

Clean Diesel Funding & Projects Diesel Collaboratives

Northern Transportation & Air Quality Summit

August 25, 2010

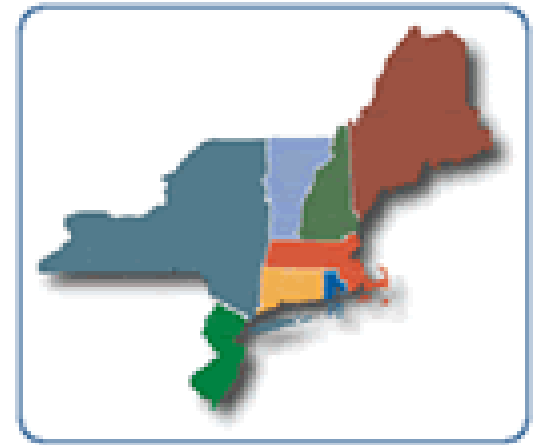
Eric Skelton

NESCAUM – NEDC

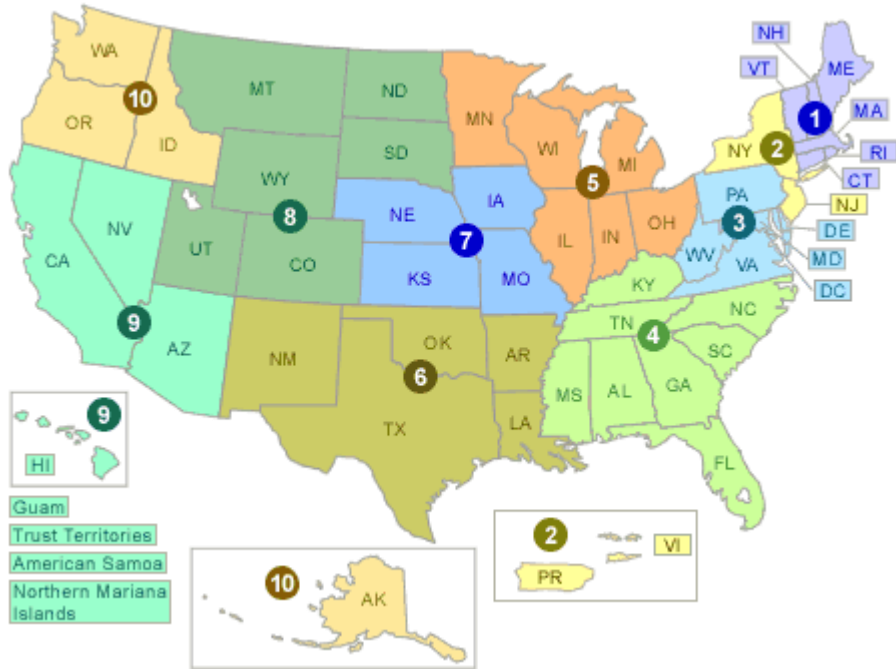
What Is NESCAUM?

Northeast States for Coordinated Air Use Management

- Non-Regulatory, Nonprofit
Clean Air Association
- Governed by State Air Agency Directors
- Representing CT, MA, ME, NH, NJ, NY, RI, VT
- Providing Technical & Policy Support to States



EPA Regions



1&2: Northeast

3: Mid-Atlantic

4: Southeast

5: Midwest

6,7,&MN: Blue Skyways

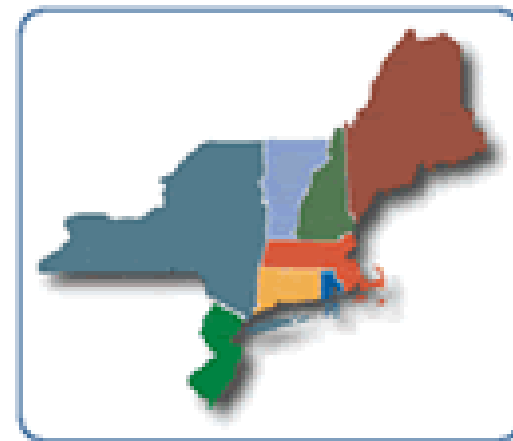
8: Rocky Mountain

9&10: West Coast

Northeast Diesel Collaborative

Membership/Mission

- EPA Region 1 & 2 States
- U.S. Territories in EPA Region 2
- Reduce Diesel Emissions
- Improve Public Health
- Promote Clean Diesel Technology



Priority Sectors: Municipal Fleets, Transit,
Ports, Construction, Freight

Model Contract Specifications

- Model for Large Construction Projects (2008)
- Requires Emission Control as Contract Condition
- Emission Control Equip Costs Built into Contract
- Revision/Review by Construction Workgroup (2010)
- On-road Vehicles – 2007 EPA Highway Stds or DPF
- Generators – Initially DOC; DPF by 1/1/10
- Non-road Equipment > 75 hp – Tier 4 Stds or DOC
- Non-road Equipment – Tier 1 Plus DOC/DPF
- Non-road Equipment (All) – Tier 4 or DPF by 1/1/13
- Access: www.northeastdiesel.org/construction.htm#cl

