

WEST COAST COLLABORATIVE

Public-private partnership to reduce diesel emissions



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Overview of Objectives

- » Improve understanding of the West Coast Collaborative
- » Outline future possibilities and areas of involvement



EPA Administrator Stephen Johnson and Regional Administrator Wayne Nasti present \$211,000 to Sacramento Metropolitan Board Member Roger Dickinson and Air Pollution Control Officer Larry Greene to retrofit construction equipment engines in and around Sacramento on August 22, 2005.



Outline of presentation



EPA Administrator Mike Leavitt announces the West Coast Collaborative and supports the Lane Regional Air Pollution Authorities "Everybody Wins" idle reduction project in Coburn, Oregon on September 30, 2004.

- » Why diesel?
- » What is the National Clean Diesel Campaign?
- » How is the West Coast Collaborative supporting it?
- » Where are the current opportunities to get involved?



Why diesel?

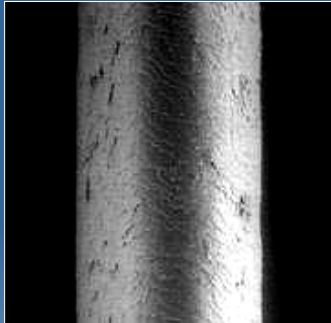
- » Serious health impacts
 - › exacerbates asthma, respiratory and cardiac illness
- » Possible human carcinogen
 - › over 70% of the cancer risk from all air toxics
- » Degrades Air Quality
 - › particulate matter and ozone
- » Contributes to climate change
- » Impacts our most vulnerable populations
 - › Children, the elderly and people with existing health conditions



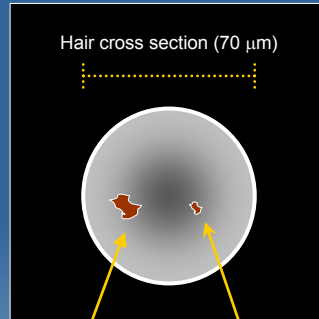


Particulate matter (PM) in diesel exhaust is the driver of risk

- » Mix of particles and liquid droplets
- » Considerably smaller in size than human hair
- » Penetrates deeply into the lungs



Human Hair (70 μm diameter)

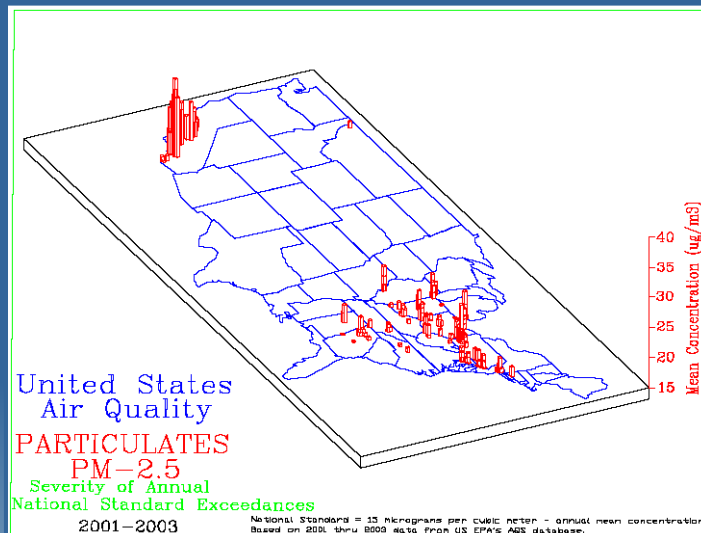


PM₁₀ (10 μm)

PM_{2.5} (2.5 μm)

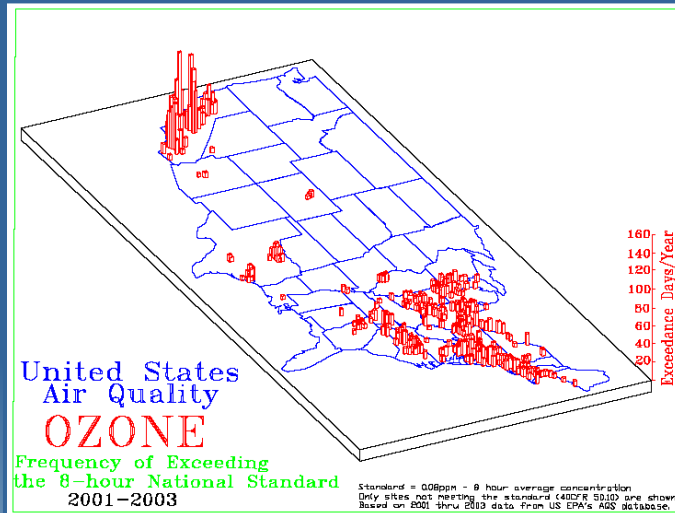


Diesel exhaust contributes to non-attainment for PM_{2.5} ...

