



**Wood Stove Changeout Programs:
20 Years of Clearing the Air
Renewable Heating Symposium
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Old wood stoves don't wear out..

They are the Energizer Bunny of Home appliances.....

They just keep going and going, and going....



20 years of Clearing the Air

- Because old stoves don't wear out..
Replacing them is a very lousy
Value Proposition
- It's much worse than Energy Star
 - Energy Star is designed to influence
the purchase decision....
But **not** to trigger the decision to purchase



20 years of Clearing the Air- Lessons

The Five Fundamentals of Woodstove Changeouts-

1. Fuel Neutral; Woodstove, Pellet unit, or Gas, *anything* is better!
2. No Fuel Bias; let the Consumer decide-with the local dealer
3. Careful installation – NFI
4. Education Benefit - Leverage



20 years of Clearing the Air- Lessons

5. Old Stove Must be Destroyed—
Government Incentives are
critical – The “Tipping Point”

Government Incentives Validate
the Value Proposition—
They are the Excuse!



This is what we Must Avoid



20 years of Clearing the Air- Last 10 Years

- Great Lakes Great Stove Changeout
- 2001 – 7 states
- EPA Clean Air Act Excellence Award



20 years of Clearing the Air

- Since 2002 – over 40 short term or long term changeouts—
 - Oakridge, K Falls, Pendleton
 - Marietta, Ohio SEP
 - Pinehurst, ID
 - Sacramento, S.F. Bay Area, Chico, Truckee, San Joaquin Valley
 - Michigan, Vermont
 - Washington State **\$1.5 Million in 2008**

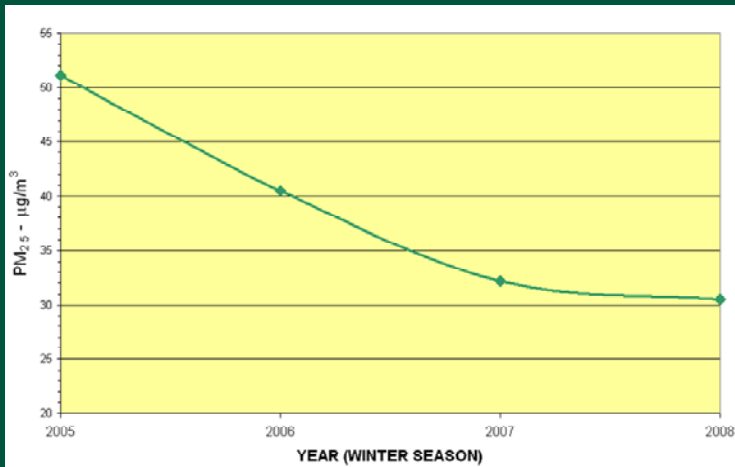


Libby—An “ENTIRE TOWN” Changeout

- 2,000 Households
- 1,200 were still using old wood stoves
- Serious & longstanding woodsmoke problem
- Total of 1,135 Household upgraded over 3 year period
 - EPA wood stoves
 - Pellet stoves
 - Propane stoves
- Ordinance prohibiting use of old stoves



Libby Results: PM2.5 24-Hour Average



U of Montana monitored IAQ Drs. Tony Ward & Curtis Noonan

- Monitored before & after changeouts
- 16 homes
- Ave Pre-changeout = 53.4 µg/m³
- Ave Post-changeout = 15 µg/m³
- Currently completing study with Nez Perce – 16 homes, before & after
- Funded for major 2 year – 60 home study



EPA Deputy Air Admin. Praises Libby Program 1/2008, Wash. D.C.



Libby Residents Celebrate Program's Success



20 years of Clearing the Air- Libby

- What Did it Cost?
 - \$1 Million in Donations
 - Stoves, Pipe, Cash, etc
 - \$1.1 Million from EPA
 - Approx. \$1 Million +, from residents

2 ½ year program – If given more time, it

 - Would have cost less



20 years of Clearing the Air- Started in NW

- Seattle was 1st major Metro Area
- 1991 – 4 months
- 3 Press events
 - Puget Sound Air Control Agency
 - Seattle Chapter ALA
 - Washington DOE
 - WHA & WWEA
- Travis Industries



20 years of Clearing the Air- Started in NW

Original Pilot Project Southern Oregon
Fall 1990 – Grants Pass, K Falls,
Medford



The Next 20 Years of Changeouts?

- Innovative Financing – Pendleton
- Weatherization Funding
- Education – “Burn Wise”
- Tax Credits – Property tax Credits?
- Heat Smart Bill
- A new NSPS – 2-4 years
 - Continue Voluntary Programs
- Much more recognition of Biomass

