

Merit Review: EPAct State and Alternative Fuel Provider Fleets

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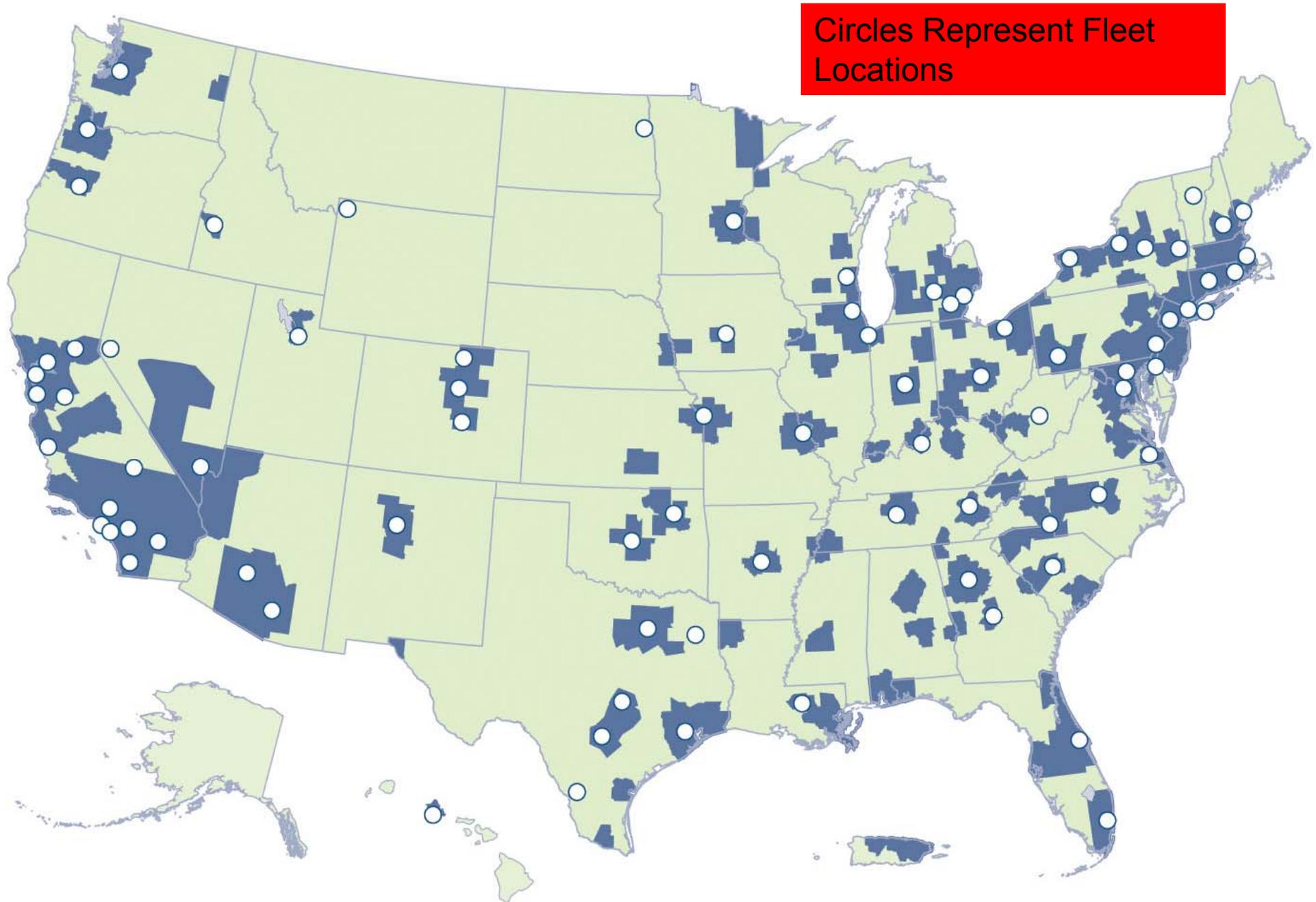
PROJECT ID #
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- Background on SFP Program
- Overview
- Objectives
- Milestones/Activities
- Approach
- Accomplishments/Progress/Results
- Future Work
- Summary