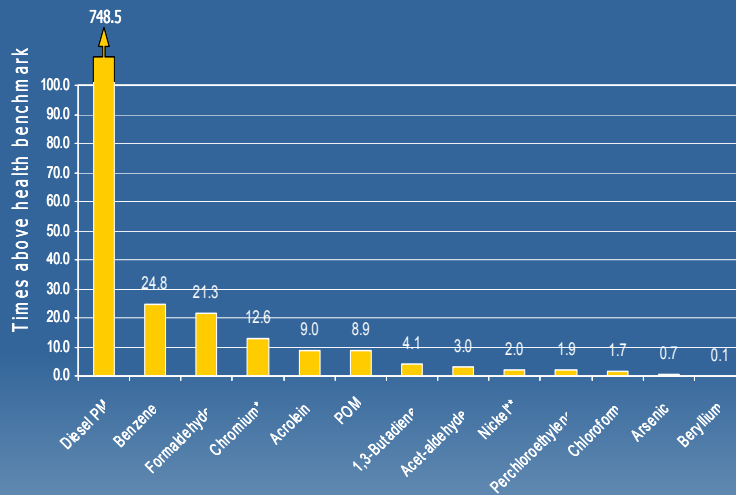




...and ozone through Nitrogen Oxides (NOx) emissions



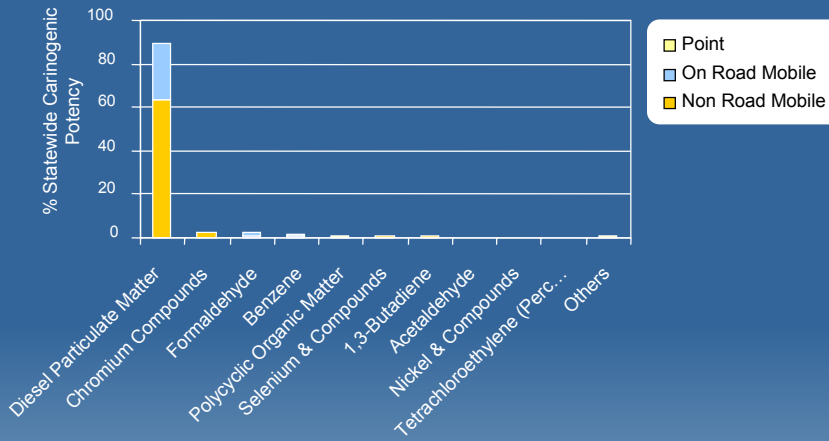
Oregon Ranks Diesel PM as the #1 Hazard for All Air Pollutants Statewide





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...As Does Washington for Cancer Effects



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What is the National Clean Diesel Campaign?

2005
NATIONAL CLEAN DIESEL CAMPAIGN
POLICY LEADERS SUMMIT
WASHINGTON, DC DEC 7/8



- » Regulatory and Voluntary Program
- » Regulates fuel standards and new engine emissions
- » Voluntary program combines national and regional efforts



EPA Regulations

- » Clean Diesel Truck and Bus Rule
 - › Dec 2000
- » Clean Air Nonroad Diesel Rule
 - › May 2004
- » Cleaner diesel fuel requirements:
 - › ULSD for highway diesel engines starting in 2006,
 - › Low sulfur diesel for nonroad diesel engines in 2007,
 - › ULSD for nonroad diesel engines in 2010, and
 - › ULSD for locomotives and marine engines in 2012.
 - › Low sulfur diesel fuel is already available in some areas of the country.



EPA Regulations

- » Engine standard requirement
 - › Highway sector in 2007
 - › Construction and other nonroad in 2011
 - › Locomotive and marine engine standards are being developed
- » Fuel and engine standards for large commercial marine diesel vessels like cruise and container ships are anticipated.





EPA Regulations

- » When fully implemented in 2030, these regulations will annually prevent up to:
 - 12,000 premature deaths,
 - 1,000,000 lost work days,
 - 15,000 heart attacks, and
 - 6,000 children's asthma-related emergency room visits
- » Combined, these stringent regulations will achieve \$150 billion in health benefits
- » But what can be done with the 11 million engines in use today?



National Voluntary Program

- » The voluntary program was created to reduce emissions from the existing fleet:
 - › Clean School Bus USA
 - › SmartWay Transport Partnership
 - › Clean Ports USA
 - › Clean Construction USA
 - › Clean Agriculture USA



National Clean Diesel Campaign Manager Jim Blubaugh and Regional Administrator Wayne Nastri present a \$135,000 grant to the American Lung Association of Hawai'i to clean up construction equipment at Grace Pacific Quarry on November 16, 2005.



West Coast Collaborative

- » The goal of the Collaborative is to reduce diesel emissions by:
 - › Supporting and bringing attention to the many highly successful existing efforts
 - › Creating a forum for information sharing along major transportation corridors in the West
 - › Leveraging significant new resources
 - › Developing and implementing projects



Oregon Governor Ted Kulongoski tries out truck idle reduction technologies in Portland, OR.



