NESCAUM Voluntary Mobile Source Emission Reduction Initiatives

Mobile Source Technical Review Subcommittee

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June 12, 2002

NESCAUM Background

- The Northeast States for Coordinated Air Use Management
- A nonprofit organization founded in 1967 to provide technical assistance and policy guidance to the Northeast states air pollution control programs

Clean Air Communities

- The Northeast States Clean Air Foundation (NESCAF) is NESCAUM's foundation which that launched Clean Air Communities.
- Clean Air Communities empowers local community groups to improve air quality in their neighborhoods.
- The primary beneficiaries of Clean Air Community funding are groups located in lower income neighborhoods of New York City.

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Traditional Barriers

- Proponents of Environmental Justice traditionally at loggerheads with Emissions Trading community
- Outcome of economic and regulatory drivers, resultant pollution effects burden disadvantaged “host” communities
- Real and/or perceived effects considered discriminatory, disproportionate, unjust

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CAC Model Design

- Harmonize EJ and ET interests around urban air quality improvement projects
- Structure a “clearinghouse” to facilitate achievement of goals, initiatives
- Support the rationale that environmental equity in disadvantaged communities may be supported through market based approaches

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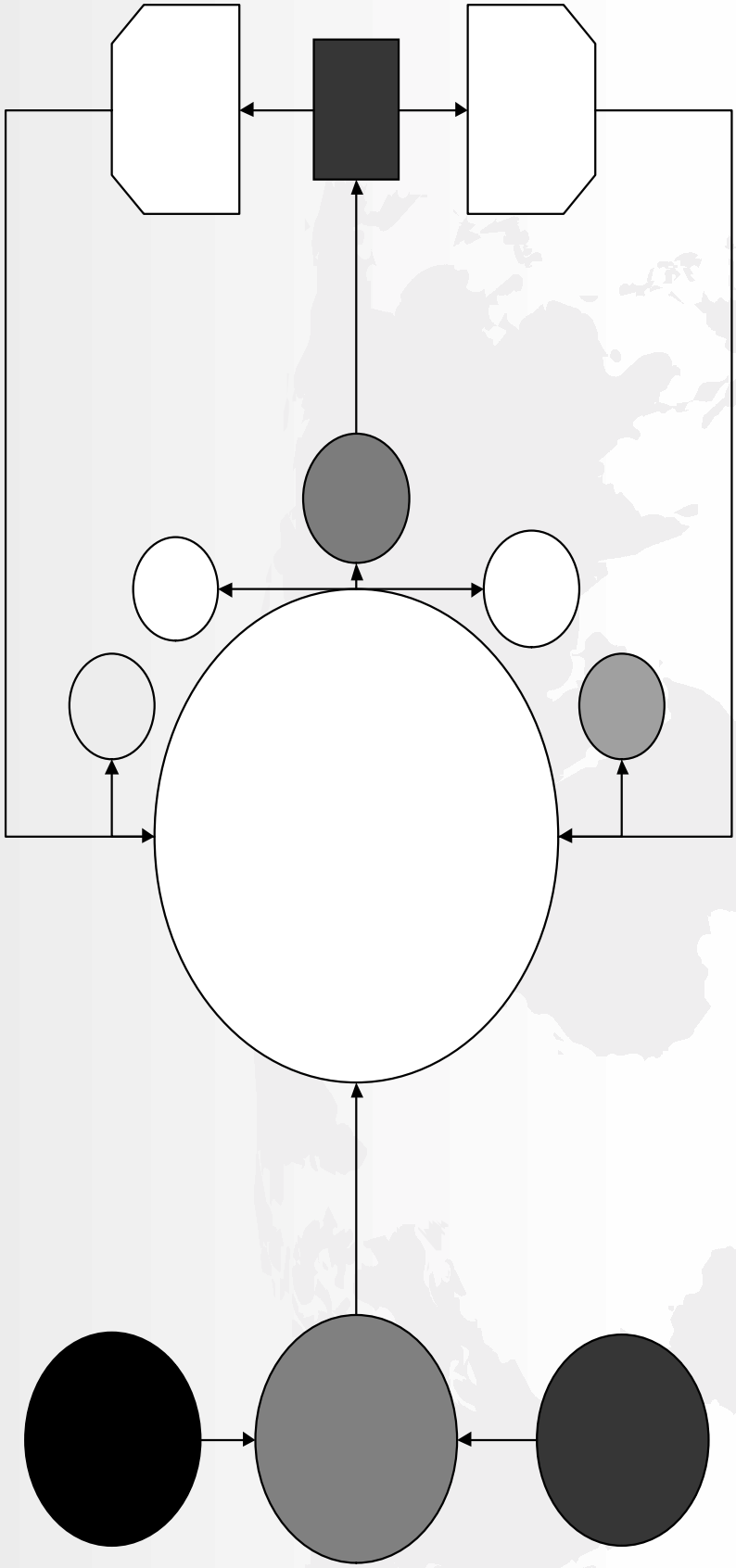

