



HUD FLEET ALTERNATIVE FUEL REPORT FISCAL YEAR 2015



February 2016

Executive Summary

The U.S. Department of Housing and Urban Development (HUD) hereby submits its fiscal year (FY) 2015 annual report on the Agency's efforts in meeting the fleet requirements of Title III of the Energy Policy Act (EPA) of 1992, as amended by EPACT of 2005, and Executive Order (E.O.) 13423. Section 705 of the EPA of 2005 (Public Law 109-58, enacted August 8, 2005), which amended the due date of this report to February 15 of every year.

Under Title III of EPACT 1992, 75% of a Federal fleet's non-exempt light duty vehicle (LDV) acquisitions in U.S. metropolitan areas must be alternative fuel vehicles (AFVs). Agencies receive credit for each light, medium, or heavy-duty AFV they acquire each year and for biodiesel (typically used in B20, a blend of 20% biodiesel, 80% petroleum diesel) used in fleet vehicles. E.O. 13423 requires Federal agencies to increase alternative fuel consumption by 10% annually through FY 2015 relative to a FY 2005 baseline. The E.O. also sets goals for non-exempt Federal agencies to reduce petroleum consumption by 2% annually through FY 2020 relative to a FY 2005 baseline. Table 1 summarizes the Agency's performance in meeting these requirements.

Table 1. HUD FY 2015 Performance in Meeting EPA of 1992 and E.O. 13423 Requirements

| Driver | Performance Measure | FY 2015 Goal/Requirement | HUD Performance in 2015 |
|--------------------|------------------------------|---|--|
| EPA of 1992 | AFV Acquisitions | 75% of Federal Fleet non-exempt acquisitions are AFV. | Acquired 64 AFVs; achieved 28 credits total, or 100% compliant on non-exempt acquisitions. |
| E.O. 13423 | Petroleum Consumption | Reduce petroleum consumption by 2% annually relative to a FY 2005 baseline. | Consumed 49,115 GGE which is a 76% reduction from the baseline (197,574 GGE). 3% increase from FY 14 consumption (47,474 GGE). |
| | Alternative Fuel Consumption | Increase AF by 10% relative to FY 2005 baseline. | Consumed 1,083 GGE which is a >100 % than the target (134 GGE). 50% increase from FY 13 consumption (535 GGE) |

Legislative and Executive Order Requirements

EPAct of 1992 requires that 75% of all non-exempt vehicles acquired by Federal fleets in FY 1999 and thereafter be AFVs. The EPAct requirement applies to agency fleets that meet the following criteria:

- Consist of 20 or more light-duty vehicles (vehicles less than or equal to 8,500 pounds gross vehicle weight rating).
- Centrally fueled or capable of being centrally fueled.
- Primarily operated in Metropolitan Statistical Areas (MSAs) or Consolidated Metropolitan Statistical Area (CMSAs) with populations of more than 250,000 according to 1980 census.

Emergency response and law enforcement vehicles that meet certain utilization criteria are exempt from this requirement.

EO 13423 requires each Federal agency that operates 20 or more vehicles within the United States to reduce its annual petroleum consumption by at least 2% each year through FY 2015, compared to FY 2005 consumption levels. Fleets may achieve the petroleum reductions in a number of ways, including AFV acquisitions, increased alternative fuel use in flexible-fuel AFVs, improved fuel efficiency of non-AFV acquisitions, reductions in non-AFV fleet sizes and vehicle miles traveled, and improvements in overall fleet operating efficiencies.

EO 13423 also requires subject Federal fleets increase annual consumption of alternative fuels by 10% annually relative to the previous year's alternative fuel usage target.

The Energy Conservation Reauthorization Act of 1998 amended EPAct to allow one AFV acquisition credit for every 450 gallons of pure biodiesel fuel or 2,250 gallons of B-20, a blend of 20% biodiesel with 80% petroleum diesel. These biodiesel credits may fulfill up to 50% of an agency's EPAct acquisition requirements and do not carry over into subsequent years.