Clean Diesel Funding Sources

Diesel Emissions Reduction Act (DERA)

- Pursuant to Energy Policy Act of 2005
- Grants Available to States, Non-Profits, Other Govts.
- 30% of Funds Guaranteed to States
- 70% of Funds Awarded Competitively
- FY-08: \$49.2 M; FY-09: \$60M; FY-10: \$60 M
- Authorization Expires After FY-10
- Reauthorization Efforts Underway in Congress

Clean Diesel Funding Sources

American Recovery & Reinvestment Act (ARRA)

- Congressional Federal Stimulus Package (2009)
- One-Time \$300M Infusion into DERA
- Same Allocation Formula as DERA
- Requires Demonstration of Jobs Creation & Retention
- Quarterly Reporting to EPA & OMB
- Authorization for FY-09 Only

Clean Diesel Funding Sources

Congestion Mitigation & Air Quality (CMAQ) Fund

- Authorized by Clean Air Act Amendments of 1990
- Historically Allocated Exclusively to Transportation Projects
- Funds Given to State DOTs, MPOs, & Transit Agencies
- 2005 Transp. Bill (SAFETEA-LU) Changed Allocation
- Clean Diesel Project Priority for Portion of Funding
- Authorization Through FY-09

Clean Diesel Funding Sources

Supplemental Environmental Projects (SEP)

- Part of a Civil Action to Resolve Environmental Violations
- Voluntary Agreement Between EPA & Alleged Violator
- Environmental Benefit in Exchange for Penalty Mitigation
- Relationship Between Violation & Environmental Benefit
- States Often are Co-Signers to Agreements
- Agreements Stipulate a Project \$\$ Amount
- Commonly Involve Petroleum Refineries & Utilities

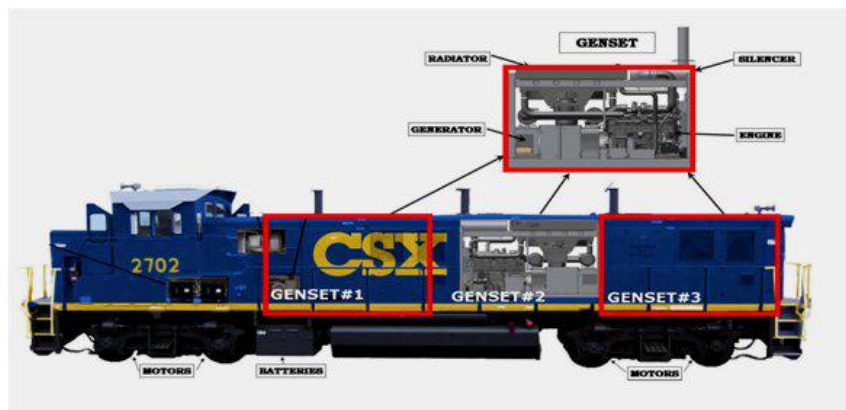
Common State Diesel Projects

- Retrofits: School & Transit Buses, Refuse Vehicles, Construction Vehicles/Equipment, Cargo Equipment
- Electrification: Truck Stops, Ports, Rail Yards
- Locomotives: Repower (Gen Set), Retrofit, Idle Reduction
- Ferries: Repower (Main Propulsion, Generators)
- Drayage Trucks – Port Facilities
- Fishing Vessels: Repower (Maine)

NESCAUM-NEDC Projects

- Hybrid Truck Purchase Subsidies
- Construction Equipment Retrofits
- Ambulance Bay Electrification
- Marine Vessel Repower
- Utility Truck Retrofit
- Port Cargo Equipment Repower
- Locomotive Repower/Retrofit
- Locomotive Idle Reduction

Locomotive Repower/Retrofit



- Replace Motive Power Unit with Series of Gensets
- Power Up One or More Gensets as Needed
- Option to Add Aftertreatment Device (DOC/DPF)
- Cost: ~\$1.4 Million for Genset Repower

Locomotive Idle Reduction



- Electric Plug-In Station (Valero Refinery, NJ)
- Powers Locomotive Electric Block Heaters
- Eliminates Need for Cold Weather Idling
- Cost: ~\$150,000

Locomotive Idle Reduction



- Auxiliary Power Unit
- Mounted onto Locomotive
- Provides Heat & Power to Vital Systems
- Allows Shut-Off of Primary Motive Power Unit
- Cost: ~\$35,000
- Variation: Automatic Engine Stop/Start System

Questions? – Contact Info

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