

Philadelphia Port Environmental Task Force – Partnering To Reduce Diesel Emissions

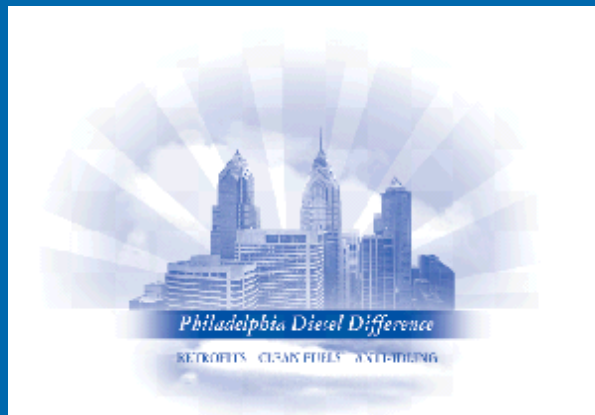


Presentation by Eric Cheung,
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Faster Freight – Cleaner Air (East Coast)
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Clean Air Council



- Ø 501(c)3 nonprofit grassroots group, incorporated 1967
- Ø Protects everyone's right to breathe clean, healthful air
- Ø Over 7,000 members in Pennsylvania and Delaware
- Ø Acts through outreach and education, legislative advocacy, and sometimes litigation
- Ø Programs include renewable energy, sustainable transportation, waste and recycling
- Ø Relies primarily on foundation grants and governmental contracts for funding



Philadelphia Diesel Difference

- Ø Formed in 2003 after successful Philadelphia Air Management Services (AMS) conference
- Ø Supports the voluntary implementation of clean diesel technologies on diesel powered engines
- Ø Works through outreach and education, funding, technical assistance, non-monetary recognition.
- Ø 8 partner fleets reduced emissions > 30%
- Ø Co-administered by the Council and AMS
- Ø Over 40 public/private partners



Port Environmental Task Force (PETF)



- Ø 2004 EPA Region III Report indicates non-road (port and construction) emissions account for two-thirds of all diesel PM in Philadelphia region
- Ø PETF formed as subcommittee of Philadelphia Diesel Difference in May, 2005 to address diesel emissions at the Philadelphia Ports
- Ø Administered by Clean Air Council through EPA CARE grant
- Ø Scope of Task Force goes beyond diesel emissions to encompass multimedia environmental issues
- Ø Goal is to reduce the environmental impact of port activities on neighboring communities in Philadelphia

PETF Stakeholders

- Ø Philadelphia Air Management Services
- Ø Amtrak
- Ø Camden Iron & Metal
- Ø Carreras, Inc.
- Ø Philadelphia Diesel Difference
- Ø Clean Air Council
- Ø Clean Diesel Technologies



- Ø Delaware Department of Natural Resources & Environmental Control
- Ø Duffy Associates
- Ø Emisstar
- Ø Energy Co-op
- Ø U.S. EPA
- Ø Gloucester Terminal
- Ø Greenwich Terminals (Packer)
- Ø Holt Logistics Corp.
- Ø New Jersey Department of Environmental Protection
- Ø Pennsylvania Department of Environmental Protection
- Ø Partnership for the Delaware Estuary
- Ø Greater Philadelphia Clean Cities
- Ø Philadelphia Regional Port Authority
- Ø Philadelphia Water Department
- Ø Port of Bucks County
- Ø Saul Ewing Law Firm
- Ø Sprague Energy
- Ø Starcrest Consulting Group, LLC
- Ø State Senator Vincent Fumo
- Ø United Communities of Southeast Philadelphia
- Ø Urban Engineers, Inc.
- Ø US Coast Guard

PETF Community Outreach

- ∅ Two Mid-Atlantic Clean Ports Workshops
 - | 2006 – Focus on Diesel Emissions
 - | 2007 – Focus on Stormwater Management
- ∅ Two Community Meetings In Southeast Philadelphia
 - | February 2007 - South Philadelphia Environmental Forum
 - | August 2007 - Asthma Health Fair



- ∅ Three Reports: Air, Water, Land
- ∅ List of Recommended Actions

Port Cargo-Handling Equipment Diesel Retrofit Project



Project Details

Ø Funding

- | \$100,000 U.S. EPA National Clean Diesel Campaign Demonstration Assistance
- | \$72,000 Vendor in kind match (Cummins Power Systems)

Ø 83 Diesel Oxidation Catalysts installed

- | 67 Yard Jockeys
- | 16 Top Picks

Ø Two largest port facilities


- | Packer Marine Terminal (containers, steel products, frozen meat, fruit, heavy lift, project, paper)
- | Tioga Marine Terminal (containers, refrigerated fresh fruit, paper, plywood, autos, palletized, project, breakbulk, and steel)



