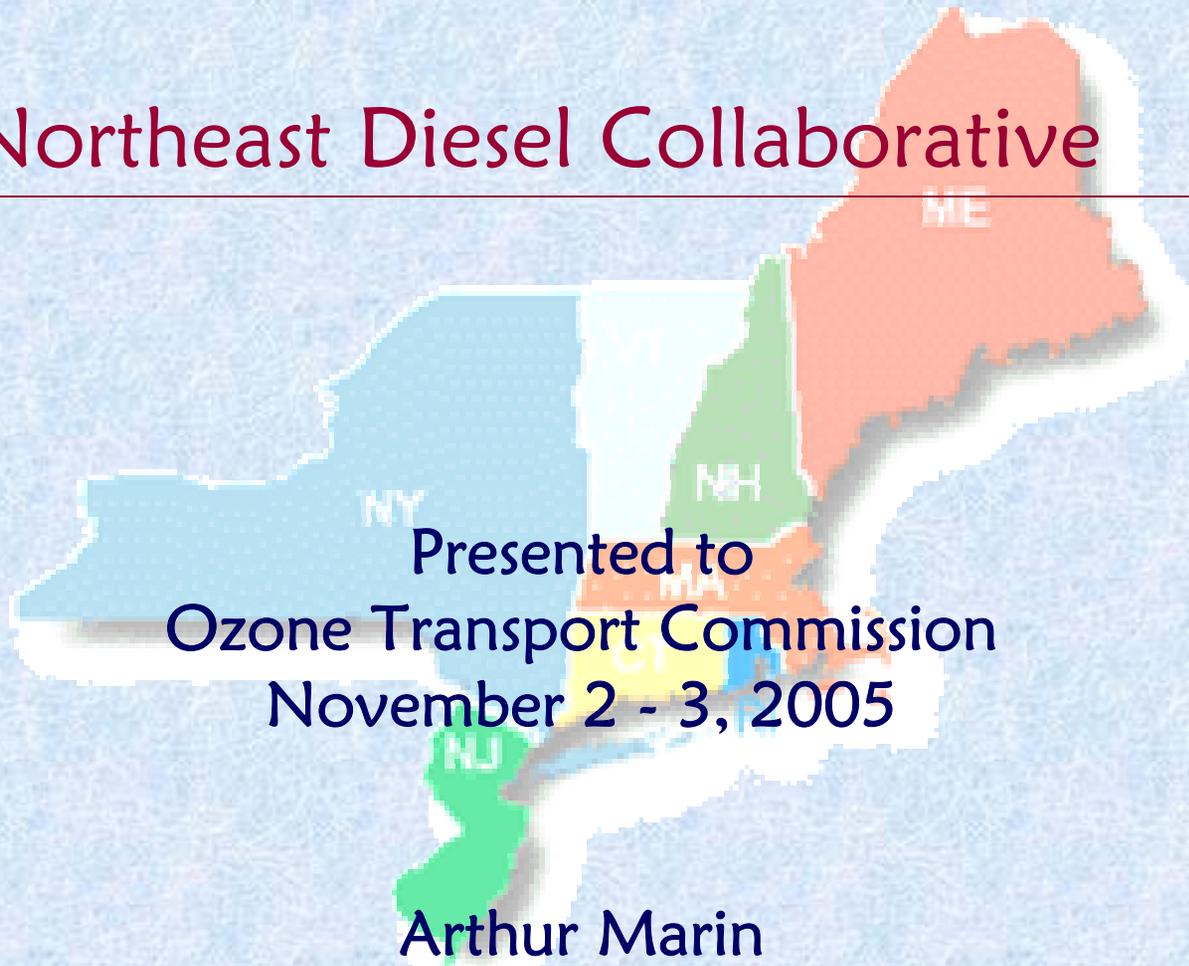


Northeast Diesel Collaborative



Presented to
Ozone Transport Commission
November 2 - 3, 2005

Arthur Marin
NESCAUM

Northeast Diesel Collaborative

- The Northeast's clean diesel campaign is nearly a decade old and has been very successful
- NEDC is a resource dedicated to building on the region's success by focusing, enhancing and expediting this on-going campaign



Goals of the Collaborative

*To reduce diesel emissions
and protect public health*

Establish Brand

- Brand a coordinated regional effort to reduce diesel emissions in the onroad, construction, locomotive, and marine sectors

