2011 DOE Vehicle Technologies Program Review Presentation

NJ COMPRESSED NATURAL GAS REFUSE TRUCKS, SHUTTLE BUSES AND INFRASTRUCTURE

Chuck Feinberg, Principal Investigator
New Jersey Clean Cities Coalition
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Project ID #

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ARRAVT051

Overview

Timeline

- Start date: Dec. 15, 2009
- Complete date: Dec. 14, 2013

Budget

- Federal Share:
 - \$14,997,240
- Non-federal share: \$31,672,444
- Total Project: \$46,669,684

Partners

- Atlantic County Utilities
 Authority
- Waste Management of NJ
- Clean Energy®
- Atlantic City Jitney Association
- Central Jersey Waste & Recycling
- Blue Diamond Disposal
- Suburban Disposal
- Parking Spot Group

Objectives

- Stimulate the economy by creating and preserving green jobs
- Increase visibility of the DOE's role in support of alternative fuel deployment projects
- Reduce tailpipe emissions in heavy-duty fleet applications as natural gas refuse trucks and shuttle buses are deployed
- Reduce foreign oil dependency by having fueling stations that provide a domestically produced fuel;

Objectives – con't

- Educate the public about the "mainstream availability" and other benefits of using a clean, domestically produced fuel as more vehicles are sold and owners operate their vehicles throughout the region.
- Reduction more than 900,000 pounds of identified criteria pollutants and greenhouse gas emissions annually.
- Displace approximately 2 million gallons of petroleum per year as a direct result of this project.

Approach

- The NJCCC has assembled and is managing a public/private partnership which is utilizing DOE ARRA grant funds to offset the cost of:
 - Deployment of 289 natural gas vehicles (NGVs) in refuse and shuttle bus fleets operating across the state of New Jersey.
 - Design and construction of 6 Compressed Natural Gas fueling stations at various locations across the state.
 - Public outreach and education, and for significantly increased visibility of alternative fueled vehicles

Technical Accomplishments

- NEPA Categorical Exclusions have been approved for all 6 CNG Station sites as well as for vehicle purchases
- Design, construction and operation contracts have been awarded for all of the stations
- Two stations are operational, with one of them currently open to the public
- Four stations are in the permitting process



Deployment Accomplishments

 9 CNG garbage trucks from two fleets have been deployed as of March 9.

70 CNG shuttle buses have been deployed as of



Collaboration

The NJCCC has sub-recipient agreements with:

- Blue Diamond Disposal
- The Atlantic County Utilities Authority
- Waste Management of NJ
- Clean Energy, on behalf of Central Jersey Waste,

Parking Spot, Suburban Disposal & th

Jitney Association







Future Work

- Order and deploy additional NG vehicles
- Continue construction activities for new stations
- Continue to provide training for fueling and maintaining NGVs
- Continue to provide public educational outreach workshops and station marketing campaigns
- Work with additional fleets to leverage success.





Summary

- NJ Clean Cities Coalition is leading a public/private team to implement the first large-scale deployment of alternative fuel vehicles and infrastructure in NJ
- Highly visible vehicle fleets of 5 trash collection operators and 2 shuttle bus companies being converted to CNG
- Six CNG stations to be built which will ultimately be available to additional fleets and the public.
- Project is stimulating significant interest from other public and private fleets in CNG and other alternative fuels