- Energy Policy Act (EPAAct) of 1992 Required DOE to Establish Alternative Fuel Transportation Program
- Promotes AFV Acquisition/Petroleum Replacement
- Began Model Year (MY) 1997
- Annually 300+ State and Fuel Provider (SFP) Entities Must Meet Annual Requirements

SFP Fleets

2009 DOE Merit Review
State and Alternative
Fuel Provider Fleets



- Timeline
 - Ongoing Regulatory Compliance Program
 - Arising from EPA Act 1992
 - With Subsequent Legislative Amendments
 - Energy Reauthorization Act of 1998 (ECRA)
 - EPA Act 2005
 - Energy Independence and Security Act of 2007 (EISA)
- Budget
 - Funding in FY08 (\$1.3 M) and FY09 (\$1.2M)
 - Funding request for FY10 – (\$1.3 M)

- Barriers
 - Regulatory Limitations
 - Fleets Need to Actively Manage Compliance
 - Lack of Re-Fueling Infrastructure
- Partners
 - Predominantly “Stakeholders” Rather than “Partners”
 - Strong Support from NREL to Help Implement Regulatory Requirements and Provide Tools and Outreach
 - Coordination with Clean Cities Program and Federal Fleets Program

- Petroleum Reduction and Replacement
- Implement the EPO Act 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 EPO Act SFP Requirements
- Encourage/Empower Fleets to Go Beyond Standard Compliance Requirements to Reduce Petroleum Use
- Partnering with Clean Cities & Federal Fleet

- Annual Reporting
- Exemptions and Exclusions
- Interpretative Rulings
- Documentation
- Rulemaking
- Alternative Fuel Petitions
- Reports
- Outreach

- Strong Focus on Ensuring Fleet Compliance
 - Flexible Options
 - Enhanced Outreach and Education
 - Working with Deficient Fleets
- Careful Development of New Requirements
- Develop Flexible Approaches
- Regulatory Fixes

- Successful implementation of standard compliance regulations supports:
 - Limited demand for Infrastructure
 - AFV acquisitions
 - Compliance Rate Exceeds 95%
- Successful implementation of alternative compliance regulations helps:
 - Create Demand
 - Directly and Immediately Reduce Petroleum Use

Approach (cont'd)

