



The Ohio Advanced Transportation Partnership (OATP)

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Project ID: ARRAVT054

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OVERVIEW

Timeline

- Start: February 1, 2010
- Finish: December 31, 2013
- 30% Complete

Budget

- Total Project – \$31,506,113
- DOE Share – \$11,041,500
 - Partner Contribution - \$ 21,148,702

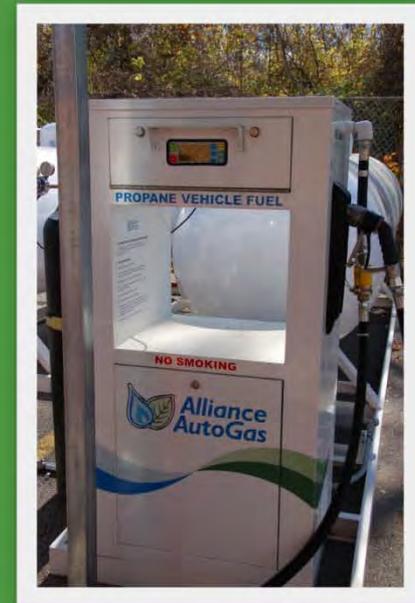
Barriers

- Increased demand of AFVs vs. OEM availability
- Insufficient competition among vendors in industry = higher prices
- Recession
- Federal Requirements

Partners

The Ohio Advanced Transportation Partnership is comprised of 27 partners. Partners include representatives from government, private and non-profit fleets.

Columbus Yellow Cab Propane Taxi and Fueling Infrastructure



OBJECTIVES

- **OATP will create new jobs as well as save existing ones.**
- **OATP will facilitate sustainable alternative fuel market in the region**
 - **Network of stations support future AFV use**
 - **Critical mass of AFVs support network of stations**
 - **Assist development of alternative fuel station corridor connectivity**
- **OATP will include media events, public education campaigns, and training for drivers and station operators.**
- **OATP will reduce petroleum use, save energy, improve air quality, and increase energy security.**

Estimated Reductions

| NOx | PM | VOCs | CO2 | Petroleum Use | GHGs |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| 57,745.9 pounds | 679.2 pounds | 7,212.8 pounds | 103,278.76 pounds | 875,927 gallons / year | 1,939,994.70 pounds |

Based on Argonne National Laboratory models

OATP Project Details

OATP brings to Ohio the deployment of alternative fuel vehicles, construction of fueling and charging facilities, and public education campaigns, which represent significant investments in Ohio's transportation future.

The 337 alternative fuel vehicles include:

- 134 Compressed Natural Gas (CNG) vehicles
- 163 Propane vehicles
- 35 Hybrid Electric vehicles
- 5 Dedicated Electric vehicles

The 16 unique fueling locations include:

- 2 locations for electric vehicle charging
- 8 CNG stations
- 6 propane fueling sites

•50 marketing activities, media campaigns, training and public education events

APPROACH

| Month/Year | Milestone |
|-----------------------|---|
| March 2011 | Execute all sub-recipient contracts including new sub-grantees |
| April 2011 | All NEPA EQs submitted and approved |
| May 2011 | Vehicle ordering 50% complete |
| June 2011 | Fueling infrastructure 33% complete |
| July 2011 | Vehicle deployment 50% complete |
| August 2011 | Vehicle ordering 100% complete |
| September 2011 | Completion of training activities |
| October 2011 | Vehicle deployment 100% complete |
| November 2011 | Completion of outreach/education activities |
| December 2011 | Fueling infrastructure 100% complete |

TECHNICAL ACCOMPLISHMENTS & PROGRESS

- **Vehicles**
 - **2 CNG vehicles deployed**
 - **28 propane vehicles deployed**
 - **11 hybrid electric vehicles deployed**
 - **5 dedicated electric vehicles deployed**
- **Infrastructure**
 - **Columbus Yellow Cab propane fueling station 100% complete**
 - **Cleveland Ace Taxi propane fueling station 100% Complete**
 - **Frito-Lay charging location 100% complete**
 - **City of Hamilton charging location 50% complete**
 - **Ansonia Local School District 30% complete**
 - **Pike-Delta-York Local School District 20% complete**
 - **City of Columbus CNG fueling station 15% complete**
 - **Rumpke CNG fueling station 15% complete**
 - **City of Dublin CNG fueling station 10% complete**
- **Media campaign to promote OATP ongoing**
- **Technical Assistance for infrastructure locations 100% complete**



The Ohio Advanced Transportation Partnership Sub-Grantees



Pike Delta York Local Schools



Ansonia Local Schools



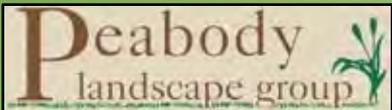
City of Hamilton



City of Hamilton



Green Tech



Friends Business Source



COLLABORATIONS/PARTNERSHIPS

Private:

**Airport Fast Park Cleveland
Clean Energy
Cleveland Ace Taxi Service
Columbus Yellow Cab
Columbus Regional Airport Authority
Dillon Transport
Findlay Machine & Tool
Friends Business Service
Frito-Lay
GreenTech
Ohio Agricultural Research &
Development Center
Peabody Landscape Group
Rumpke of Ohio
Sharp Community Resources
U-Haul
Vectren**

Government:

**City of Cincinnati
City of Columbus
City of Dublin
City of Hamilton
City of Logan
Franklin County
Franklin County Board of
Developmental Disabilities
Union County Sheriff**

Non-profit:

**Ansonia Local Schools
Mid-Ohio Foodbank
Pike-Delta-York Local Schools**

Frito-Lay Electric Delivery Truck



FUTURE WORK

Activities for 2011 Fiscal Year (Phase 2)

- **Build on Preparatory Work from Phase 1**
- **Complete NEPA process for Vehicle and Infrastructure Projects**
- **Complete Vehicle Ordering**
 - **Target completion: August 2011**
- **Complete Equipment Ordering**
 - **Target completion: October 2011**
- **Complete Station Grand Openings: Winter 2011**
- **Assist Partners with Media Events**
- **Partners will Complete Driver and Operator Training**
- **Hold Consortium Meetings and Collaborative Sessions on Project Technologies**
- **Launch Marketing and Outreach Campaign**
- **Data Collection and Inventory Tracking**

SUMMARY

Through the deployment of [337](#) alternative fuel and advanced technology vehicles and the construction of [16](#) fueling and charging locations, OATP will reduce petroleum use in the state of Ohio and thus reduce harmful emissions and improve air quality.

This project will serve as a catalyst to help transform Ohio's transportation sector to one that relies less on petroleum. OATP partners will share their success stories with other fleets across the state. These fleets may in turn decide to deploy alternative fuel vehicles, which will lead to additional job creation, petroleum use reduction, and a strengthening of our country's energy security.



Clean Fuels Ohio strives to improve air quality and health, reduce environmental pollution, and strengthen Ohio's economy by increasing the use of clean, domestic fuels and energy-saving vehicles.