Section 701 of EPAct 2005 requires that subject fleets of each Federal agency use alternative fuel at all times in flexible-fuel and dedicated AFVs. Agencies can request waivers from the Secretary of Energy, on an individual vehicle basis, if alternative fuel for that AFV is unavailable or unreasonably expensive based on specific criteria.

Section 310(b) of EPAct requires the head of each Federal agency to prepare and submit an annual report to Congress outlining the agency's AFV acquisitions and future acquisition plans, beginning in FY 1999. Federal agencies submit compliance data using the web-based Federal Automotive Statistical Tool (FAST) database. Acquisition data submitted by HUD is included in this report as Appendix A, B, C, and D.

HUD's FY 2015 Fleet Compliance with EPCa 1992 and EPCa of 2005

AFV acquisitions for the Agency fleet from 2015-2018 and HUD's EPCa of 2005 compliance percentage for AFV acquisitions are displayed in Appendices A-D. HUD acquired 64 light duty vehicles which were all exempted vehicles. HUD received 28 credits and HUD is 100% compliant, according to EPCa to 1992.

HUD's FY 2015 Compliance with EO 13423

Table 3 summarizes HUD's performance toward the EO 13423 petroleum reduction goal. In FY 2015, HUD was required to reduce petroleum consumption by 10% relative to a FY 2005 consumption baseline of 197,574 GGE consumed and had an 75% decrease (47,474 GGE consumed) below FY 2005 baseline levels. HUD's actual reduction in petroleum consumption from target petroleum consumption was 69%.

Table 3- Petroleum Consumption for FY 2015

| Petroleum Consumption | Totals |
|--------------------------------------|--|
| FY 2005 Baseline | 197,574 |
| FY 2015 Target Petroleum | 158,059 |
| FY 2015 Actual Petroleum Consumption | 47,474 (75% reduction from baseline) (69% reduction from target) |
| Compliant | YES |

Table 4 summarizes HUD's performance toward the EO 13423 alternative fuel goals. In FY 2015, HUD had consumed AFV 1,083 GGE of alternative fuel, which is over 100% above the FY 2005 baseline and FY 2015 target petroleum alternative fuel consumption.

Table 4- Alternative Fuel Consumption for FY 2015

| Alternative Fuel Consumption | Totals |
|---|--|
| FY 2005 Baseline | 57 |
| FY 2015 Target Alternative Fuel | 147 |
| FY 2015 Actual Alternative Fuel Consumption | 1083 (>100% increase from baseline) (>100% increase from target) |
| Compliant | YES |

HUD's Strategy to Meet Fleet Requirements (EPA Act of 2005, EO 13423 and EO 13514)

HUD has continued to reduce its fleet and achieve optimal fleet size. HUD reported the procurement of 349 vehicles in FY 2015, in comparison to FY 2014's total of 365 which resulted in an overall 16% reduction. We have acquired 38 Alternative Fuel Vehicles (AFV), which is 59% of our total acquisitions (64 vehicles). We were 100% compliant in meeting our EPA Act 2005 requirement. In accordance with GSA Bulletin B-30, HUD will update the vehicle allocation methodology (VAM) in an effort to meet the requirements of optimizing the fleet, and increase AFV acquisitions. A new survey in February 2016 will be sent out to the field representatives, and a new assessment will be conducted of the fleet based on the information received from the field.

HUD's petroleum consumption had a slight increase of 3% in comparison to FY 2014's total. HUD's alternative fuel usage in FY 2014 was 535 GGE, so the FY 2015 usage was double this figure. HUD continues in its efforts to meet EO 13423 guidelines to reduce petroleum consumption and increase alternative fuel. HUD explored the possibilities of car sharing but found that this was not financially advantageous. The Agency Fleet Manager will start to disseminate fleet newsletters called "Fleet Quarterly" that will summarize newsworthy fleet topics, including fleet requirements, tips for optimizing fleet management, and other fleet issues.

HUD will strive to reduce petroleum consumption, optimize fleet efficiency and increase alternative fuel.