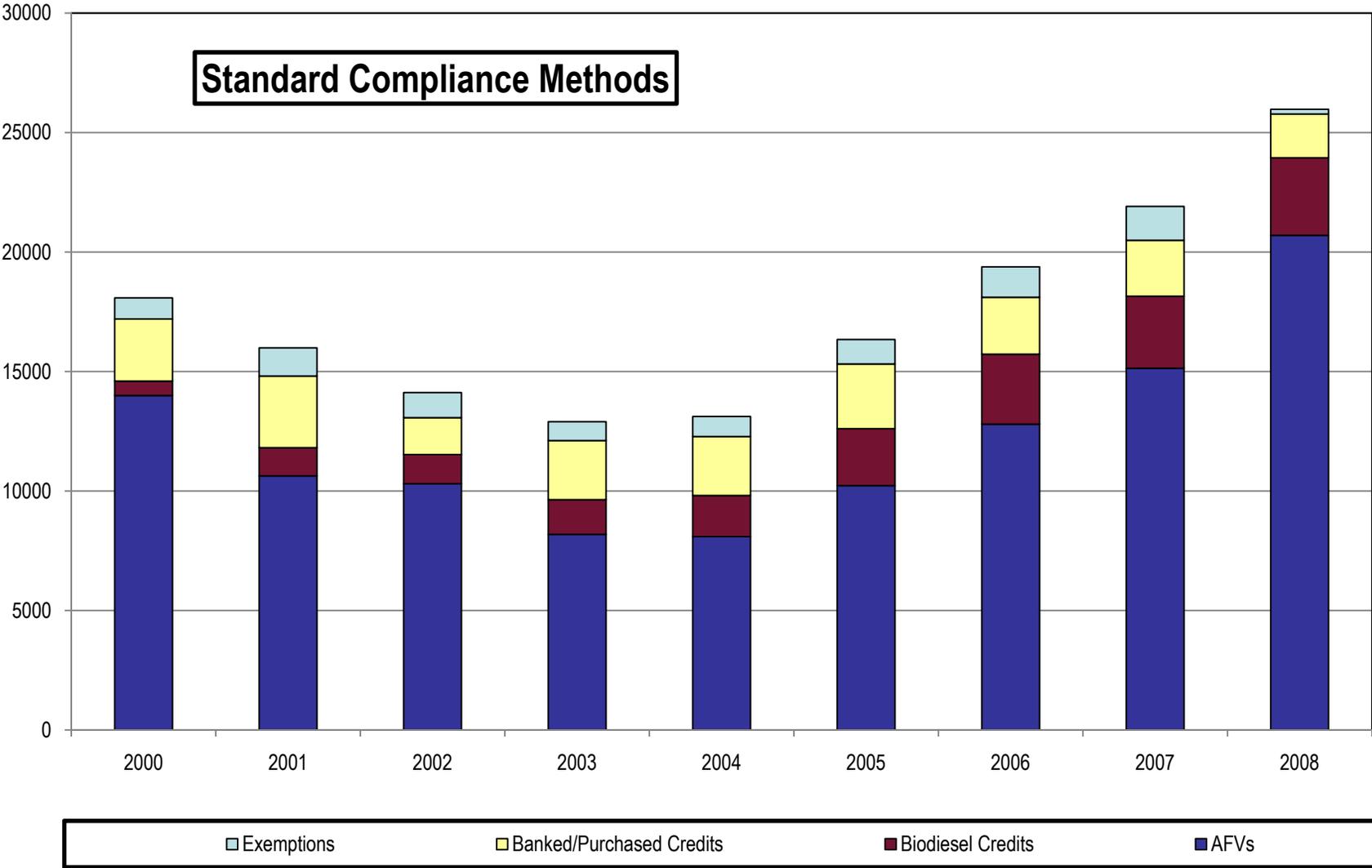
- Outreach and Technical Assistance
- Analysis
- Interpretive Rulings
- Documentation
- Online Tools and Decision Support

- Finalized Private and Local Government Fleet Determination (March 08)
- Finalized EPA Act Section 704 Report to Congress
- Completed Review and Decision on Alternative Fuel Petition for Acetylene
- Continued Developing EISA Section 133 Proposed Rule
- Completed First Full Year of Alternative Compliance Option
- Reviewed/Approved Second Set of Alternative Compliance Plans – 11 for MY2009
- Addressed Policy Positions

- Developed Public Petroleum REduction Planning (PREP) Tool
- Fleet Site Visits
- Developing Regional Workshops
- Updated E85 Toolkit on AFDC website
- New EPAAct Website
- Documentation