Key Objectives

- **Community Partnerships**: Build a diverse, local coalition with a mutual interest in reducing urban air pollution
- **Synergies Between EJ and Clean Air Markets**: Develop a framework for using market mechanisms that are consistent with environmental justice concerns
- **Community-Based Pollution Reduction**: Through a $5 million grant from Con Ed, implement clean air strategies to reduce local air pollution
- **Sustainability**: Advance a long-term, sustainable model for developing community-based clean air initiatives

Organizational Structure

- Steering Committee
  - Natural Resources Defense Council (NRDC)
  - New York State Department of Environmental Conservation (NYSDEC)
  - Con Edison
  - Northeast States Clean Air Foundation (NESCAF)
- Advisory Group
  - Community-based health and environmental groups
  - Political and government representatives
  - Academic organizations

What's Ahead

- First Projects Announced - Fall 2001
- First Projects Implemented - Winter 2001
- New Funding Cycles - Spring 2002
- Explore ERC markets - Summer 2002
- Begin New Partnerships In Northeast Cities, 2002 - 2003

Truck Stop Electrification

- Install 30 electric/HVAC/Cable ready bays at Hunts Point Market
- Evaluate the benefits of both the Hunt's Point market installations and similar installations on the New York State Thruway.

Hunts Point TSE Project

- Project partners include Sustainable South Bronx, New York Power Authority, IdleAire Technologies, CAC
- Will create a zero idling zone, eliminate diesel exhaust,and provide needed health benefits
- First commercial application of this technology

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GMDC PV Solar Array Project

GMDC is a not-for-profit industrial center in Greenpoint, Brooklyn. Working with PowerLight, NSYERDA and CAC, GMDC will install a 135 kW system on two units. The project will supply GMDC with 100% of their Humbolt facility's total power demand utilizing one of the region's first commercial applications of a zinc-bromide battery with 50 kW storage.

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Multi-Stakeholder Project

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WASTE MANAGEMENT

KINGDOM group

Turnkey CNG Fueling Systems

LUBRIZOL

Fluid technologies for a better world

In conjunction with participating EJ community groups, CAC will design an aftermarket diesel retrofit project for Waste Management's 180 vehicle refuse fleet. CAC will oversee the installation of oxidation catalysts, particulate traps, and wet-hose loading of ULSD for this project. A longer term, CNG solution will also be implemented.

