



U.S. Department of Housing and Urban Development

2013

# HUD FLEET ALTERNATIVE FUEL REPORT



Housing and Urban Development

## Executive Summary

The U.S. Department of Housing and Urban Development (HUD) hereby submits its fiscal year (FY) 2012 annual report on the Agency's efforts in meeting the fleet requirements of the Energy Policy Act (EPAAct) of 1992 (Public Law 102-486), as amended by the Energy Conservation Reauthorization Act of 1998 (Public Law 105-388); and in meeting the goals of Executive Order (E.O.) 13149, "Greening the Government through Federal Fleet and Transportation Efficiency" (65 FR 24607), which was signed in April 2000. Section 705 of the EPAAct of 2005 (Public Law 109-58, enacted August 8, 2005), amended the due date of this report to February 15 of every year.

EPAAct of 1992 requires that 75% of Federal Light Duty Vehicles (LDV) acquisitions in metropolitan statistical areas (MSA) must be alternative fuel vehicles (AFV). MSA comprises a central county or counties with a Census Bureau-defined urban cluster of 10,000 to 49,999 population, plus adjacent outlying counties having high degree or economic and social integration with the central county as measured through commuting. Covered fleets are those state or business fleets that operate, lease, or control 50 or more light-duty vehicles. Of these 50 vehicles, at least 20 are used primarily within a single MSA/CMSA. E.O. 13423 requires Federal agencies to increase alternative fuel consumption by 10% annually compared to the prior year's alternative fuel usage. The E.O. also sets goals for non-exempt Federal agencies to reduce petroleum consumption by 2% annually relative to a FY 2005 baseline. Table 1 summarizes the Agency's performance in meeting these requirements.

Table 1. HUD FY 2013 Performance in Meeting EPAAct and E.O. 13423 Requirements

Driver	Performance Measure	FY 2013 Goal/Requirement	HUD Performance in 2013
<b>EPAAct</b>	AFV Acquisitions	75 % of all non-exempt acquisitions by Federal agencies be AFVs.	27 LDV AFV
<b>E.O. 13423</b>	Petroleum Consumption	Reduce petroleum consumption by 2 % annually.	Consumed 75,943 GGE which is a 62% reduction from the baseline.
	Alternative Fuel Consumption	Increase AF by 10%.	Consumed 1,988 GGE which is far greater than the target (111 GGE).

## Legislative and Executive Order Requirements

Section 303 of EPA Act (42 U.S.C. 13212) requires that 75% of all non-exempt light-duty vehicles acquired by Federal fleets in FY 1999 and thereafter be AFVs. The EPA Act 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 (i.e. compounded annually). If measured cumulatively from the FY 2005 baseline, the annual increases are 10% for FY 2006, 21% for FY2007, 33.1% for FY 2008 and so on.

The Energy Conservation Reauthorization Act of 1998 amended EPA Act 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 EPA Act acquisition requirements and do not carry over into subsequent years.

Section 701 of EPA Act 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 EPO Act 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 2013 Fleet Compliance with EPO Act

AFV acquisitions for the Agency fleet from 2013-2016 and HUD's EPO Act compliance percentage for non-exempt AFV acquisitions are displayed in Appendices A-D. The figures show that HUD was not compliant for 2013. HUD acquired a total of 66 Light Duty Vehicles (LDV). Of those, 3 were exempt law enforcement, 62 were exempt Non-MSA, and 1 was EPO Act covered. HUD acquired 27 light duty AFV vehicles.

### HUD's FY 2013 Compliance with EO 13423

Table 3 summarizes HUD's performance toward the EO 13423 petroleum reduction goal. In FY 2013, HUD was required to reduce petroleum consumption by 10% relative to a FY 2005 consumption baseline to 165,962 GGE consumed and had an actual reduction of 62% (75,943 GGE consumed) below FY 2005 baseline levels. HUD's actual reduction in petroleum consumption from target petroleum consumption was 54%.

Table 3- Petroleum Consumption for FY 2013

Petroleum Consumption	Totals
FY 2005 Baseline	197,574 GGE
FY 2013 Target Petroleum	165,962 GGE
FY 2013 Actual Petroleum Consumption	75,943 GGE (62% reduction from baseline) (54% reduction from target )
<b>Compliant</b>	<b>YES</b>

Table 4 summarizes HUD’s performance toward the EO 13423 alternative fuel goals. In FY 2013, HUD was required to increase alternative fuel use by 122 GGE relative to a FY 2005 consumption baseline of 57 GGE. HUD had consumed 1,988 GGE, which is over 100% above the FY 2005 baseline and FY 2013 target petroleum alternative fuel consumption.