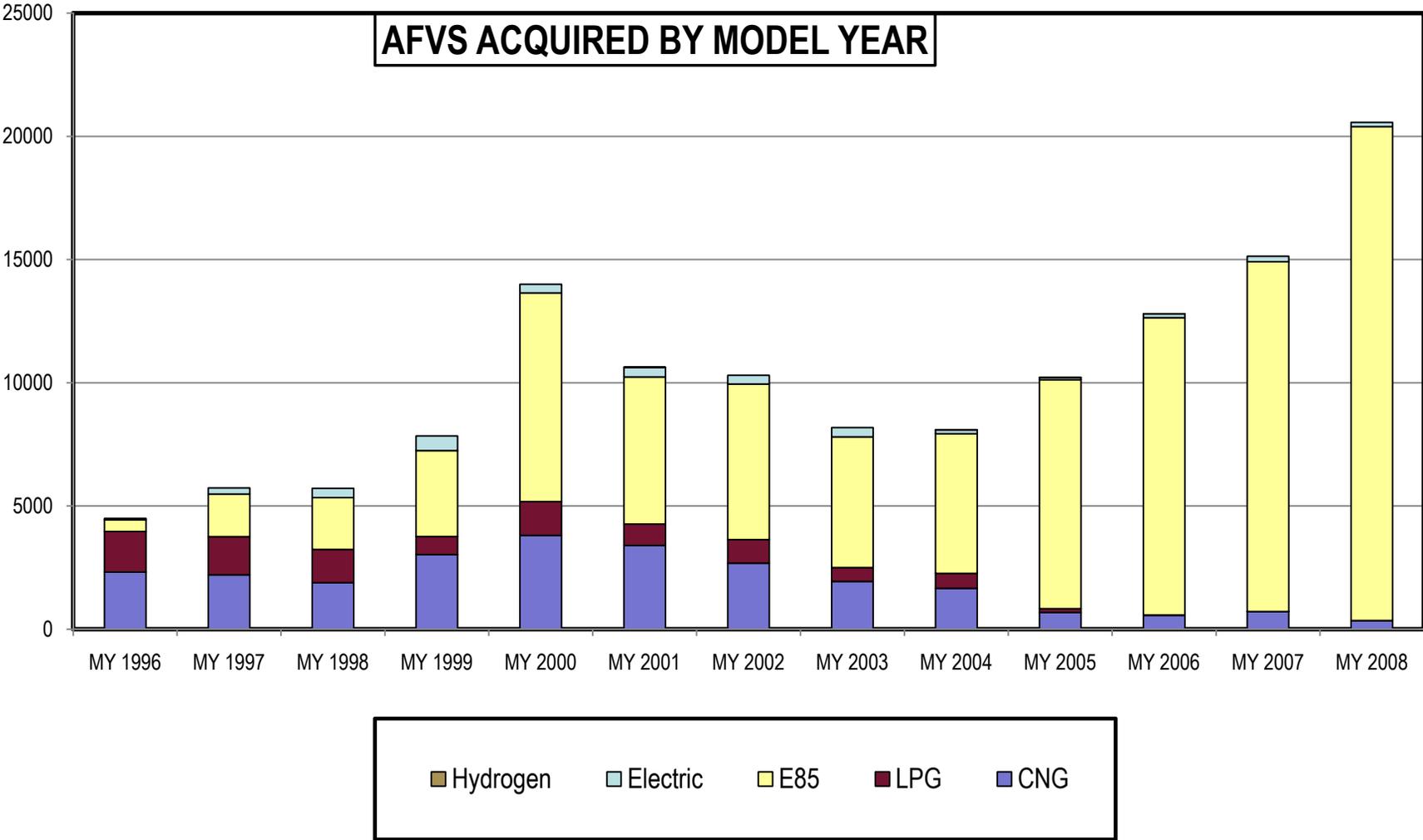
- Deployment Barriers Are Addressed by Regulatory Flexibility
- Deployment of Various Vehicle Technologies Via:
 - Standard Compliance
 - Alternative Compliance
- 40-50 million Gasoline Gallon Equivalents (GGE)
- Virtually 100% Compliance