APPENDIX A

Federal Automotive Statistical Tool

2015 AFV Report: Actual Data (FY2015)

| 1. Actual Light-Duty Vehicle Acquisitions and Exemptions | | | | | | |
|--|--------------|----|-------|--------|-----------|-------|
| | Acquisitions | | | Leased | Purchased | Total |
| | Fuel | LE | Lease | | | |
| Total Light-Duty Vehicle Acquisitions | | | | 64 | 0 | 64 |
| Fleet Exemptions: Fleet Size | | | | 0 | 0 | 0 |
| Fleet Exemptions: Foreign | | | | 0 | 0 | 0 |
| Fleet Exemptions: Geographic | | | | 0 | 0 | 0 |
| Fleet Exemptions: Non-MSA Operation | | | | 0 | 0 | 0 |
| Vehicle Exemptions: LE Vehicle | | | | 19 | 0 | 19 |
| Vehicle Exemptions: Non-covered Vehicle | | | | 0 | 0 | 0 |
| Vehicle Exemptions: Non-MSA Operation | | | | 45 | 0 | 45 |
| Total EPCovered Vehicles | | | | 0 | 0 | 0 |

| 2. Actual Alternative Fuel Vehicle Acquisition Detail | | | | | | |
|---|---------------------|-----|-------|--------------|-------|-----------|
| Vehicle Type | Fuel | LE | Lease | Acquisitions | | EPCredits |
| | | | | Purchase | Total | |
| Light Duty Vehicles | | | | | | |
| Sedan/St Wgn Compact | E85 FF | No | 14 | 0 | 14 | 14 |
| Sedan/ST Wgn Compact | E85 FF | Yes | 4 | 0 | 4 | 0 |
| Sedan/St Wgn Compact | GAS HY ³ | No | 2 | 0 | 2 | 2 |
| Sedan/St Wgn Compact | GAS HY ³ | Yes | 1 | 0 | 1 | 0 |
| Sedan/St Wgn Compact | GAS PH | No | 1 | 0 | 1 | 1 |
| Sedan/St Wgn Midsize | E85 FF | No | 4 | 0 | 4 | 0 |
| Sedan/St Wgn Midsize | E85 FF | Yes | 3 | 0 | 3 | 0 |
| Sedan/St Wgn Subcompact | E85 FF | No | 1 | 0 | 1 | 1 |
| Sedan/St Wgn Subcompact | GAS HY ³ | No | 3 | 0 | 3 | 3 |
| LD Minivan 4x2 (Passenger) | E85 FF | No | 2 | 0 | 2 | 2 |
| LD SUV 4 x 4 | E 85 FF | No | 1 | 0 | 1 | 1 |
| LD SUV 4x4 | E85 FF | Yes | 2 | 0 | 2 | 1 |
| Totals: | | | 38 | 0 | 38 | 28 |

| 3. Actual EPCovered Acquisition Credits Summary | |
|---|----|
| Base AFV Acquisition Credits: | 10 |
| Zero Emission Vehicle (ZEV) Credits: | 0 |
| Dedicated Light Duty AFV Credits: | 0 |
| Biodiesel Fuel Usage Credits: ⁴ | 0 |
| Total EPCovered Credits: | 28 |
| Overall EPCovered Compliance Percentage: | 0% |

Appendix B

Federal Automotive Statistical Tool

2015 AFV Report: Planned Data (FY2016)

1. Planned Light-Duty Vehicle Acquisitions and Exemptions

| | Acquisitions | | |
|---|--------------|-----------|-------|
| | Leased | Purchased | Total |
| Total Light-Duty Vehicle Acquisitions | 59 | 0 | 59 |
| Fleet Exemptions: Fleet Size | 0 | 0 | 0 |
| Fleet Exemptions: Foreign | 0 | 0 | 0 |
| Fleet Exemptions: Geographic | 0 | 0 | 0 |
| Fleet Exemptions: Non-MSA Operation | 0 | 0 | 0 |
| Vehicle Exemptions: LE Vehicle | 32 | 0 | 32 |
| Vehicle Exemptions: Non-covered Vehicle | 0 | 0 | 0 |
| Vehicle Exemptions: Non-MSA Operation | 25 | 0 | 25 |
| Total EPCo-Covered Vehicles | 2 | 0 | 2 |

