

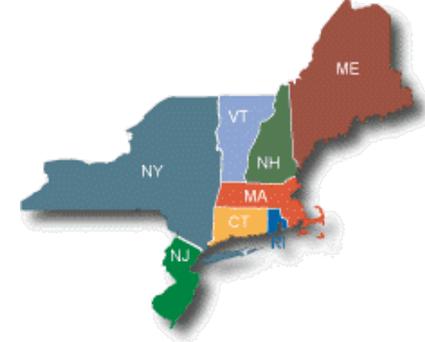


# The Northeast Diesel Collaborative



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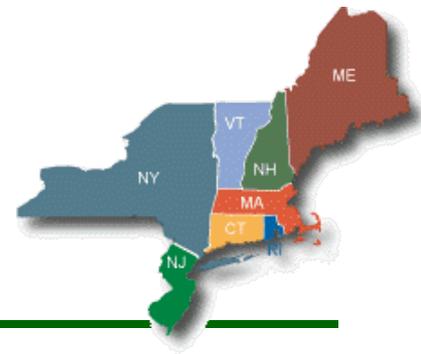
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- Numerous innovative programs in the Northeast and Caribbean are reducing diesel pollution
- With the help of significant funds from various sources (e.g., national grants, state and municipal funds, private funding, enforcement actions, etc.), over **8,000** diesel engines have been retrofitted or repowered
- EPA Regions 1 & 2, the Northeast States for Coordinated Air Use Management (NESCAUM), the Northeast states, Puerto Rico and the Virgin Islands are poised to deliver measurable air quality improvements through the Northeast Diesel Collaborative

# Air Quality Collaboration in the Northeast

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- Successful cooperation among Region 1, Region 2, the northeast states, Puerto Rico and the Virgin Islands to address air quality challenges
- State commissioners share strong concern about elevated levels of fine particles
  - Support aggressive action to reduce diesel emissions now

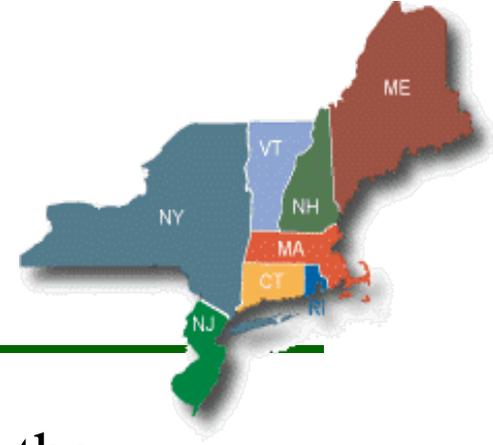
# Why the Northeast?



- The Northeast has some of the highest asthma rates in the country –
  - All six New England states have childhood asthma rates above 10 percent
  - Areas of NYC have childhood asthma rates near 15 percent
  - Puerto Rico has one of the highest asthma rates in the nation
- Twenty five counties in CT, NJ and NY are designated non-attainment for PM and other urban areas just meet the standard for fine particles.
- Reducing diesel exhaust is part of a comprehensive approach to improving air quality and helps us address:
  - Urban environmental issues
  - Environmental justice concerns
  - Children's health issues

# NE Diesel Collaborative Goals

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- Launch local initiatives in communities across the northeast and caribbean
- Expand retrofit requirements to all urban areas and private sector
- Retrofit transit buses in smaller areas, retrofit school buses in EJ areas, establish requirements for municipal fleets across the NEDC states
- Expand port activities along north Atlantic coast
- Expand truck stop electrification along major northeast corridors and increase enforcement of idling restrictions