SFP Accomplishments: Data



NOTE: MY2008 data not yet complete

SFP Accomplishments: Data

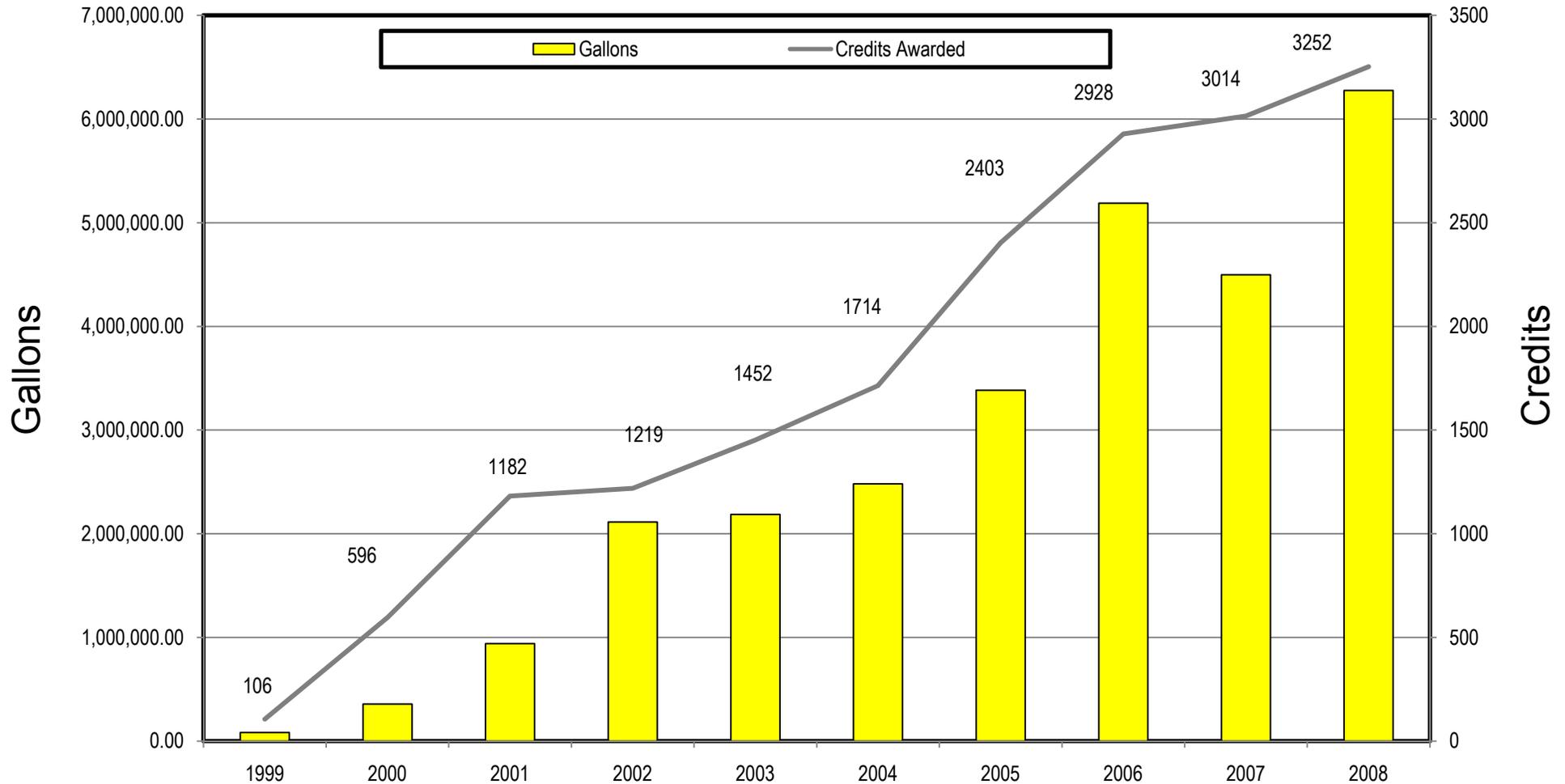


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SFP Accomplishments: Data

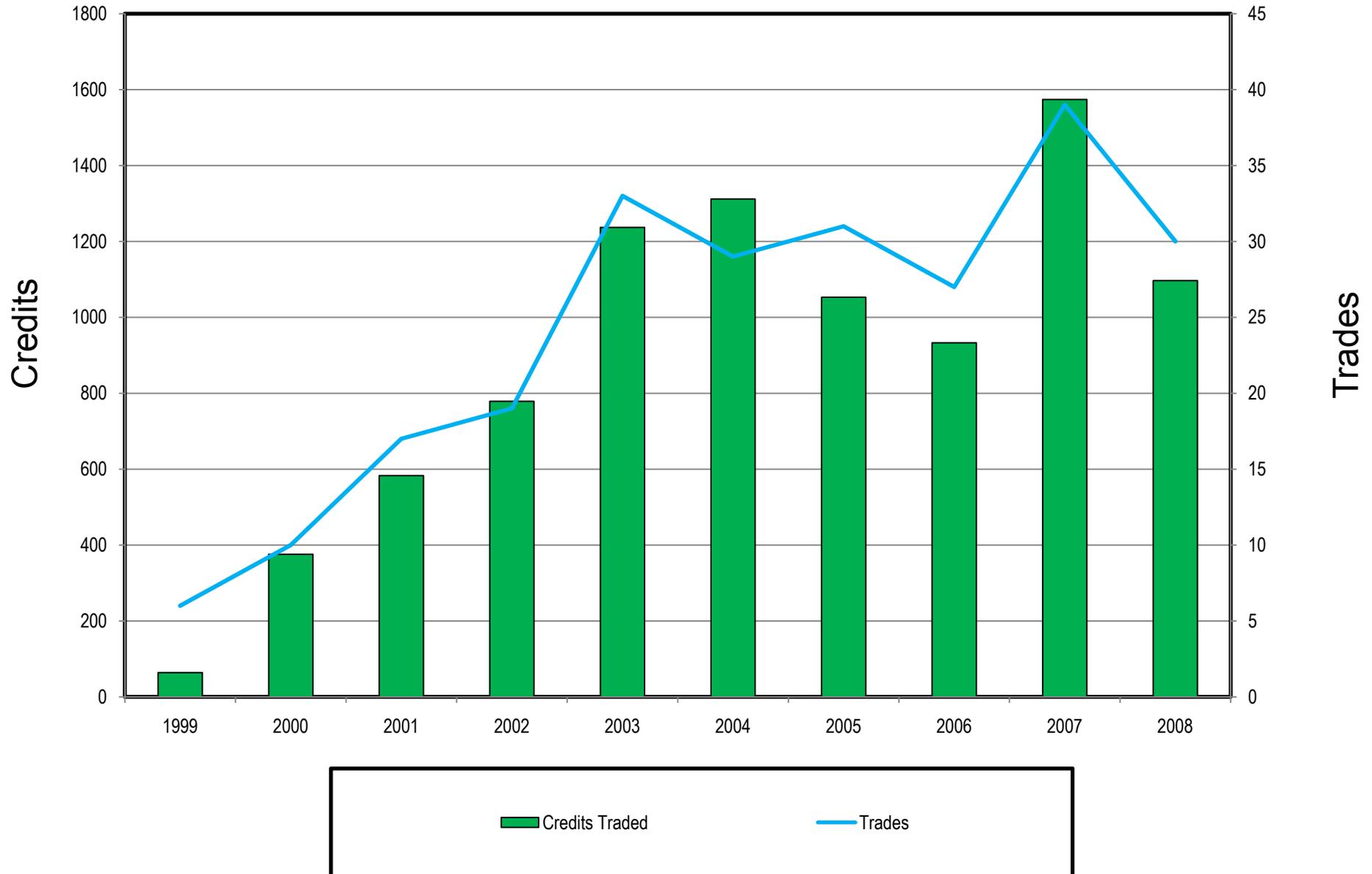
Biodiesel Fuel Use and Credits

*Includes all gallons reported



NOTE: MY2008 data not yet complete

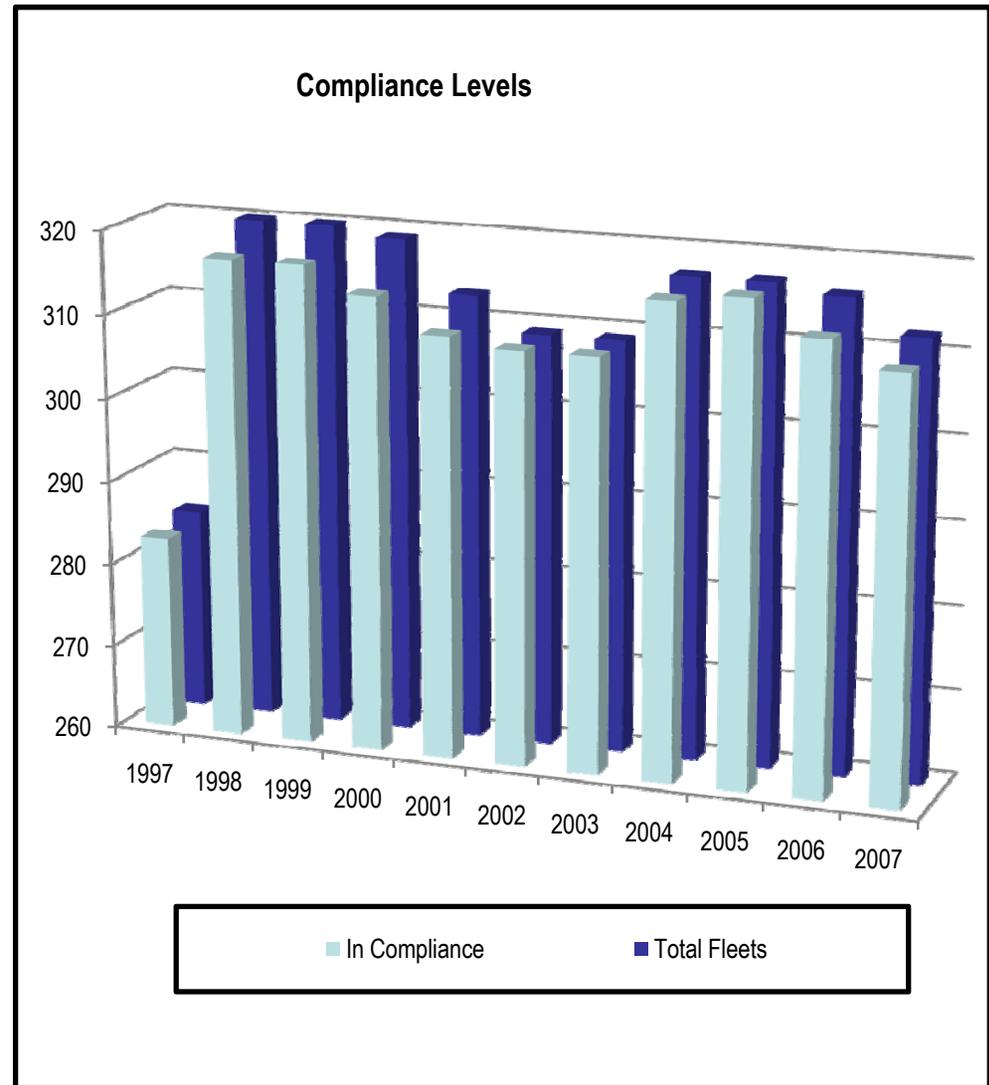