2. Planned Alternative Fuel Vehicle Acquisition Detail

| Vehicle Type | Fuel | LE | Lease | Acquisitions | | EPAct |
|----------------------------|---------------------|-----|-------|--------------|-------|---------|
| | | | | Purchase | Total | Credits |
| Light Duty Vehicles | | | | | | |
| Sedan/St Wgn Compact | E85 FF | No | 4 | 0 | 4 | 4 |
| Sedan/St Wgn Compact | E85 FF | Yes | 12 | 0 | 12 | 0 |
| Sedan/St Wgn Compact | GAS HY ³ | No | 2 | 0 | 2 | 2 |
| Sedan/St Wgn Compact | GAS HY ³ | Yes | 7 | 0 | 7 | 0 |
| Sedan/St Wgn Midsize | E85 FF | No | 4 | 0 | 4 | 4 |
| Sedan/St Wgn Midsize | E85 FF | Yes | 1 | 0 | 1 | 1 |
| LD Minivan 4x2 (Passenger) | E85 FF | No | 2 | 0 | 2 | 2 |
| LD Minivan 4x2 (Passenger) | E85 FF | Yes | 1 | 0 | 1 | 0 |
| LD SUV 4x2 | E85 FF | No | 11 | 0 | 11 | 11 |
| LD SUV 4x2 | E85 FF | Yes | 1 | 0 | 1 | 1 |
| LD SUV 4 x4 | E85 FF | Yes | 2 | 0 | 2 | 2 |
| LD SUV 4 x4 | GAS HY ³ | Yes | 4 | 0 | 4 | 0 |
| Totals: | | | 51 | 0 | 51 | 23 |

3. Planned EPCo Acquisition Credits Summary

| | |
|--|---------|
| Base AFV Acquisition Credits: | 23 |
| Zero Emission Vehicle (ZEV) Credits: | 0 |
| Dedicated Light Duty AFV Credits: | 0 |
| Dedicated Medium Duty AFV Credits: | 0 |
| Biodiesel Fuel Usage Credits: ⁴ | 0 |
| Total EPCo Credits: | 23 |
| Overall EPCo Compliance Percentage: | 1,150 % |

Appendix C

Federal Automotive Statistical Tool

2015 AFV Report: Projected Data (FY2017)

| 1. Projected Light-Duty Vehicle Acquisitions and Exemptions | | | |
|---|--------------|-----------|-------|
| | Acquisitions | | |
| | Leased | Purchased | Total |
| Total Light-Duty Vehicle Acquisitions | 74 | 0 | 74 |
| Fleet Exemptions: Fleet Size | 0 | 0 | 0 |
| Fleet Exemptions: Foreign | 0 | 0 | 0 |
| Fleet Exemptions: Geographic | 0 | 0 | 0 |
| Fleet Exemptions: Non-MSA Operation | 0 | 0 | 0 |
| Vehicle Exemptions: LE Vehicle | 43 | 0 | 43 |
| Vehicle Exemptions: Non-covered Vehicle | 0 | 0 | 0 |
| Vehicle Exemptions: Non-MSA Operation | 29 | 0 | 29 |
| Total EPCovered Vehicles | 2 | 0 | 2 |

| 2. Projected Alternative Fuel Vehicle Acquisition Detail | | | | | | |
|--|---------------------|-----|--------------|----------|-------|-------------|
| Vehicle Type | Fuel | LE | Acquisitions | | | EPA Credits |
| | | | Lease | Purchase | Total | |
| Light Duty Vehicles | | | | | | |
| Sedan/St Wgn Compact | E85 FF | No | 6 | 0 | 6 | 6 |
| Sedan/St Wgn Compact | E85 FF | Yes | 16 | 0 | 16 | 0 |
| Sedan/St Wgn Compact | GAS HY ³ | No | 10 | 0 | 10 | 10 |
| Sedan/ St Wgn Compact | GAS HY ³ | Yes | 1 | 0 | 1 | 0 |
| Sedan/St Wgn Midsize | E85 FF | No | 6 | 0 | 6 | 6 |
| Sedan/St Wgn Midsize | E85 FF | Yes | 1 | 0 | 1 | 0 |
| Sedan/St Wgn Subcompact | E 85 FF | No | 1 | 0 | 1 | 1 |
| LD Minivan 4x2 (Passenger) | E85 FF | No | 3 | 0 | 3 | 3 |
| LD Minivan 4 x2 (Passenger) | E85 FF | Yes | 4 | 0 | 4 | 0 |
| LD SUV 4x2 | E85 FF | Yes | 1 | 0 | 1 | 1 |
| LD SUV 4x4 | E85 FF | Yes | 1 | 0 | 1 | 0 |
| Totals: | | | 50 | 0 | 50 | 26 |

