Wisconsin Clean Transportation Program

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Wisconsin Office of Energy Independence
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Program Overview

Timeline
• Start - January 2010
• Finish - December 2013
• 61% complete

Budget
• Total project funding
  – $15,000,000 – DOE share
  – $17,000,000 – recipient share (via vehicle and infrastructure purchases)
  – $14,478 – Stripper PVE Funds
• Funding Received/Matched by end of SFY11 - $4.0 million/$3.6 million
• Est. Funding Received/matched by end of SFY12 – $14.4 million/$16.9 million

Barriers
• Vehicle delivery and deployment
• Infrastructure completion
• Technology availability and performance

Partners
• SEO - Project Lead, Reporting
• Wisconsin Clean Cities (WCC-SEA) - Outreach
• Technical Consultant – Training, Technical Issues
• 36 Public and Private fleets – vehicles and infrastructure deployment
Objectives:

- Increasing use of alternative-fuel vehicles (AFVs) and advanced technology vehicles at public/private fleets settings to:
  - Reduce U.S. dependence on imported petroleum,
  - Increase fuel economy, and
  - Improve emissions, especially in non-attainment area.

- Installing infrastructure necessary to directly support AFVs or advanced-technology vehicles
  - Ensuring that vehicles capable of using alternative fuel do so to the greatest extent possible.
Objectives:

- Maximizing the preservation and creation of jobs:
  - investing in the technology and training necessary to continue to develop a strong alternative fuels industry

- Collect data on the success of the project through collection of vehicle, infrastructure and training information.

- Work with fleets and technology providers to address and resolve barriers, especially related to availability and performance.
Approach – Project Management

- Assign program management team members with specific responsibilities and participate in status updates.
- Finalize subcontract agreements with project partners, completed.
- Coordinate project schedule and coordination of all project-related activities with a vehicle and infrastructure deployment.
  - Initial deployment date for all projects 12/31/2011, date adjusted to 6/30/2012 due to vehicle technology availability/performance and infrastructure construction delays.
- Monitor current contract compliance and fleet project status (every two months) via site visits/conference calls with partners.
Overall program - completed vehicle NEPA EQ, received categorical exclusion for all types of vehicles purchased.

Fleet must receive approval of purchase before order is placed.

Assist fleets with actions necessary to enable vehicle purchase.
  - securing vehicle technology certifications, reviewing specifications, evaluating quotes

Purchase and take delivery of vehicles and apply of appropriate signage to vehicles.

Monitor performance of vehicles to ensure meeting goals of program - issues, take action with OEM and fleet to ensure timely and reasonable resolution.

75% of vehicles deployed by March 31, 2012
Approach – Infrastructure Deployment

- Completed Infrastructure NEPA EQ for 17 stations
- Work with fleets to complete actions necessary to begin construction and/or retrofit:
  - drafting specifications, issuing Requests for Quotes (RFQs),, evaluating quotes.
  - assist with Buy-American waivers/compliance
- Installation/Development of Fueling Infrastructure
  - Ensure Davis-Bacon compliance
- Application of appropriate signage to fueling infrastructure including all required.
- Monitor performance of infrastructure to ensure meeting goals of program.
- 95% of stations complete by March 31, 2012
• Identify AFV/HEV-specific training and outreach needs of vehicle operators, vehicle technicians, vehicle staff, refueling site supervisors, refueling site staff, and individuals who will use refueling infrastructure.

• Develop training and outreach plan and to address needs

• Perform ongoing identification of additional training/outreach needs and hold follow-up training, as necessary

• Monthly newsletter to all the fleet partners, brochures, website and case studies for each of the partners

• Working with Navistar to develop hybrid maintenance and operations training.