# Local Initiatives



- In the Northeast, robust local initiatives have helped to reduce diesel pollution
- These multi-stakeholder collaborations have increased participation in EPA's voluntary transportation programs:
  - Greater Boston Breathes Better (GB3),
  - New England Asthma Regional Council (ARC)
  - New York Metro Area Air Quality Initiative (NYMAQI)
- GB3 partners (Gillette, Skanska Construction, Harvard, Tufts, MIT, City of Boston, and the Commonwealth of MA) have reduced transportation related pollution in the Boston area
- ARC was the first multi-state, cross-agency organization in the nation to focus on asthma
  - State and federal leaders representing health, housing, education and environment advise ARC
  - ARC's "Diesel Toolkit" provides information to states, schools and communities about school bus idling and retrofit strategies
- NYMAQI brought together several NY counties, New York City, NYSDOT and the FHWA to commit to reduce diesel pollution via various measures

**NE Collaborative Goal: Launch similar initiatives in other communities**

# Fleet Retrofits

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- **Transit Buses**
  - Nearly 4,000 buses in the major Metro areas (New York, Boston, Providence, Stamford) use pollution reducing filters
- **School Bus Retrofits**
  - Over 4,000 buses in the Northeast are being retrofitted with either filters or catalysts (many transport children in EJ areas)
- **Private Fleets**
  - 17 buses serving major Boston hospitals
    - First privately funded retrofit project in New England
  - 36 tourist trolleys in Boston
    - First trolley retrofit project in the Northeast
- **Locomotives**
  - 12 locomotives have been repowered in MA, CT, NY and NJ

**NE Collaborative Goal: Retrofit transit buses in smaller areas, retrofit schools buses in EJ areas, establish retrofit/clean purchasing requirements for municipal fleets across the Northeast**



# Idle Reduction



- **Truck Stop Electrification**

- Facilities near the New York State Thruway in Albany NY, New Jersey Turnpike in Ridgefield NJ and I-95 in New Haven, CT, & West Gardiner, ME are electrified

- **School Buses**

- Every northeast state has a program to reduce school bus idling that includes outreach materials, bus driver training and commitments to limit idling on school grounds
- EPA Region 2 has signed a Memorandum of Understanding with the New York Association of Pupil Transportation

- **Locomotive Auxiliary Power Units (APUs)**

- APUs have been installed in 37 locomotives in the New England States and NY.

- **State Rules/ Enforcement**

- All 8 northeast states have rules that limit idling time
- Regions 1 and 2 have collaborated with the states on enforcement

**NE Collaborative Goal: Expand truck stop electrification along major northeast corridors and increase enforcement of idling restrictions**

# Construction and Ports Workgroups

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- More than 500 pieces of construction equipment used on major construction projects throughout Northeast have been retrofitted
  - Projects include the Big Dig, World Trade Center, New Haven Q-Bridge
- Port Project Focus on:
  - NY/NJ Port Clean Air Strategy; Ferry Boats; Tug boats and Container Terminals

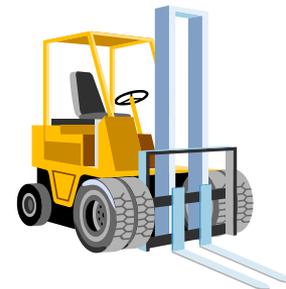


**NE Collaborative Goal: expand construction retrofit requirements to all urban areas and private sector and expand port activities along north Atlantic coast**

# Outstanding Results

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- \$11.9M in state and competitive DERA grants, leveraging an additional \$6.5M toward retrofit/replacement/repower of **municipal & public fleets (i.e. school buses, construction, transit, and municipal vehicles)** since 2008, impacting 1,330 vehicles/engines and leading to over 1,000 tons of NO<sub>x</sub> and 185 tons of PM reduced.
- For the freight/ports/rail sectors: an additional \$21.8M in grants leveraging \$16.5M, impacting 3,400 vehicles/engines and leading to over 12,000 tons of NO<sub>x</sub> and 485 tons of PM reduced.



# NEDC Future

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- Expand partnership participation
- Draw upon stakeholder experiences for new project ideas
- Broaden outreach



# NEDC Coordination Team

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