

Southeast Propane AutoGas Development Program



VA Department of Mines, Minerals and Energy

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Project ID #ARRAVT065

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Timeline

- December 7, 2009
- December 6, 2013
- Less than 50% Complete

Partners

- Project Lead: DMME, Division of Energy
- Project Manager: Virginia Clean Cities at James Madison University
- Strategic Partners:
 - Alliance Autogas
 - Municipalities & private transportation companies
 - Clean Cities Coalitions
 - MSM Communications

Risks

Top Risks

- Sub-recipient T&C and Reporting Compliance
- Permitting/NEPA Approval Delay
- Conversion Capacity
- Service & Performance of Conversion System and Refueling Infrastructure

Budget

- Total project funding
 - \$8,605,100
 - \$10,449,184

Relevance

Project Objectives

- Convert 1,168 vehicles to propane autogas as a means to reduce U.S. dependence on imported petroleum, increase fuel economy and improve emissions.
- Install propane fueling infrastructure that supports project vehicle and general public refueling.
- Ensure that propane autogas vehicles do so to the greatest extent possible and collect quantitative and qualitative data to document the success of the program.
- Provide appropriate education and training for individuals associated with this project and in the larger community.
 - Creating immediate and sustainable interest in propane autogas for fleet applications from Maryland to Florida to Mississippi.
 - Changing the way fleet operations as well as the public view propane vehicles and alternative fuels in general.
 - Change the general perception of alternative fuel use from a difficult logistical challenge to a logical business decision with direct, positive economic impacts.
- Create and retain jobs in the areas of construction of the fueling facilities, the training and certification of the conversion centers, the procurement and distribution of the propane autogas and the administration of the integrated program of Alliance AutoGas.

Approach

Month/Year	Project Milestone
May-10	All Conversion Center NEPA EQs submitted and approved
	91% conversion equipment ordered
Jun-10	All Infrastructure NEPA EQs submitted and approved
	100% conversion centers certified
Jul-10	Full marketing plan complete
	50% web presence developed (not to include final online reporting)
Aug-10	100% sub-recipient agreements executed
Oct-10	25% vehicle deployment
	25% infrastructure development complete
Nov-10	50% vehicle deployment
	50% infrastructure development complete
	100% web presence developed including online reporting
Dec-10	75% vehicle deployment
	75% infrastructure development complete
Jan-11	91% vehicle deployment
	100% infrastructure development complete
Feb-11	100% completion of training activities for first responders and vehicle operators
	100% conversion equipment ordered
May-11	100% vehicle deployment
Sep-13	100% propane road shows complete
Nov-13	100% outreach/education activities completed

Technical Accomplishments and Progress

Month/Year	Project Milestone	Progress To-Date as of May 5, 2010
May-10	All Conversion Center NEPA EQs submitted and approved	All Conversion Center NEPA EQs submitted and approved
	91% conversion equipment ordered	Sub-recipient agreements signed with 6 of 26 sub-recipients
Jun-10	All Infrastructure NEPA EQs submitted and approved	Site preparation complete for 75% of infrastructure locations
	100% conversion centers certified	5 of 14 refueling facilities operational
Jul-10	Full marketing plan complete	7 of 9 conversion centers certified
	50% web presence developed (not to include final online reporting)	Marketing strategy complete and marketing plan development
Aug-10	100% sub-recipient agreements executed	Training, education and outreach strategy under development
Oct-10	25% vehicle deployment	Expecting to order 1,064 conversion kits in June 2010
	25% infrastructure development complete	
Nov-10	50% vehicle deployment	
	50% infrastructure development complete	
	100% web presence developed including online reporting	
Dec-10	75% vehicle deployment	
	75% infrastructure development complete	
Jan-11	91% vehicle deployment	
	100% infrastructure development complete	
Feb-11	100% completion of training activities for first responders and vehicle operators	
	100% conversion equipment ordered	
May-11	100% vehicle deployment	
Sep-13	100% propane road shows complete	
Nov-13	100% outreach/education activities completed	

Southeast Propane Autogas Development Program Org Chart



Partners and Collaborators



U. S. Department of Energy



Partners and Collaborators



REDTOPCAB.COM
SERVING ARLINGTON SINCE 1964



Partners and Collaborators



Planned Activities for 2010

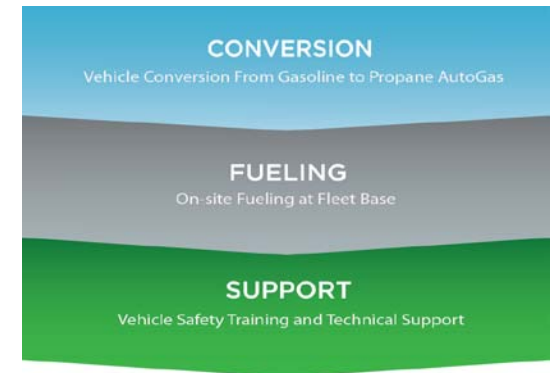
May - December 2010

- Build on Planning and Preparatory Work from Phase 1
- Complete Remaining NEPA Actions for Infrastructure
- Complete Vehicle Conversion Equipment Ordering
 - Target completion (91% by May 2010; 100% by Dec 2010)
- Complete Infrastructure Development December 2010
- Begin Scheduling Operator Training
- Complete Marketing Plan
- Launch Marketing and Outreach Campaign
- Launch Website and Online Reporting Site
- Begin Data Collection / Collaborate with Argonne on analysis



Summary

- This is the first comprehensive and coordinated southeast region propane autogas program in the nation and in our history
- Specific and comprehensive data will be collected on around 1,200 vehicles all being converting using the same system
- Team assembled brings unique ability to leverage program far beyond proposed objectives
- Estimated that 16 million gallons of gasoline will be displaced and over 16,000 tons of air pollutants averted over the 4 years of the project
- Estimated that around 600 jobs will be created or retained throughout the 4 years of the project
- We are well positioned to spend 70% of funds within one year



The Whole Package!