| 3. Projected EPCovered Acquisition Credits Summary | |
|--|---------|
| Base AFV Acquisition Credits: | 26 |
| Zero Emission Vehicle (ZEV) Credits: | 0 |
| Dedicated Light Duty AFV Credits: | 0 |
| Biodiesel Fuel Usage Credits: ⁴ | 0 |
| Total EPCovered Credits: | 26 |
| Overall EPCovered Compliance Percentage: | 1,300 % |

Appendix D

Federal Automotive Statistical Tool

2015 AFV Report: Forecast Data (FY2018)

1. Forecast Light-Duty Vehicle Acquisitions and Exemptions

| | Acquisitions | | |
|---|--------------|-----------|-------|
| | Leased | Purchased | Total |
| Total Light-Duty Vehicle Acquisitions | 86 | 0 | 86 |
| Fleet Exemptions: Fleet Size | 0 | 0 | 0 |
| Fleet Exemptions: Foreign | 0 | 0 | 0 |
| Fleet Exemptions: Geographic | 0 | 0 | 0 |
| Fleet Exemptions: Non-MSA Operation | 0 | 0 | 0 |
| Vehicle Exemptions: LE Vehicle | 55 | 0 | 55 |
| Vehicle Exemptions: Non-covered Vehicle | 0 | 0 | 0 |
| Vehicle Exemptions: Non-MSA Operation | 29 | 0 | 29 |
| Total EPCovered Vehicles | 2 | 0 | 2 |

2. Forecast Alternative Fuel Vehicle Acquisition Detail

| Vehicle Type | Fuel | LE | Lease | Acquisitions | | EPA |
|----------------------------|---------------------|-----|-------|--------------|-------|---------|
| | | | | Purchase | Total | Credits |
| Light Duty Vehicles | | | | | | |
| Sedan/St Wgn Compact | E85 FF | No | 1 | 0 | 1 | 1 |
| Sedan/St Wgn Compact | E85 FF | Yes | 9 | 0 | 9 | 0 |
| Sedan/St Wgn Compact | GAS HY ³ | No | 7 | 0 | 7 | 9 |
| Sedan/St Wgn Compact | GAS HY ³ | Yes | 2 | 0 | 2 | 0 |
| Sedan/St Wgn Midsize | E85 FF | No | 1 | 0 | 1 | 1 |
| Sedan/St Wgn Midsize | E85 FF | Yes | 4 | 0 | 4 | 4 |
| LD Minivan 4x2 (Passenger) | E85 FF | No | 7 | 0 | 7 | 7 |
| LD SUV 4x2 | E85 FF | No | 1 | 0 | 1 | 0 |
| LD SUV 4x2 | E85 FF | Yes | 1 | 0 | 1 | 0 |
| LD SUV 4x4 | E85 FF | Yes | 2 | 0 | 2 | 0 |
| LD SUV 4 x 4 | GAS HY ³ | No | 1 | 0 | 1 | 1 |
| Totals: | | | 39 | 0 | 39 | 21 |

3. Forecast EPA Act Acquisition Credits Summary

| | |
|--|---------|
| Base AFV Acquisition Credits: | 25 |
| Zero Emission Vehicle (ZEV) Credits: | 0 |
| Dedicated Light Duty AFV Credits: | 0 |
| Biodiesel Fuel Usage Credits: ⁴ | 0 |
| Total EPA Act Credits: | 25 |
| Overall EPA Act Compliance Percentage: | 1,050 % |