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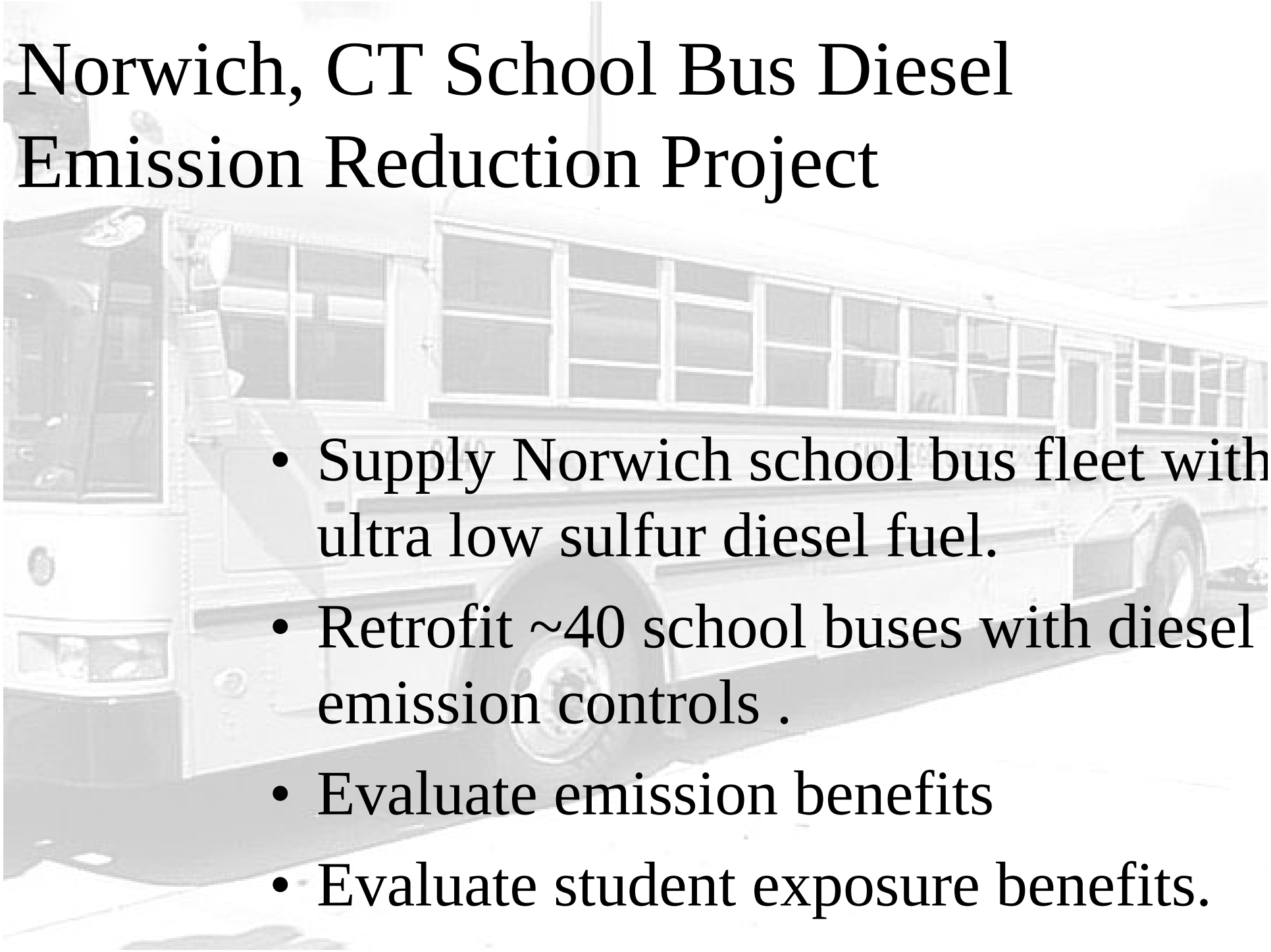
NYC Department of Sanitation: Ultra Low Sulfur Diesel Use

UPS SCR/DPF Combination Truck with Urea Filling Station

Norwich, CT School Bus Diesel Emission Reduction Project



- Supply Norwich school bus fleet with ultra low sulfur diesel fuel.
- Retrofit ~40 school buses with diesel emission controls .
- Evaluate emission benefits
- Evaluate student exposure benefits.

Clean Air Construction

- Evaluate the effectiveness and feasibility of diesel emission control equipment on construction equipment.
- Requirement to retrofit construction equipment used on the Central Artery Tunnel project in Boston. Use of emulsified diesel in CA/T equipment.
- Connecticut DOT adopted a similar control program for their I-95 New Haven Harbor Crossing Corridor Improvement program.

Smoke Testing

- Nine States have implemented smoke opacity programs (NESCAUM states and Maryland) to target gross HD emitters.
- Testing takes place on the highway at toll plazas and truck stops.
- Prior to smoke testing programs, no heavy-duty emissions related inspection and maintenance programs existed.
- NESCAUM hosted a tri-national smoke testing workshop in March 2002.

Other Voluntary Programs

- Clean marine engine initiative

  - MOU with marine engine dealers to sell cleaner engines on an accelerated schedule (NH)
- Massport (MA) initiative to reduce aircraft emissions
- Fleet collective purchasing initiative to increase the market for advanced technology vehicles in the Northeast

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