \$ \$100,000.00

One Hundred Thousand & ⁰⁰/₁₀₀ DOLLARS

For: The Great American Woodstove Changeout

Donald S. Welsh
Donald S. Welsh, EPA Regional Administrator

Not Legal Tender - For Promotional Purposes Only