Build on Success

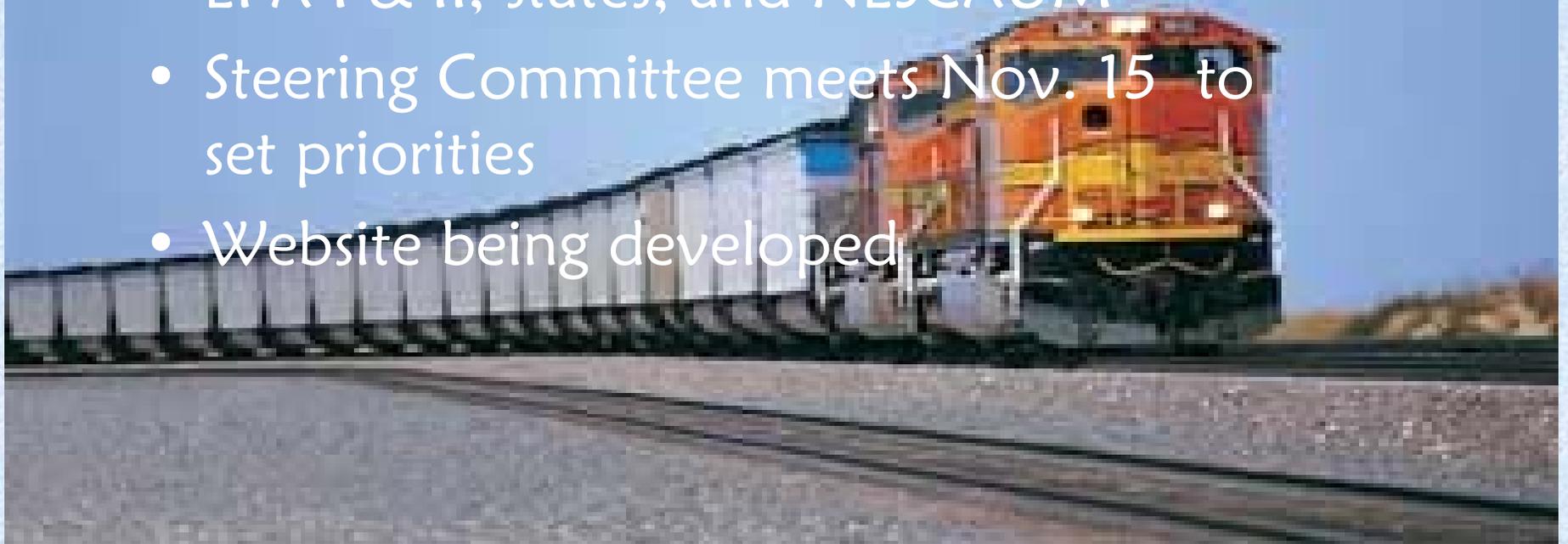
- Use combined successes to build support for both regulatory and voluntary measures

Leverage Funds

- Leverage new funding for initiatives to reduce emissions in key sectors

Status of the Collaborative

- Full-time Collaborative manager at NESCAUM
- Significant in-kind resources from EPA I & II, states, and NESCAUM
- Steering Committee meets Nov. 15 to set priorities
- Website being developed



Steering Committee

State Members

- Connecticut – Tracy Babbidge
- Maine – Lynne Cayting
- Massachusetts –Christine Kirby
- New Hampshire – Mike Fitzgerald
- New Jersey – Peg Hanna
- New York – Tom Lanni
- Rhode Island – Frank Stevenson
- Vermont – Tom Moye

EPA Members

- Region 1 – David Conroy
- Region 2 – Bill Baker

Steering Committee (continued)

NESCAUM Members

- Debbi Edelstein
- Coralie Cooper

NESCCAF Board Members

- Tim Johnson
- Michael Bradley
- Chris Hessler

Northeast Diesel Collaborative

Northeast has long served as both laboratory and proving ground for clean diesel innovation





Building on Success: School Bus Fleets

*Retrofitting more than 4,000 buses
in the Northeast, including*

- EPA's Clean School Bus USA Grants
 - Statewide, Maine – 450 buses
 - Medford, Massachusetts – 70 buses
 - Stamford, Connecticut – 35 buses
 - Manchester/Nashua, New Hampshire – 45 buses
 - Warwick, Rhode Island – 70 buses
- EPA or State Enforcement Settlement Agreements Funding
 - Boston, Massachusetts – 600 buses
 - Norwich, Connecticut – 42 buses
 - New Haven, Connecticut – 180 buses
 - Hartford, Connecticut – 200 buses
 - Bridgeport, Connecticut – 200 buses

