CLEAN CITIES ATLANTA
PARTNERSHIP FOR CLEAN TRANSPORTATION

CENTER FOR TRANSPORTATION AND THE ENVIRONMENT

DeKalb County/Metropolitan Atlanta Alternative Fuel and Advanced Technology Vehicle Project

Don Francis *Clean Cities Atlanta*
Steve Clermont *Center for Transportation & the Environment*

May 12, 2011

ARRAVT060

Overview

Timeline

- Start: March 8, 2010
- Finish: March 7, 2014
- 9% complete

Barriers

- Availability and pricing of CNG
- LFG-to-CNG production efficiency and reliability
- Public and fleet demand for CNG

Budget

- Total project funding
  - *DOE Share: $14,983,167*
  - *Recipient share: $24,681,387*

Partners

- County & City Governments
- Local & regional businesses
- Non-profits

Objectives/Relevance

- Increase supply of alternative fuels
  - Implement LNG-to-RNG facility at DeKalb County landfill
- Increase availability of alternative fuels
  - Implement 6 Public-Access CNG refueling stations
- Decrease demand for petroleum fuels
  - Deploy over 200 alternative fuel and alternative technology vehicles
    - *Technologies: CNG, Diesel Hybrid, and Hydraulic Hybrid*
    - *Applications: Sanitation trucks, Delivery trucks, and Airport Shuttles*
- Provide Outreach/Marketing/Training
- Collect & Report Operational Data
  - Vehicles, Infrastructure, Training & Outreach

Approach

Month/Year	Milestone
June 2011	50% of alternative fuel/technology vehicles ordered
August 2011	100% of fueling infrastructure construction started
December 2011	100% of alternative fuel/technology vehicles ordered
March 2012	100% of fueling infrastructure operational
March 2012	100% of alternative fuel/technology vehicles deployed
March 2012	100% of Training complete
December 2012	100% of Outreach/Marketing complete
March 2014	100% of Data Collection complete

Technical Accomplishments & Progress

- Completed sub-recipient contracts agreements
- Received NEPA Categorical Exclusions for infrastructure and vehicles
- Received required permits on infrastructure projects
- Issued solicitations for bids on all infrastructure projects
- Selected contractors for infrastructure projects
- Deployed 30 diesel hybrid beverage delivery trucks (Coca-Cola Refreshments).
- Deployed 12 CNG Airport Passenger Shuttles (City of Atlanta)
- Deployed 20 CNG Airport Passenger Shuttles (The Parking Spot)

Collaborations/Partnerships

- Clean Cities Atlanta
- DeKalb County
- City of Atlanta - Atlanta Airport
- Coca Cola Enterprises
- PS Energy Group
- United Parcel Service
- The Parking Spot
- City of College Park
- Sustainable Atlanta
- Clean Energy
- Center for Transportation & the Environment

Future Work

- 2011
  - Order remaining vehicles
  - Continue vehicle deployments
    - *Continue vehicle training*
    - *Conduct Outreach/Marketing events around vehicles*
    - *Begin Data Collection on Vehicles*
  - Initiate construction of infrastructure projects
  - Complete construction on CNG refueling stations
  - Begin operations of CNG refueling stations
    - *Conduct infrastructure training*
    - *Conduct Outreach/Marketing events for station openings*
    - *Begin Data Collection on refueling stations*
- 2012
  - Complete Vehicle Deployments
  - Complete construction on LFG-to-RNG conversion facility
  - Begin operations of LFG-to-RNG conversion facility
    - *Conduct infrastructure training*
    - *Conduct Outreach/Marketing events for conversion facility openings*
    - *Begin Data Collection on conversion facility*
- 2013
  - Continue Data Collection & Reporting on vehicles and infrastructure

Summary

The Clean Cities Atlanta Coalition has established a program goal of expanding the use of alternative fuels and advanced technology vehicles in the metropolitan Atlanta region. Deemed a non-attainment area for particulate matter (PM2.5) and ozone, including its precursors nitrogen oxides (NOx) and volatile organic compounds (VOCs), by the Environmental Protection Agency, the Atlanta region will achieve significant public health benefits from emissions reduction. This collaborative will provide a template for the expanded use of locally produced renewable transportation fuel in support of energy independence. Finally, this project will demonstrate the viability of alternative fuel vehicles and advanced technology vehicles in a variety of applications.