



PENNSYLVANIA PARTNERSHIP TO PROMOTE NATURAL GAS VEHICLES

DELAWARE VALLEY
dvrpc
REGIONAL
PLANNING COMMISSION



P3NGV

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Delaware Valley Regional Planning Commission

June 19, 2014

Project ID #TI039

Overview

Timeline

Start date – February 2013

End date – January 2015

25 percent complete

Budget

- Total funding: \$319,038
- DOE share: \$319,038
- Contractor share: \$0
- FY13 (received): \$25,761
- FY14 (budgeted): \$248,922
- FY15 (budgeted): \$44,355
- 21 percent of total funds spent as of 3/31/2014

Barriers Addressed

Consumer reluctance to consider new technologies

Availability of alternative fuels and electric charging station infrastructure

Availability of AFVs and electric drive vehicles.

Lack of technical and personal experience with new fuels and vehicle technologies

Partners

Interactions/collaborations

- *Greater Philadelphia Clean Cities (GPCC):* Key partner in all areas of project
- *Pittsburgh Region Clean Cities (PRCC):* Advisory role + deployment in western PA
- *Pennsylvania Department of Environmental Protection (PA DEP):* Advisory role, coordination with Commonwealth programs
- *PECO Energy Company (PECO) and Philadelphia Gas Works (PGW):* Technical advice and opportunity identification.

Project lead - DVRPC

Relevance



Project Objectives

- P3NGV will target and address obstacles to natural gas vehicle (NGV) adoption and use in municipal refuse and school transportation sectors.
- DVRPC and its project partners will offer technical assistance, workshops, trainings, and informational materials.
- This project will provide general information to potential NGV owners and operators and addresses code enforcement and permitting, procurement processes, public safety (e.g., first responders), and maintenance.

Supported Vehicle Technology Program Deployment Goals

- To provide technical and educational assistance to support local communities and partnerships that promote better understanding of the benefits of these new technologies.
- By 2020, to achieve a petroleum reduction of over 2.5 billion gallons per year through voluntary adoption of alternative fuel vehicles and infrastructure
- To ease market introduction of alternative fuels and new electric drive vehicle technologies through voluntary efforts in partnership with local communities
- Promote technologies initially in niche markets and develop, as needed, strategies for more widespread deployment.
- Strengthen capacity of a regional partnership to promote alternative fuel vehicles.

Milestones



Month/Year	Status	Milestone
March 2013	Complete	Submit a detailed spend plan to U.S. Department of Energy (DOE)
March 2013	Complete	Hold a kick-off meeting with U.S. DOE (1.2)
March 2013 and Quarterly	Complete and Ongoing	Submit and update a schedule/timeline to U.S. DOE
March 2013-Dec. 2014	Partially Complete	Technical Assistance (3.3)
June 2013 and May 2014	Partially Complete	Workshops – Municipalities (5.2)
March-April 2014	Preparing	Workshops – School Districts (5.1)

Milestones (2)



Month/Year	Status	Milestone
April 2014	In Process	Analyze municipal and school district procurement processes. Make recommendations. (2.1)
June and July 2014	Preparing	Workshops – Private Waste Haulers (5.3)
April-Sept. 2014	In Process	Strategic Planning for AFV Education (3.2)
May-July 2014	Preparing	Training – Public Safety (4.1)
May-Aug. 2014	Preparing	Workshops – Codes and Permitting (2.2)
June-Oct. 2014	Preparing	Trainings – Maintenance (3.1)
As Needed	Ongoing	Submit public information materials to U.S. DOE for review (1.3)

Project Approach to Deployment

Task 1: Project Management

Task 2: Policy Initiatives

- Procurement Process Analysis and Recommendations
- Workshops for Code Enforcement officials

Task 3: Barrier Reduction Initiatives

- Trainings for Maintenance Personnel
- Strategic Planning for Alternative Fuel Vehicle Education
- Pennsylvania Natural Gas Vehicle Grant Program Analysis and Recommendations

Task 4: Safety and Training Initiatives

- Trainings for public safety officials and first responders

Task 5: Market Development/Outreach Initiatives

- Workshops for School District Officials
- Workshops for Municipal Officials
- Workshops for Small Private Trash Haulers