Project Timeline

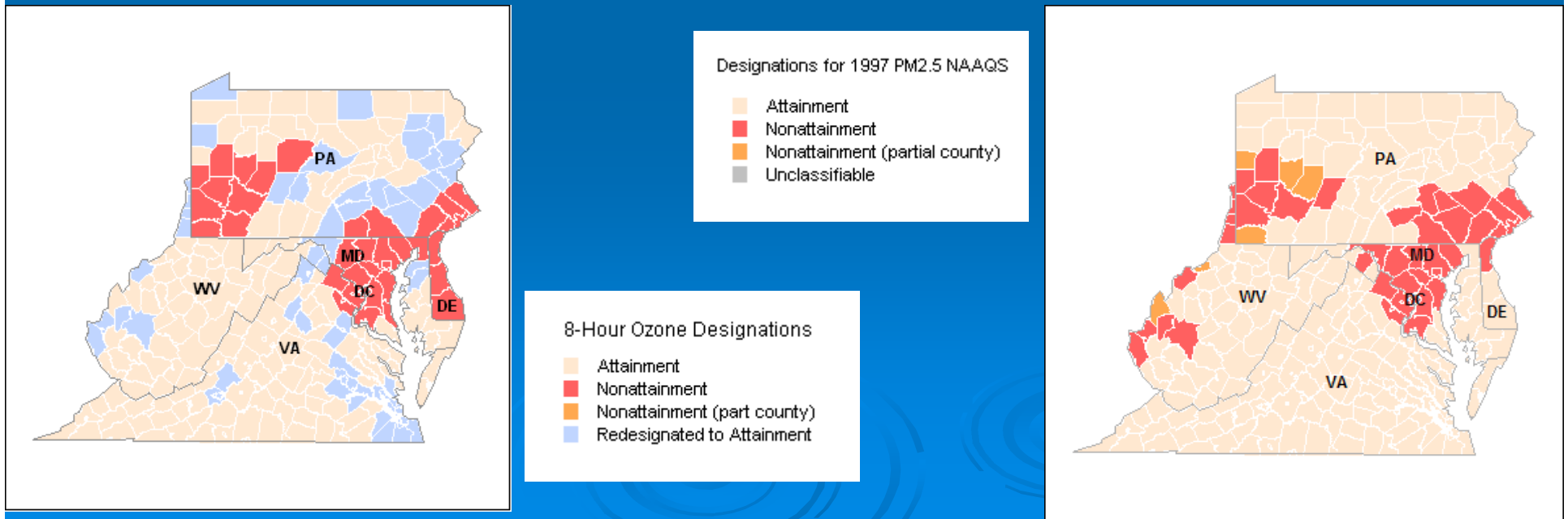
- ∅ October, 2005 – Project begins
- ∅ May, 2006 – 1st Mid-Atlantic Clean Ports Workshop convenes
- ∅ Summer, 2006 – Packer and Tioga commit to project
- ∅ August, 2006 – Cummins Power Systems is chosen as technology vendor
- ∅ Fall, 2006 – Fall, 2007– Retrofits take place
- ∅ December, 2007 – Project ends

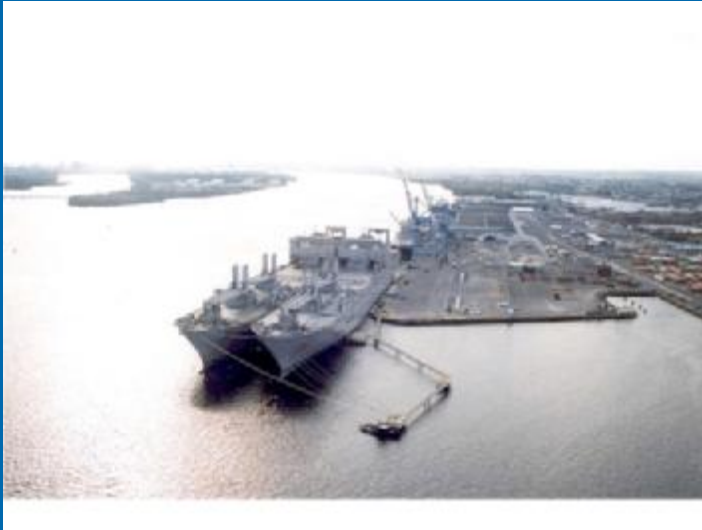
Keys To Success

- Ø Financial assistance from U.S. EPA
 - Ø Buy-in and support from the Philadelphia Regional Port Authority
 - Ø Networking opportunities
 - Ø Competitive drive
 - Ø Persistence
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Estimated Emissions Impact

- ∅ PM - .48 tons/yr reduction (Cost: \$16,000 spent per ton reduced)
- ∅ Hydrocarbons - 1.94 tons/yr (\$3,900)
- ∅ CO - 3.35 tons/yr (\$2,200)





Looking Ahead...

- ∅ National Fish and Wildlife Foundation/PA Coastal Zone Management Funding
- ∅ Awarded EPA CARE Level 2 Funding
- ∅ 3rd Mid-Atlantic Clean Ports Workshop this Fall
- ∅ Expansions planned for the Port

For More Information

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Ø Websites:

www.cleanair.org – Clean Air Council

www.cleanair.org/dieseldifference - Philadelphia
Diesel Difference

www.cleanair.org/greenports - Port
Environmental Task Force