Building on Success: Transit Buses

- **Massachusetts Bay Transportation Authority (MBTA) – 980 buses**
 - Purchased ~ 600 new buses, including 358 CNG buses
 - Retrofitted remainder with w/filters and using ULSD
 - Reduced average age in fleet from 14 to 4 years
 - In 2 years, reduced PM by 92% and other emissions by 44%
- **Rhode Island Public Transit Authority (RIPTA)**
 - Using ULSD and plans to retrofit 156 buses
- **Connecticut Transit – Stamford Division**
 - Equipped 31 buses w/filters and using ULSD
- **New York City – 4,749 buses**
 - Purchased more than 3,200 new buses: ~ 600 CNG, 325 hybrid-electric, 2,900+ EGR- and DPF-equipped diesels
 - ~3,600 DPF retrofits by end of 2004; required ULSD beginning in Fall 2000

Building on Success: Fleets

- NYC Sanitation Department
 - Retrofitted 250 vehicles with DPFs and 2 trucks with SCR
- Hospital Shuttle Buses, Boston — 17 buses
 - First privately funded retrofit project in New England
- Tourist Trolleys, Boston — 35 trolleys
 - First such retrofit in the Northeast
- Mack Truck
 - Installed 158 DOCs and 30 DPFs
 - Installed 10 SCR on heavy-duty diesel trucks / 2 in combination with DPFs

**UPS SCR/DPF Combination Truck
with Urea Filling Station**



Building on Success: Ports

- Ferries, New York Harbor
 - Every ferry in New York harbor is being retrofitted, and all private ferries will use ULSD
 - Staten Island Ferry retrofitted with SCR
- Tugboats, New York Harbor
 - Replacing engines in 5 tugboats
- Conley Container Terminal, Boston
 - Retrofitting 36 vehicles (operating in yard & tractors hauling containers) and using ULSD



Building on Success: Locomotives



- **Commuter Rail, Boston**
 - First locomotive retrofit project in the nation
 - 55 trains are fueling with LSD and some are retrofitted with pollution controls
- **Switchyard Locomotives, MA and CT**
 - 30 locomotives have installed auxiliary power units (APUs) to reduce idling

Building on Success: Idle Reduction

- Hunts Point Market, New York City
 - First truck stop electrification project in the U.S.
 - Installed 30 electric/HVAC/cable-ready bays at largest produce market in the U.S.
- New York State Thruway and Bordentown, NJ
- School Buses
 - Every northeast state has a program to reduce school bus idling



Building on Success: Regulations and Agreements

- **NY City Local Law 77**— requires all nonroad equipment operated by the city or by contractors working for the city to be retrofitted
- **Massachusetts Highway Department** — as of March 2005, all construction contracts include requirements for retrofitted equipment
- **MBTA** — since 2001, all construction contracts include requirement for retrofits; more than 40 projects in greater Boston are using retrofitted equipment
- **Idle Reduction** — 5 of the 8 northeast states have rules that limit idling time; EPA Regions 1 & 2 have collaborated w/states on enforcement
- **NJ Fine Particle Diesel Emission Reduction Legislation** — requires retrofit of highway and nonroad public sector engines: funding to be voted on November 8th

NEDC Activities & Strategies

NEDC will draw upon the broad range of measures piloted in the Northeast states to undertake initiatives in several areas.

Examples include:

Technology

- Pilot new diesel emission control technologies
- Expand the base of proven technologies
- Demonstrate reductions in previously uncontrolled sectors
- Improve exposure data to more effectively design control programs
- Use new emissions testing facilities

Regulations & Agreements

- Write model rule(s) to export existing diesel retrofit regulations to other jurisdictions
- Establish agreements for adoption of control legislation and policies at the local/county level

Outreach & Communications

- Produce and distribute “how to” manuals for retrofit projects
- Distribute information on using contract language to promote retrofits
- Educate policymakers, stakeholders, and the public about the importance of cleaning up diesel emissions

NEDC Activities & Strategies

Sample of current activities:

- Presenting ports workshop in early 2006 in NYC
- Exploring partnership with NY Metropolitan Transportation Council, the regional MPO, through its new Clean Technologies Group and through EPA's NY Metro Air Quality Initiative
- Looking at ways to link successful Clean Air Communities program with NEDC

Northeast Diesel Collaborative