Table 4- Alternative Fuel Consumption for FY 2013

<b>Alternative Fuel Consumption</b>	<b>Totals</b>
FY 2005 Baseline	57 GGE
FY 2013 Target Petroleum	122 GGE (95 % increase from baseline)
FY 2013 Actual Alternative Fuel Consumption	1,988 GGE (<100% increase from baseline) (<100% increase from target )
<b>Compliant</b>	<b>YES</b>

### **HUD’s Strategy to Meet Fleet Requirements**

#### **(EPA Act of 2005, EO 13423 and EO 13514)**

On May 24, 2011, The President issued a Presidential Memorandum-Federal Fleet Performance. In it, the President stated the Federal Government has a “responsibility to American citizens to lead by example and contribute to meeting our national goals of reducing oil imports by one-third by 2025 and putting one million advanced vehicles on the road by 2015.

General Services Administration (GSA) tasked federal agencies to do a Vehicle Allocation Methodology (VAM). The purpose of the VAM is to achieve Federal fleet that is comprised of smaller more fuel efficient, less greenhouse-gas emitting vehicles that operate primarily on alternative fuels by the year 2015. The VAM study helped identify and eliminate unnecessary or non-essential vehicles from their motor vehicle fleets, and promote the cost-effectiveness of maintaining the fleets throughout their lifecycles.

One of the requirements of the VAM was to create a fleet management plan. HUD’s fleet management plan was reviewed by GSA and the following recommendations were made:

- Fleet reductions in excess of 9% planned
- Right size vehicles. Reduction in the large size vehicles.
- Look into shared fleet on demand services.

HUD has continued to follow the guidelines suggested by GSA. Unfortunately we were not able to start a shared fleet on demand service. However, we have had an overall reduction of 5% of the entire HUD fleet. HUD is continuing to make reductions to achieve the optimal fleet for the agency. HUD is currently in the process of ensuring that we meet the Presidential Fleet Performance requirement of increasing the number of alternative fuel vehicles. We have targeted 37 gas fuel cars. Our goal is to have those 37 vehicles switched to alternative fuel vehicles or, if not being fully utilized, removed from the fleet.

HUD will continue to market the tools, such as alternative fuel station locators and educate the end users on alternative fuel vehicles that are available. HUD believes that through effective awareness and education, we will continue to increase in alternative fuel usage as well as increase acquisitions of AFVs.

With adhering to the recommendations stated by GSA, and implementing them, HUD will be able to meet the fleet requirements outlined in E.P.A. Act of 2005, E.O.13423, and E.O.13514.) The biggest challenge will be going from larger sized vehicles to more small compacts.

## APPENDIX A

### 2013 AFV Report: Actual Data (FY2013)

#### 1. Actual Light-Duty Vehicle Acquisitions and Exemptions

	Acquisitions		
	Leased	Purchased	Total
Total Light-Duty Vehicle Acquisitions	66	0	66
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	3	0	3
Vehicle Exemptions: Non-covered Vehicle	0	0	0
Vehicle Exemptions: Non-MSA Operation	62	0	62
Total EPAAct-Covered Vehicles	1	0	1

#### 2. Actual Alternative Fuel Vehicle Acquisition Detail

Vehicle Type	Fuel	LE	Acquisitions		Total	EPAAct Credits
			Lease	Purchase		
Light Duty Vehicles						
Sedan/St Wgn Compact	E85 FF	No	11	0	11	11
Sedan/St Wgn Compact	GAS HY <sup>3</sup>	No	2	0	2	2
Sedan/St Wgn Midsize	E85 FF	No	4	0	4	4
Sedan/St Wgn Subcompact	E85 FF	No	4	0	4	4
Sedan/St Wgn Subcompact	GAS PH	No	1	0	1	1
LD Minivan 4x2 (Passenger)	E85 FF	No	4	0	4	4
LD SUV 4x4	E85 FF	No	1	0	1	1
Totals:			27	0	27	27

#### 3. Actual EPAAct Acquisition Credits Summary

Base AFV Acquisition Credits:	27
Zero Emission Vehicle (ZEV) Credits:	0
Dedicated Light Duty AFV Credits:	0
Biodiesel Fuel Usage Credits: <sup>4</sup>	0
Total EPAAct Credits:	27
Overall EPAAct Compliance Percentage:	<b>2,700 %</b>

## Appendix B

### 2013 AFV Report: Planned Data (FY2014)

#### 1. Planned Light-Duty Vehicle Acquisitions and Exemptions

	Acquisitions		
	Leased	Purchased	Total
Total Light-Duty Vehicle Acquisitions	95	0	95
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	13	0	13
Vehicle Exemptions: Non-covered Vehicle	0	0	0
Vehicle Exemptions: Non-MSA Operation	81	0	81
Total EAct-Covered Vehicles	1	0	1