• Working with Madison Area Technical College to develop CNG fuel system maintenance training for state tech school students.
Technical Accomplishments

- **Funding:**
  - Sub-recipient Agreements signed with 100% project partners a total of $13.7 million obligated
  - $9.2 million spent*
  - $11.1 million matched
  - 61% complete

- **NEPA Documentation submitted for:**
  - 100% of vehicle purchases
  - 100% of vehicle conversions
  - 100% of infrastructure locations

* As of March 16, 2012
Technical Accomplishments

• Infrastructure:
  – 17 of 17 location approved
  – 12 of 17 sites complete – biodiesel, E85 and electric, and solar

• Vehicles:
  – 95% of vehicles ordered
  – 221 of 280 vehicles deployed (79%)

• Remaining Funding:
  – Approximately $359,000 available, from partner under spending, available for additional vehicles
  – Program Management team to evaluate best use of this funding based on:
    – Ease and readiness to deploy coupled with technology best addressing the objectives of reduced petroleum consumption and increased efficiency.
Technical Accomplishments

• Outreach/Training:
  – Announcement Events – Dane County (Apr 2011), City of Milwaukee (Sep 2011)
  – Distributed paper and electronic version of Marketing Materials and Resource Guide for all program partners
  – Promoted WCTP on two Clean Cities TV episodes for Transit Express and Milwaukee County
  – Promoted WCTP at 22 events between April and March 2012
  – Three training events held by hybrid system equipment manufacturers and vendors for heavy duty hybrid vehicles
Partnerships

• Project Management Team
  - SEO (primary recipient, state government) – responsible for contract negotiations and compliance, NEPA compliance, invoicing and reimbursement, reporting.
  - WCC-SEA (sub-recipient) – responsible for marketing and outreach efforts.
  - Technical Consultant (vendor) – responsible for vehicle and infrastructure technology deployment and performance monitoring, & training.
### Partnerships

Fleet partners (Sub recipients) – responsible for vehicle and infrastructure deployment

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<td>Dane County</td>
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<td>Jefferson County Sheriff’s Dept.</td>
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<td>WI DOA - Enterprise Services</td>
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<td>Kenosha County</td>
<td>Paper Transport (We Energies)</td>
<td>WI Department of Corrections</td>
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Future Work Activities

- Work With Partner Fleets to Complete Vehicle Ordering - Target completion March 2012
- Complete Infrastructure Equipment Installation - Target Completion March 2012
- Obligate any remaining funding
- Operator Training – Coordinating with vehicle manufacturers and local technical college for training by end of June 2012
- Marketing and Outreach – 9 events/opportunities to promote program are planned before June 30, 2012
- Ongoing ARRA and Programmatic Data Collection – working on providing an online data submission system through the state portal for participating fleets
Program management will continue to include technical coordinator and working with Wisconsin Clean Cities coalition to successfully administer this grant until December 31, 2013.

Program portfolio includes: Solar, CNG, Propane, E85, Biodiesel, Electric, Diesel & Gasoline Hybrid-Electric, Neighborhood Electric, and Plug-In Hybrid technologies.

Finalizing all 280 vehicles purchases and 17 infrastructure installations, potential for more vehicles.

100% of contracts in place, obligating 99% of funding available to fleets under this program.
Examples of Vehicles

City of Bayfield - NEV

Fall Festival with Mayor Larry MacDonald
City of Milwaukee - CNG Vehicles and Infrastructure

Station Groundbreaking (September 2011) – Ghassan Korban, Commissioner of Public Works & Mayor Tom Barrett
Dane County – CNG Vehicles and Infrastructure
Hribar Corporation – CNG
Lamers - HEV
Madison Gas & Electric – PHEV
Milwaukee County – PHEV

Pictured: Maintenance Employees
Paper Transport, Inc. – CNG

WI Clean Cities CNG Event (August 2011)
GoRiteway –
Propane and Solar Electric Stations
HEV, LPG and PHEV Vehicles

Open House November 8, 2011
Stoughton Utilities – PHEV

08/31/2010
Sun Power – Biodiesel Station and HEV

Grand Opening (May 2011)
UW-Madison – NEVs and HEV

Jim Bogan and Matthew Winchell – Fleet Managers
Bayfield County – CNG Station, CNG and HEV Vehicles

County Administrator - Mark Abeles Allison
Milwaukee Metro Sewerage District – CNG, HEV and NEV

Kathy Oestriech – Procurement Supervisor and Peter Cofforo – Procurement & Business Development Manager
Oconomowoc Transport – Plug-In Hybrid