2012 Merit Review: EPAct State and Alternative Fuel Provider Fleets

“Alternative Fuel Transportation Program”

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This presentation does not contain any proprietary, confidential, or otherwise restricted information
Outline

• Background on SFP Program
• Overview
• Objectives
• Milestones/Activities
• Approach
• Accomplishments/Progress/Results
• Future Work
• Summary
Background on Program

• Energy Policy Act (EPAct) of 1992 Required DOE to establish an Alternative Fuel Transportation Program
  • Primary purpose to promote Replacement/Alternative Fuels through the acquisition of light-duty AFVs

• Regulatory Process Initiated in 1994

• Mandatory Compliance Started in Model Year (MY) 1997

• Annually 300+ State and Fuel Provider (SFP) Entities Must Meet Annual Requirements
Overview

• Timeline
  – Ongoing Regulatory Compliance Program
  – Arising from EPAct 1992
  – With Subsequent Legislative Amendments
    • Energy Reauthorization Act of 1998 (ECRA)
    • EPAct 2005
    • Energy Independence and Security Act of 2007 (EISA)

• Budget
  – Funding in FY11 ($1.8M)
  – Funding in FY12 ($1.8 M)
Relevance: Objectives

- Petroleum Reduction and Replacement
- Implement the EPAct Alternative Fuels Transportation Program
  - Ensure Compliance with Regulatory Requirements for 300 + Fleets
  - Interpret/Analyze Legislative Requirements
  - Collect, Store, and Analyze Data Covered Fleets Submit to Comply with EPAct SFP Requirements
- Encourage/Empower Fleets to Go Beyond Standard Compliance Requirements to Reduce Petroleum Use
- Partnering with Clean Cities & Federal Fleet Programs
Milestones/Activities

• Annual Reporting (12/31/11)
• Exemptions and Exclusions
• Interpretative Rulings
• Documentation
• Rulemaking (8/12)
• Alternative Fuel Petitions
• Reports
• Outreach
Approach/Strategy

- Strong Focus on Ensuring Fleet Compliance
  - Flexible Options
  - Enhanced Outreach and Education
  - Working with Deficient Fleets

- Documentation
- Online Tools and Decision Support
- Regulation Modification/Update
Accomplishments/Progress/Results

• Regulatory Process
  – EISA Section 133 Proposed Rule
    • Reporting Requirements
    • Exemptions
    • Credits
    • Revision of Database
  – Draft Alternative Compliance Revisions
  – Review of the Current Regulatory Language
Accomplishments/Progress/Results

• Compliance/Enforcement
  – Standard Compliance 2011
  – Alternative Compliance 2011
  – Identified Additional Covered Fleets
  – Site Visits
  – Enforcement Plan
Accomplishments/Progress/Results

• Administration
  – Addressed Policy Positions
  – Addressed Interpretive Rulings
  – Developed Program’s Document Disposition Schedule
  – Standard Operating Procedures Documentation
  – Appeals
  – Upgrading Program Database
Accomplishments/Progress/Results

• Outreach & Assistance
  – Developed Online Exemption Request Tool
  – Enhanced Public Petroleum REduction Planning (PREP) Tool
  – Continued Developing FleetAtlas Tool
  – EPAct Stakeholder & Fuel Retailer Workshops
  – Developing Workshop Toolkit and Training Course
Accomplishments/Progress/Results

• Deployment of Various Vehicle Technologies Via:
  • Standard Compliance
  • Alternative Compliance
• 40-50 million Gasoline Gallon Equivalents (GGE)
• 100% Compliance
SFP Accomplishments: Data

NOTE: MY2011 data not yet complete
SFP Accomplishments: Data

Light-Duty AFV Acquisitions

- States
- Alternative Fuel Providers
- Total Annual Light-Duty Acquisitions

NOTE: MY2011 data not yet complete
SFP Accomplishments: Data

*Includes all gallons reported

Annual Biodiesel (B100) Use and Biodiesel Credits Earned

- States
- Alternative Fuel Providers
- Total Annual Biodiesel Credits Earned

**NOTE:** MY2011 data not yet complete
SFP Accomplishments: Data

Annual ExemptionsRequested and Granted Compared to Total AFV-Acquisition Requirement

- Exemptions Requested
- Exemptions Granted
- Total Annual AFV-Acquisition Requirement

NOTE: MY2011 data not yet complete
SFP Accomplishments: Data

Annual Credits Earned and Used

- Bankable Credits Earned
- Banked Credits Used
- Cumulative Net Credits (1992–2010)

NOTE: MY2011 data not yet complete
MY2010 Results of Alternative Compliance Resulted nearly 3,414,312 GGE of petroleum reduced, from just 12 fleets (compared with 2,427,494 GGE for MY 2009)

NOTE: MY2011 data not yet complete
Collaboration and Coordination

- EPAct Workshops
  - Clean Cities and Federal Fleet Programs
- Clean Cities Program
  - Incentives and Laws
  - Clean Cities Coordinator Training
  - Clean Cities Annual Retreat
- Alternative Fuel Petitions
  - Involves Reviews Cutting Across Various Programs
- Coordination with Fleets and Other Stakeholders to Facilitate Infrastructure Deployment
  - DOE Collaborating with Industry and Other Labs (Rulemaking Comments, Hearings, Conferences, Other Outreach)
Future Work

- Additional Site Visits
- Regional EPAct Workshops
- Revision of Alternative Compliance Program
- Develop Online Compliance Tools
- Analyze Other Existing Fleets for Potential Coverage
- Issue EISA Section 133 Final Rule
- Develop Tool Kits for Best Practices
- GIS Analysis for Fleet Vehicles and Re-Fueling Infrastructure
- Documentation of Processes and Decisions
- Make Available Online Reporting for Additional Compliance Options
Summary

- Objectives
  - Petroleum Reduction and Replacement
  - Deploy and Encourage Technology Acquisitions
  - Collect, Store, and Analyze Data
  - Encourage/Empower Fleets to Go Beyond Standard Compliance Requirements
  - Ensuring Compliance with Statutory Requirements
Summary (Cont’d)

• Approach
  – Careful Development of New Requirements
  – Develop Flexible Approaches
  – Extensive Outreach and Technical Assistance
  – Analysis & Interpretive Rulings
  – Documentation
  – Online Tools and Decision Support
Summary (Cont’d)

• Results
  – Compliance Rate of 100%
  – Deployment of Various Vehicle Technologies Via Standard Compliance & Alternative Compliance
  – 40-50 million GGE of Petroleum Replacement Per Year (Conservative Estimate)

• Future Work
  – Enhancing Flexibility
  – Streamlining Program
  – Continue Documenting Decisions and Processes
  – Outreach
  – Capturing Additional Covered Fleets