Project Accomplishments (1)



Incorporated Regional Partners into Project Management Structure

- Formalized project partners group. Representatives of DVRPC, Greater Philadelphia Clean Cities, Pittsburgh Region Clean Cities, PECO Energy Company, Philadelphia Gas Works, and Pennsylvania Department of Environmental Protection meet regularly to review project progress and coordinate project activities
- Created stakeholder and expert advisory group to provide feedback and comments on project activities
- Executed contract with Greater Philadelphia Clean Cities

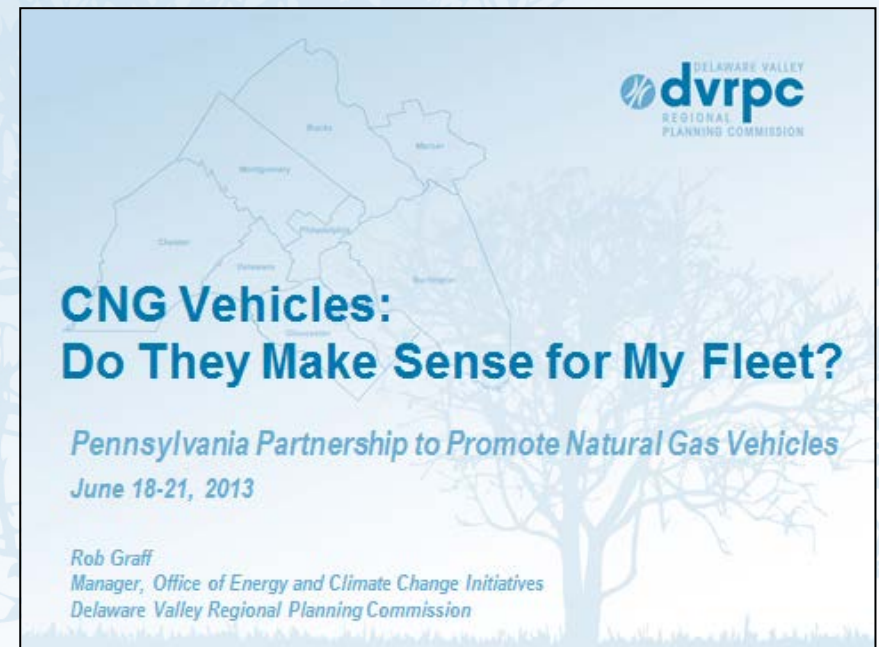
VTP Deployment Goal: Build regional capacity

Project Accomplishments (2)

Deployed five workshops for municipal officials

- Speakers from Greater Philadelphia Clean Cities, Waste Management, Landi Renzo USA, Air & Gas Technologies, PECO Energy Company, and Pennsylvania Department of Environmental Protection
- Provided general information on natural gas vehicle technology and operations
- Focus on refuse vehicles

VTP Deployment Goal: Promote better understanding of technology; promote technology in niche market



Project Accomplishments (3)



Presented at Delaware Valley Association of School Business Officials

- Solicited comments on proposed workshops for school administration, business, and transportation officials
- Focus on school buses

VTP Deployment Goal: Promote better understanding of technology; promote technology in niche market

Natural Gas School
Buses: Opportunities and
Challenges

DVASBO
*Delaware Valley Association
of School Business Officials*
28th Annual Trade Show

November 15, 2013

NW FINANCIAL GROUP, LLC
Exceeding Expectations

DELAWARE VALLEY
dvrpc
REGIONAL
PLANNING COMMISSION

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Project Accomplishments (4)

Selected National Alternative Fuels Training Consortium to provide six trainings for first responders

- Result of competitive bidding process
- Trainings scheduled for summer 2014

VTP Deployment Goal: Promote better understanding of technology



REQUEST FOR PROPOSALS

Safety Training for First Responders to Emergencies Involving Natural Gas Vehicles And Refueling Stations

The Delaware Valley Regional Planning Commission (DVRPC) is seeking proposals from qualified training vendors to provide safety training for first responders to emergencies involving natural gas vehicles and refueling stations.