SFP Accomplishments: Data



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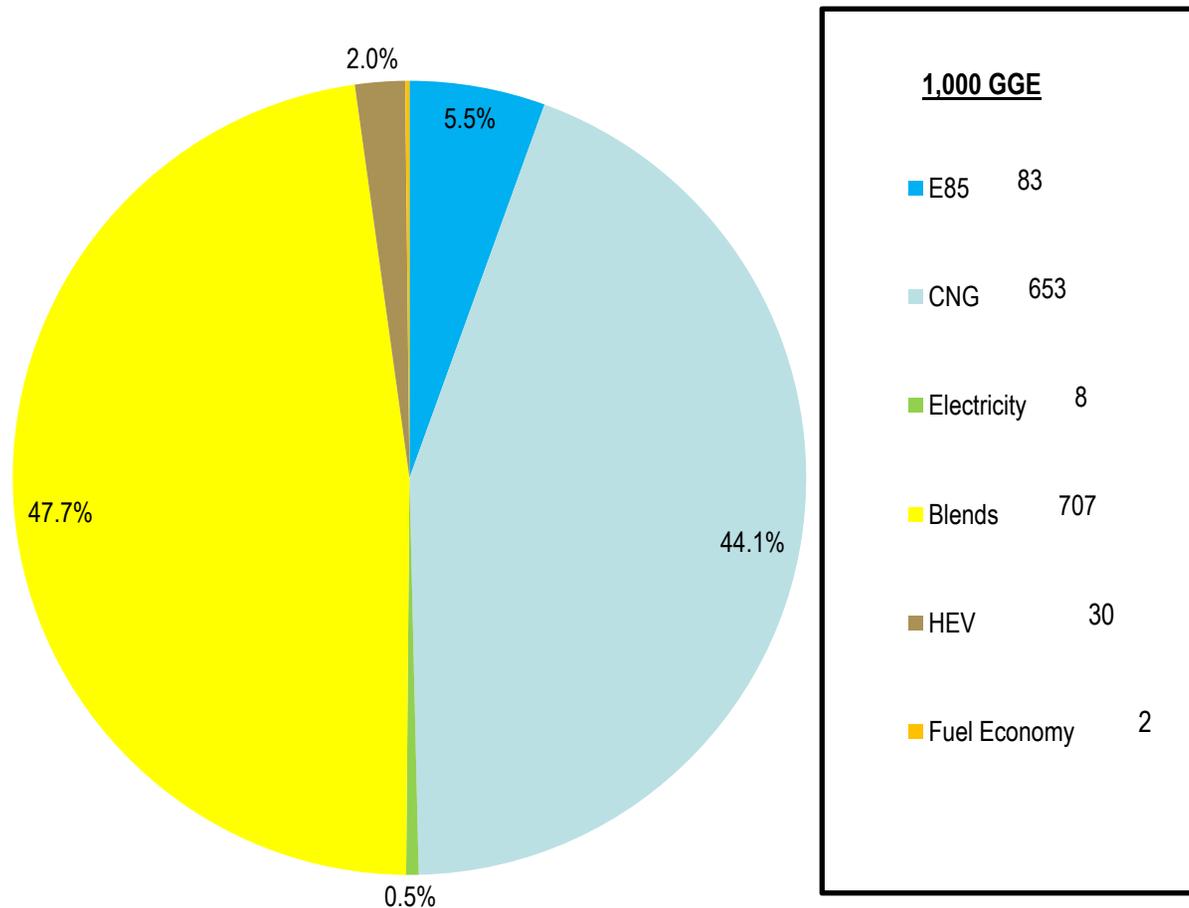
SFP Accomplishments: Data

- High Compliance Level (Virtually 100%)
- Early Technology Adopters
- Fleets Installing Infrastructure
- DOE Collaborating with Industry and Other Labs (Rulemaking Comments, Hearings, Conferences, Other Outreach)



Note: Compliance Data for MY2008 not yet complete, so not included

SFP Accomplishments: Data



First Year Results of Alternative Compliance Resulted in a total of nearly 1,482,528 GGE of petroleum reduced, from just 8 fleets

- Additional Site Visits
- Regional Workshops
- Revision of Alternative Compliance Program
- Develop Framework for EPC Act Section 509 Report to Congress
- Develop Online Compliance Tools
- Analyze Other Existing Fleets for Potential Coverage
- Issue EISA Section 133 NOPR
- Develop Tool Kits for Best Practices
- GIS Analysis for Fleet Vehicles and Re-Fueling Infrastructure
- Section 509 Report
- Documentation of Processes and Decisions

- 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

- 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 95%
 - 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
 - 509 Report