

**State of Indiana/Greater IN Clean Cities
Alternative Fuels
Implementation Plan
Patrick Flynn/Kellie Walsh**

**Erin Russell–Story
Indiana Office of Energy Development
Thursday, May 12, 2011**

**Project ID #
ARRAVT050**

Timeline

- ▶ Project Began – December 31, 2009
- ▶ Project implementation – September 30, 2011
- ▶ Project Reporting – December 31, 2013
- ▶ Project To Date: 50% Percent complete – Contracts completed, 100% Vehicles ordered or retrofitted (50-65% completed or delivered), 120 of the 122 Stations completed

Budget

- Total project funding - \$25,451,870
- DOE share - \$10,125,000
 - Contractor share - \$15,326,870

Barriers

- ▶ Education of Rules and Regulations associated with funding
- ▶ Economy – Planning for an unknown future
- ▶ Kit Approval – Timing and Models
- ▶ User education and use procedures
- ▶ Davis-Bacon Monitoring
- ▶ Creation of a New Vehicle Bid Spec.

Partners

- Indiana Office of Energy Development
- Greater Indiana Clean Cities

Aiding Alternative Transportation

Relevance

- ▶ The goal of this project is to provide Clean Cities Partners with the ability to implement additional alternative fuels and technologies from across the Clean Cities Program portfolio: adding infrastructure to support vehicle deployment and allow for future partner development.
- ▶ The fleets involved span all of Indiana and includes both public and private sector fleets, from The Indiana Dept. of Transportation, to national partner, Sysco[®] Distribution. This application incorporates 365 vehicles and 122 infrastructure sites.
- ▶ Over 200 jobs are expected to be created.
- ▶ The project will displace over 1.2M gallons of petroleum annually.
- ▶ Training, marketing and outreach events will be administered statewide.

Project Plan

Approach

- ▶ Greater Indiana Clean Cities Members were asked to submit their project plans for consideration in an overall application
- ▶ Submitted projects were scored based upon:
 - overall strength and relevance of the project
 - job creation and retention
 - Fuel displacement
 - Partner match
- ▶ This project is unique in that it represents the majority of alternative fuels and brings together government, private and public institutions

Milestones

Approach

Month/Year	Milestone
December, 2010	Finalize All Sub-recipient agreements/contracts
June 2010	All NEPA Esq. Submitted and Approved
September, 2010 January, 2011	Vehicle Ordering 50% complete Vehicle Ordering 100% complete
October, 2010 August, 2011	Fuel infrastructure development 50% complete Fuel infrastructure development 100% complete
November 2010 August 2011	Vehicle Deployment 50% complete Vehicle Deployment 100% complete
July 2011	Completion of training activities
August 2011	Completion of outreach/education activities

Project Partners

Collaborations / Partnerships

Partner	Project
Indiana Office of Energy Development	Lead Applicant
Greater Indiana Clean Cities	Project Manager
Citizens Energy	Project Partner
City of Indianapolis	Project Partner
City of Fort Wayne	Project Partner
Indiana Department of Transportation	Project Partner
KAKCO	Project Partner
Lassus Brothers	Project Partner
Renewable Dairy Fuels	Project Partner
Sysco	Project Partner

Project Partners

Technical Accomplishments and Progress

▶ **INDOT**

- All 226 Bi-fuel, light duty trucks and vans have been retrofitted to AutoGas, using two types of certified systems
- All 115 fueling sites have been installed and are operational, all locations are accessible for other fleet use and that process is being piloted with ARRA partner City of Indianapolis DPW and Marion County Sheriff's Department.

▶ **Sysco**

- 54 Hybrid tractors and straight trucks have been ordered. 13 have been delivered.