#### 2. Planned Alternative Fuel Vehicle Acquisition Detail

Vehicle Type	Fuel	LE	Acquisitions			EAct Credits
			Lease	Purchase	Total	
Light Duty Vehicles						
Sedan/St Wgn Compact	E85 FF	No	19	0	19	19
Sedan/St Wgn Compact	E85 FF	Yes	2	0	2	0
Sedan/St Wgn Midsize	E85 FF	No	36	0	36	36
Sedan/St Wgn Midsize	E85 FF	Yes	5	0	5	0
Sedan/St Wgn Midsize	GAS HY <sup>3</sup>	Yes	1	0	1	0
LD Minivan 4x2 (Passenger)	E85 FF	No	5	0	5	5
LD Minivan 4x2 (Passenger)	E85 FF	Yes	2	0	2	0
LD SUV 4x2	E85 FF	No	1	0	1	1
Medium Duty Vehicles						
MD SUV	E85 FF	Yes	3	0	3	0
Totals:			74	0	74	61

#### 3. Planned EAct Acquisition Credits Summary

Base AFV Acquisition Credits:	61
Zero Emission Vehicle (ZEV) Credits:	0
Dedicated Light Duty AFV Credits:	0
Dedicated Medium Duty AFV Credits:	0
Biodiesel Fuel Usage Credits: <sup>4</sup>	0
Total EAct Credits:	61
Overall EAct Compliance Percentage:	<b>6,100 %</b>

## Appendix C

### 2013 AFV Report: Projected Data (FY2015)

<b>1. Projected Light-Duty Vehicle Acquisitions and Exemptions</b>			
	<b>Acquisitions</b>		
	<b>Leased</b>	<b>Purchased</b>	<b>Total</b>
Total Light-Duty Vehicle Acquisitions	69	0	69
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	5	0	5
Vehicle Exemptions: Non-covered Vehicle	0	0	0
Vehicle Exemptions: Non-MSA Operation	63	0	63
Total EAct-Covered Vehicles	1	0	1

<b>2. Projected Alternative Fuel Vehicle Acquisition Detail</b>						
<b>Vehicle Type</b>	<b>Fuel</b>	<b>LE</b>	<b>Acquisitions</b>			<b>EAct Credits</b>
			<b>Lease</b>	<b>Purchase</b>	<b>Total</b>	
<b>Light Duty Vehicles</b>						
Sedan/St Wgn Compact	E85 FF No		30	0	30	30
Sedan/St Wgn Midsize	E85 FF No		17	0	17	17
Sedan/St Wgn Midsize	E85 FF Yes		1	0	1	0
LD Minivan 4x2 (Passenger)	E85 FF No		5	0	5	5
LD Pickup 4x2	E85 FF Yes		1	0	1	0
LD SUV 4x2	E85 FF No		3	0	3	3
LD SUV 4x2	E85 FF Yes		1	0	1	0
LD Van 4x2 (Passenger)	E85 FF No		1	0	1	1
LD SUV 4x4	E85 FF No		1	0	1	1
LD SUV 4x4	E85 FF Yes		1	0	1	0
Totals:			61	0	61	57

<b>3. Projected EAct Acquisition Credits Summary</b>	
Base AFV Acquisition Credits:	57
Zero Emission Vehicle (ZEV) Credits:	0
Dedicated Light Duty AFV Credits:	0
Biodiesel Fuel Usage Credits: <sup>4</sup>	0
Total EAct Credits:	57
Overall EAct Compliance Percentage:	<b>5,700 %</b>

## Appendix D

### 2013 AFV Report: Forecast Data (FY2016)

#### 1. Forecast Light-Duty Vehicle Acquisitions and Exemptions

	Acquisitions		
	Leased	Purchased	Total
Total Light-Duty Vehicle Acquisitions	94	0	94
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	10	0	10
Vehicle Exemptions: Non-covered Vehicle	0	0	0
Vehicle Exemptions: Non-MSA Operation	79	0	79
Total EPAAct-Covered Vehicles	5	0	5

#### 2. Forecast Alternative Fuel Vehicle Acquisition Detail

Vehicle Type	Fuel	LE	Acquisitions			EPAAct Credits
			Lease	Purchase	Total	
Light Duty Vehicles						
Sedan/St Wgn Compact	E85 FF	No	27	0	27	27
Sedan/St Wgn Compact	E85 FF	Yes	6	0	6	0
Sedan/St Wgn Compact	GAS HY <sup>3</sup>	No	28	0	28	28
Sedan/St Wgn Compact	GAS HY <sup>3</sup>	Yes	2	0	2	0
Sedan/St Wgn Midsize	E85 FF	No	6	0	6	6
LD Minivan 4x2 (Passenger)	E85 FF	No	4	0	4	4
LD SUV 4x2	E85 FF	No	9	0	9	9
LD SUV 4x4	E85 FF	No	2	0	2	2
LD SUV 4x4	E85 FF	Yes	1	0	1	0
Totals:			85	0	85	76

#### 3. Forecast EPAAct Acquisition Credits Summary

Base AFV Acquisition Credits:	76
Zero Emission Vehicle (ZEV) Credits:	0
Dedicated Light Duty AFV Credits:	0
Biodiesel Fuel Usage Credits: <sup>4</sup>	0
Total EPAAct Credits:	76
Overall EPAAct Compliance Percentage:	<b>1,520 %</b>