

Leveraging Funding through Public/Private Partnerships

New England Railroad Club Expo 2006

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New York Power Authority

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New York Power Authority

- State-owned non-profit public benefit corporation
- Largest state utility in the nation
- Provides power to government agencies and authorities, community-owned electric systems, private companies for economic development, and private utilities for resale
- Provides power for all public services in New York City and Westchester County, including ports and commuter railroads
 - Port Authority of New York and New Jersey and Metropolitan Transportation Authority are NYPA customers

Clean Transportation Program

Program Goals

- Promote clean transportation technologies that reduce fuel consumption and emissions, including electric-drive, anti-idling and emission control technologies
- Provide technical and financial support to customers in the demonstration of these technologies

Program Status

- NYPA has partnered with customers and stakeholders to place 800 electric-drive vehicles in service around the state
- Vehicles include trucks, buses, vans, passenger cars, neighborhood vehicles, and off-road vehicles and equipment
- NYPA has funded projects through grants and loans



NYPA Financing Grants

Budget

- About \$1 million annual budget for clean transportation projects
- Leverage NYPA funds with city, state, and federal grants and customer cost share
- Co-funding: NYCDOT, NYSDOT, NYSERDA, NESCAF, EPA, DOE, EPRI

Eligibility

- NYPA customers

Funding Criteria

- Energy efficiency and emissions reductions
- Co-funding/cost share

NYPA Financing Loans

Budget

- Significant annual capital budget for energy efficiency projects, including transportation

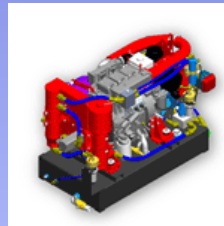
Eligibility

- NYPA customers

Funding Criteria

- Energy efficiency
- Loans recovered within life of equipment through energy/O&M savings – surcharge to electric bill
- Projects may be financed in full or in part
- Payback target: ten years

Railroad Project Opportunity



Howland Hook, Staten Island, New York

Project Objectives

- Lower emissions
- Reduction in fuel consumption
- Lower maintenance costs
- Reduction in noise pollution

Project Partners

New York Container Terminal

Port Authority of New York and New Jersey

Technology Options

- Hybrid-electric switch locomotive
- Locomotive idle reduction system – diesel or electric
 - Automatic engine stop/start system
 - Auxiliary power unit
 - Shore power system

Project Status

- NYCT is currently exploring technology options
- NYPA has proposed to finance project

Other Projects

Truck Stop Electrification



Hunts Point, Bronx, New York

Project Objective

- Eliminate engine idling through truck and refrigerated trailer electrification

Project Partners

- Hunts Point Cooperative Market
- NESCAF/Clean Air Communities
- Sustainable South Bronx

Technology

- IdleAire Technologies Corporation off-board truck electrification technology

Project Status

- Off-board electrification devices installed at 28 parking bays in 2002

Other Projects

Hybrid-Electric Trucks



Queens, New York

Project Objective

- Introduce hybrid-electric trucks into national delivery fleet

Project Partners

- Charmer-Sunbelt Group
- NYSERDA/NYCDOT (CMAQ)

Technology

- Azure Dynamics Corporation
 - Super 7 hybrid-electric truck
 - Parallel hybrid system
 - Idle off/electric launch
 - DOCs

Project Status

- Two trucks to be delivered August 2006

Other Projects

Airport Ground Support Equipment Electrification



New York City, Albany

Program Objective

- Replace diesel and gasoline ground support equipment with electric equipment

LaGuardia Airport

- Project Partners
 - Delta
 - Queens Clean Air Project

Albany Airport

- Project Partners
 - Albany Airport
 - Delta
 - FAA (VALE Program)
 - NYSERDA

Technology

- Electric baggage tractors, belt loaders and aircraft tow tractors, and fast charge infrastructure

Status

- Both projects to be completed in 2006

Contact Information

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