Public, private, and non-profit partners

- » USEPA, USDOE, USDOT, USDA, HUD and DOD
- » State and local leadership in Regions 9 and 10
- » Environment Canada and Mexico SEMARNAT
- » Private and non-profit sector partners
- » Over 750 participants



USEPA Administrator Mike Leavitt announces the West Coast Collaborative and supports the Lane Regional Air Pollution Authorities "Everybody Wins" idle reduction project in Coburn Oregon on September 30, 2004.



Where are the opportunities to get involved?



Teri Shore (Bluewater Network), Matt Haber (EPA R9), Jack Broadbent (APCO Bay Area Air Quality Management District), Ron Dunfee (Lubrizol), Ron Duckhorn (Blue and Gold Fleet) and Charlene Haught Johnson (Water Transit Authority) announce the Collaborative and its support for the Bay Area Water Transit Authority ferry diesel emissions reduction project on September 30, 2004 in San Francisco.

- » Public Workshops
- » Funding Forums
- » Sector Workgroups
- » Interim Steering Committee
- » Annual Grants Program
- » Website
- » Newsletter
- » Email Listserve
- » Press Events
- » Educational briefings for key decision makers



Public Workshops and Funding Forums

- » June 2004 Kick-off, San Francisco
- » FFCA 2004 and 2006
- » March 2005 Workshop, Seattle
- » June 2005 Funding Forum, Arizona
- » November 2005 Funding Forum, Hawai'i
- » December Policy Leaders Summit, Washington, DC
- » March Funding Forums, Washington and Oregon
- » More to come...



Region 9 Regional Administrator Wayne Nastri delivers the keynote address at the National Clean Diesel Campaign Policy Leaders Summit on December 5, 2005 in Washington, DC.



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Five Sector Workgroups and Steering Committee



Oregon Governor Ted Kulongoski and Dean Ron Adams of the OSU Engineering School receive a check from Suzanne Rudzinski (EPA OTAQ) and Julie Hagensen (EPA R10) supporting the Oregon I-5 Corridor Idle Reduction Project. Also participating, Stephanie Hallock (Director ODEQ), Mike Burnett (Executive Director of Climate Trust) and Mark Reeve (Chair Oregon EQC).

Marine Vessels and Ports

Trucking

Locomotives and Rail

Construction and Distributed Generation

Agriculture

Interim Steering Committee



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Annual Grants Program

- » 2004: Granted \$1.1 million in EPA funding, leveraged \$10 million
- » 2005: Granted \$1.4 million in EPA funding, leveraged \$5.8
- » Currently implementing 28 projects
- » 2006: \$3 million Request for Proposals, due in March



On September 15, 2005, Region 9 Regional Administrator Wayne Nastri presents a \$100,000 grant to the Port of San Francisco to enable cruise ships like Princess Cruises to use cleaner fuel while docked at the port.



Communications

- » Nationally renowned website (www.westcoastcollaborative.org)
 - › Grants and Conferences
 - › Congressional Updates
 - › Technology links
 - › Outreach materials
- » Bi-Monthly newsletter and listserv
- » Press events!
 - › 2004: hosted 8 simultaneous press events along the West Coast
 - › 2005: average 1 press event/month



Educational Briefings

- » Agency Briefings
 - › local, state and federal level
- » Congressional outreach
 - › Diesel Emissions Reduction Act 2005 (\$1 billion over 5 years)
 - › Congestion Mitigation Air Quality (\$8.6 billion over 6 years)
 - › Questions and inquiries



Laura Yoshii (EPA R9) announces the Collaborative and presents a check to Richard Smith (APCO San Diego APCD), Supervisor Greg Cox (Board Member San Diego APCD), Enrique Villegas (Director of the Baja California State Department of Ecology), and Hugo Zepeda (Baja California SEMARNAT Federal Delegate) for the border diesel emission reductions project on September 30, 2004 in San Diego.



Schedule of upcoming events...

- » February 6 – President's Budget announced
- » Mid-February – Sector Workgroup calls to follow up on FFCA
- » March X – Washington State Funding Forums
- » March X – RFP due
- » Press events this spring



More Can Be Done

- » California estimates it would take over \$2 billion to achieve healthy air
 - › 1.2 million existing engines on the West Coast
- » The Collaborative enhances state and local efforts to improve the health and environment
- » Investments in new technologies lead to economic development opportunities



Barbara Patrick (Chair of the San Joaquin Valley Unified Air Pollution Control District Governing Board and member of the California Air Resources Board), Kerry Drake (EPA R9), and Jennifer Anderson (BNSF) and Mike Iden (UP) announce the Collaborative and its support for the San Joaquin Valley Locomotive Idle Reduction Project on September 30, 2004 in Bakersfield, CA.



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For more information on the West Coast Collaborative...

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» Visit our website

www.westcoastcollaborative.org