Submission Deadline: Friday, February 28, 2014 at 2:00 p.m.

Mail To John Griffies
Contracts Manager
Delaware Valley Regional Planning
Commission
190 N. Independence Mall West, 8th Floor
Philadelphia, PA 19106

ABOUT DVRPC

Serving the Greater Philadelphia, Camden, Trenton, Chester area for more than 40 years, the Delaware Valley Regional Planning Commission (DVRPC) is an interstate, intercounty, and intercity agency providing continuing, comprehensive, and coordinated planning to shape a vision for the future growth of the Delaware Valley region.

The region includes Bucks, Chester, Delaware, and Montgomery counties, as well as the City of Philadelphia, in Pennsylvania; and Burlington, Camden, Gloucester and Mercer counties in New Jersey.

DVRPC provides technical assistance and services; conducts high priority studies that respond to the requests and demands of member state and local governments; fosters cooperation among various constituents to forge a consensus on diverse regional issues; determines and meets the needs of the private sector; and practices public outreach efforts to promote two-way communication and public awareness of regional issues and the Commission.

COMMONWEALTH of PENNSYLVANIA: BUCKS COUNTY | CHESTER COUNTY | DELAWARE COUNTY | MONTGOMERY COUNTY | CITY of PHILADELPHIA | CITY of CHESTER
STATE of NEW JERSEY: BURLINGTON COUNTY | CAMDEN COUNTY | GLOUCESTER COUNTY | MERCER COUNTY | CITY of CAMDEN | CITY of TRENTON

Collaborations and Coordination with Project Partners



Project partners meet regularly to review project progress and coordinate project activities.

- Delaware Valley Regional Planning Commission
 - Prime recipient and lead partner. Plays coordination role
- Greater Philadelphia Clean Cities (GPCC) – Subrecipient
 - Key partner in all areas of project
- Pittsburgh Region Clean Cities (PRCC) – Subrecipient
 - Advisory role and deployment in western PA
- Pennsylvania Department of Environmental Protection (PA DEP)
 - Advisory role and coordination with Commonwealth programs
- PECO Energy Company and Philadelphia Gas Works
 - Technical advice and opportunity identification

Alternative Fuel Market Expansion Potential (1)



Remaining Project Activities

- Develop and deploy workshops for school officials
- Develop and deploy workshops for small private waste haulers
- Develop and deploy workshops for code enforcement officials
- Deploy trainings for public safety officials and first responders
- Develop and deploy trainings for maintenance personnel
- Lead strategic planning for regional alternative fuel vehicle education
- Carry out analysis of Pennsylvania Natural Gas Vehicle Grant Program
- Carry out analysis of Procurement Processes, and develop model procurement language
- Provide technical assistance throughout region
- Deliver final report

Alternative Fuel Market Expansion Potential (2)



Key Remaining Challenges and Barriers

- Provide easy and accurate tools for assessing maintenance facility conversion costs.
- Develop an easy approach to address vehicle replacement in small fleets (e.g., off-site fast fill).
- Address concerns of municipalities that use refuse vehicles for snow removal.
- Continue efforts to get multiple small fleets to aggregate to meet fueling station thresholds.
- Identify barriers to sharing fueling facilities between organizations (e.g., school district and municipality).
- Further understand issues and barriers for school buses.

Project's Contribution to Alternative Fuel Market Expansion

- Partners tell us that municipal and school fleet managers and other officials are now better educated and able to discuss CNG vehicles than before P3NGV

Project's Replicability

- The completed project will publish a set of outreach tools available to others
- The partnership between state DEP, NG utilities, Clean Cities programs, and MPO has been fruitful and serves as a foundation for ongoing work.

Summary



- The Pennsylvania Partnership to Promote Natural Gas Vehicles (P3NGV) continues to build regional capacity to promote natural gas vehicles in southeast Pennsylvania and statewide.
- P3NGV educates potential users of natural gas vehicles in the niche markets of refuse and school transportation through workshops, trainings, and materials.
- Key project deliverables have been accomplished
- Preparations continue for remaining project tasks.