Project Partners

Technical Accomplishments and Progress

▶ **City of Indianapolis**

- All 25 hybrid Ford Fusions have been ordered and delivered
- Bids for the Marion County Sheriff's 21 van propane retrofits and the 9 DPW dedicated new trucks has been posted and awarded

▶ **Lassus Brothers Oil**

- Two existing locations added E85 dispensers to their site; one new build included E85 in the overall project scope
- The City of Ft. Wayne's Police Fleet, of which over 50% are E85 compatible, worked with the fuel retailer to strategically site three public E85 stations so that their fleet can run exclusively on E85. This Partnership with Lassus Brothers Handy Dandy retails stores has allowed the fleet to drastically reduce its fueling costs while providing the public with more E85 locations in Ft. Wayne.

Project Partners

Technical Accomplishments and Progress

▶ **City of Ft. Wayne**

- Purchased 4 Ford Fusion Hybrids and 4 Ford Escape Hybrids
- One Hybrid Jetter Truck

▶ **Citizens Energy**

- Upgrade of existing CNG station to allow for fueling of 19 INDOT ARRA CNG dump/plow trucks
- Upgrade provides additional storage and compression capacity, allowing for faster fill-time and providing other area fleets opportunity

Project Partners

Technical Accomplishments and Progress

▶ **KAKCO, Inc.**

- Upgraded existing CNG station to support fueling of AT&T vehicles and KAKCO's existing CNG Fleet
- Unique in that this station utilizes all used compressor, dispensers and storage units for a 1/3 of the cost of a new CNG fueling site.

▶ **Renewable Dairy Fuels**

- Two new-build natural gas stations
- One bio-methane and one pipeline station
- Both public access
- Primary fleet 47, Class 8 tractor trailers hauling milk from Fair Oaks Dairy[®] in northern Indiana to southern Indiana and Northern Kentucky
- This project will be a roadmap for the dairy industry to use when implementing fueling to reduce their greenhouse gas footprint

Milestones to date

Technical Accomplishments and Progress

Date	Milestone
August 2009	Award Negotiations Announced
December 2009	Official Award
February 2010	Notified Partners of contract terms
March 2010	50% of NEPA – Vehicle and Infrastructure proposals submitted
March 2010	Project Partners Kick Off Meeting
April 2010	Finalized Scope Change Finalized Contract Templates
July 2010	Infrastructure Projects Begin
September 2010	Vehicle Retrofits Begin
October 2010	Final Partner Determined
March 2011	Vehicles Ordered or out for Bid
April 2011	Station Retrofits Completed 75% Vehicle Retrofits completed Received 50% of new vehicles

Project Timeline

Future Work

Date	Accomplishments
August, 2011	All vehicles delivered
September, 2011	All infrastructure complete
October, 2011	Promotional events coordinated to announce project completions
September 2010 – September, 2013	Upon project implementation, GICC will begin marketing and outreach efforts
September 2011	Quarterly reporting of operational and fuel displacement data begins and continues for two years.

The State of Indiana/GICC Alternative Fuels Implementation Plan

The Summary

- ▶ Due to the fact that projects span statewide and encompass numerous alternative fuels, communities will have greater access and awareness of alternative fuels
- ▶ The fuel savings within the state and city fleets will help budgets and therefore could help retain jobs with the resulting cost savings.
- ▶ The impact of the plan will displace over one million gallons of petroleum a year and provide a emission reduction benefit of over 15,000 tons.
- ▶ Job creation and retention will have a lasting impact on all communities within Indiana as well as SYSCO, and Daimler which are national companies.

The State of Indiana/GICC Alternative Fuels Implementation Plan

The Summary

- ▶ Total project - \$25,451,870
- ▶ Indiana's project will further the installation of propane, compressed natural gas, and E85 vehicle fuel stations as well as increase the use of hybrid vehicles.
- ▶ This project incorporates 365 vehicles, and allows for the addition of other propane vehicles as both light and medium duty vehicles are replaced with propane and CNG in the state fleet. Bids have been awarded for additional light duty propane vehicles. 122 infrastructure sites support these vehicles.
- ▶ Over 1.2M gallons of petroleum will be displaced annually.

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