

Chicago Area Alternative Fuels Deployment Project (CAAFDP)

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Department of Environment

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Project ID #
ARRAVT061



City of Chicago
Richard M. Daley
Mayor

Overview

Timeline

- Start: 01 / 2010
- End: 12 / 2013
- 5% Complete

Budget

- Total Funding: \$39,624,658
 - US Dept of Energy Funding: \$14,999,658
 - Cost Share: \$24,635,322

Potential Barriers & Risks

- Unforeseen Permitting Issues
- Construction Delays
- Availability of Equipment

Partners

- Gas Technology Institute
- Chicago Area Clean Cities Coalition
- Municipalities and Private Companies

CAAFDP Objectives

- Increase the number of alt fuel vehicles & hybrids (~599 vehicles)
 - 355 gasoline hybrids
 - 231 CNG vehicles
 - 11 HD Diesel Hybrids
 - 2 HD PHEV Diesels
- Develop fueling & charging infrastructure to support growth of alternative fuel use (~131 Stations)
 - 9 public access CNG & LPG locations
 - 8 shared access CNG stations
 - 10 shared access E-85 locations
 - 104 (46 public access) charging stations
- Combined Benefits of the Project
 - 448 metric tons/yr in reduced criteria pollutants
 - 7,647 metric tons/yr in reduced CO₂ (eq. to removing 1390 cars/yr)
 - 3.1 Million gallons of petroleum/yr displaced
 - 77 full time equivalent jobs

CAAFPD Approach

Month/Year	Milestone
April-10	Milestone: 100% of NEPA documentation for vehicle purchases and refueling infrastructure installations submitted for review
Dec -10	Milestone: 50% of vehicle orders complete Milestone: 50% of infrastructure equipment orders complete
Feb -11	Milestone: 50% of vehicles deployed Milestone: Groundbreaking on 50% of infrastructure installations complete
Aug-11	Milestone: 100% of vehicle orders complete Milestone: 100% of infrastructure equipment orders complete
Dec-11	Milestone: 100% of vehicle orders complete Milestone: 100% of infrastructure equipment orders complete
Feb-12	Milestone: Completion of Training Activities
Dec-13	Milestone: Completion of outreach/education activities
Dec-13	Milestone: Completion of reporting

CAAFPD Accomplishments

- Kickoff Meeting held with all Project Partners in April 2010
- NEPAs Submitted
 - 100% of OEM Vehicles
 - 100% of Vehicle Conversions
 - 100% of Infrastructure
- Detailed Project Plan Established for each Project Partner

CAAFPD Project Partners

- Chicago Carriage Cab
- Com Ed
- City of Chicago
- Doreen's Pizza
- DuPage County Division of Trans.
- DuPage County Forest Preserve
- Exel-Diageo
- Food Liner
- Groot Industries
- GTI
- I-GO
- Peoples Energy
- TAS/Clean Energy
- Village of Downers Grove
- Waste Management
- Zipcar

CAAFPD Projected Activities -FY10

- Finalize all Project Partner Agreements
- Receive NEPA Approval for all Vehicles and Infrastructure
- Order and Deploy 50% of all Vehicles
- Order and Deploy 50% of all Infrastructure
- Hold “Ribbon Cutting” Events at all Completed Fueling Sites
- Data Collection for Deployed Vehicles and Infrastructure

Summary

The CAAFPD Clean Cities Project Will:

- Increase the number of alternative fuel vehicles & hybrids (~599 vehicles)
- Develop fueling & charging infrastructure to support growth of alt fuel use (~133 Fueling and Charging Sites)
- Reduce amount of petroleum used by transportation sector (3.1 Million gallons of petroleum/yr displaced)
- Generate jobs (77 jobs created)
- Enhance regional air quality (448 metric tons/yr in reduced criteria pollutants)
- Reduce greenhouse gas emissions (7,647 metric tons/yr in reduced CO₂)