

U.S. Department of Commerce

Alternative Fuel Vehicle Report

**Fiscal Year
2013**



U.S Department of Commerce

Fleet Alternative Fuel Vehicle Report for Fiscal Year 2013

This report summarizes the U.S. Department of Commerce (DOC) fiscal year (FY) 2013 performance in meeting the requirements of Executive Order (EO) 13423, *Strengthening Federal Environmental, Energy, and Transportation Management*; the Energy Policy Act of 1992 (EPAAct; 42 US Code 13211-13219) as amended by the Energy Conservation Reauthorization Act of 1998 (ECRA; Public Law 105-388) and the EPAAct of 2005 (Public Law 109-58); and the Energy Independence and Security Act (EISA; Public Law 110-140) of 2007 (Section 141).

Exhibit 1 summarizes DOC progress in meeting the EO and EPAAct requirements. Appendices A and B reflect DOC vehicle acquisitions for FYs 2013 – 2016 and fuel consumption data, respectively.

Exhibit 1 – DOC Performance – EPAAct/EO 13423 Requirements

Authority/Mandate	Performance Measure	Requirement	FY 2013 DOC Performance
EPAAct of 1992	Alternative Fuel Vehicle (AFV) acquisitions	75% of the 30 covered ¹ vehicle acquisitions must be AFVs	Accumulated 26 AFV credits (87% of covered acquisitions)
EO 13423	Reduce annual covered petroleum consumption	Reduce petroleum consumption of covered ² vehicles by 2% annually by the end of FY 2015 from FY 2005 baseline of 1,211,082 Gasoline Gallon Equivalents (GGEs)	Consumed 953,781 GGEs, a decrease of 21% from baseline – far exceeding the goal of a 10% reduction
EO 13423	Increase annual alternative fuel (AF) consumption	Equal or exceed the FY 2013 AF usage target of 2,334 GGEs, based on a compounded 10 percent annual rate of increase over the FY 2005 baseline of 1,089 GGEs	Used 30,288 GGEs, which far exceeds the 2013 target

¹ By definition, the term “covered” relative to vehicle acquisitions includes all domestic non-law enforcement (non-LE), light-duty (LD) vehicles operated in a metropolitan statistical area (MSA) and acquired by lease or purchase in FY 2013.

² By definition, the term “covered” relative to petroleum fuel reduction includes all domestic, non-LE vehicles of any weight and operating in or out of an MSA.

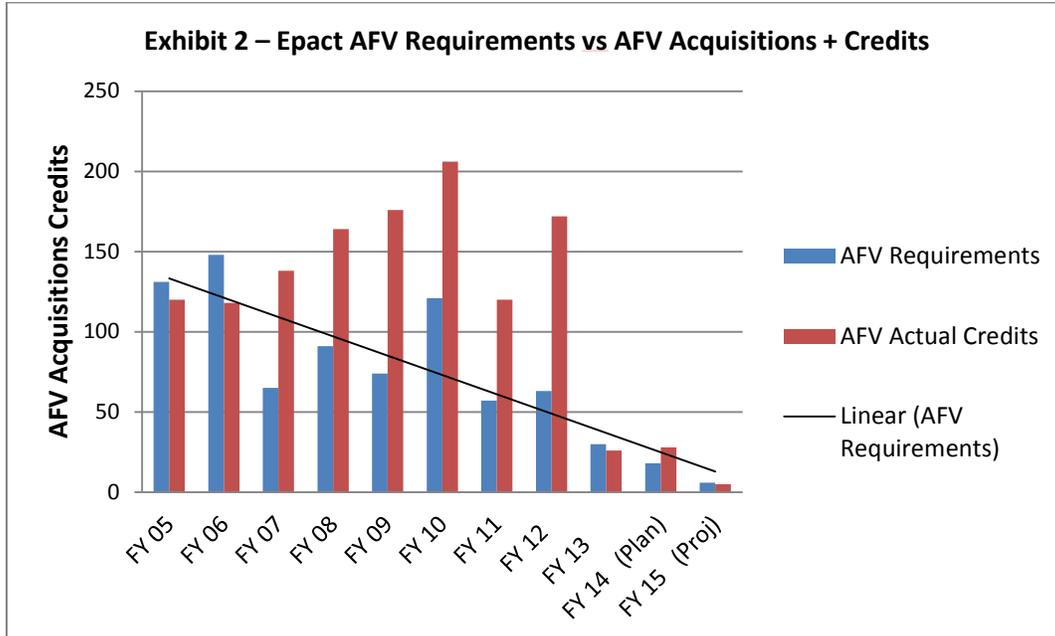
EPAct AFV Acquisition Compliance

DOC exceeded EPAct AFV acquisition requirements in FY 2013 as follows:

- DOC acquired 30 EPAct-covered vehicles (as shown in Appendix A).
- DOC accumulated 26 AFV credits through the acquisition of 30 EPAct-covered vehicles
- The resulting AFV percentage of covered vehicle acquisitions was 87% (26 AFV credits/30 EPAct-covered vehicles).

AFV Acquisitions

DOC has successfully met the EPAct requirement every year (see Exhibit 2), as reflected in the Federal Automotive Statistical Tool (FAST), due to DOC's general policy of acquiring AFVs for all covered vehicles.



Appendix A contains FAST data for the numbers and types of vehicles that DOC leased or purchased, as well as the AFV acquisition details in FY 2013 and projections for FY 2014 and FY 2015.

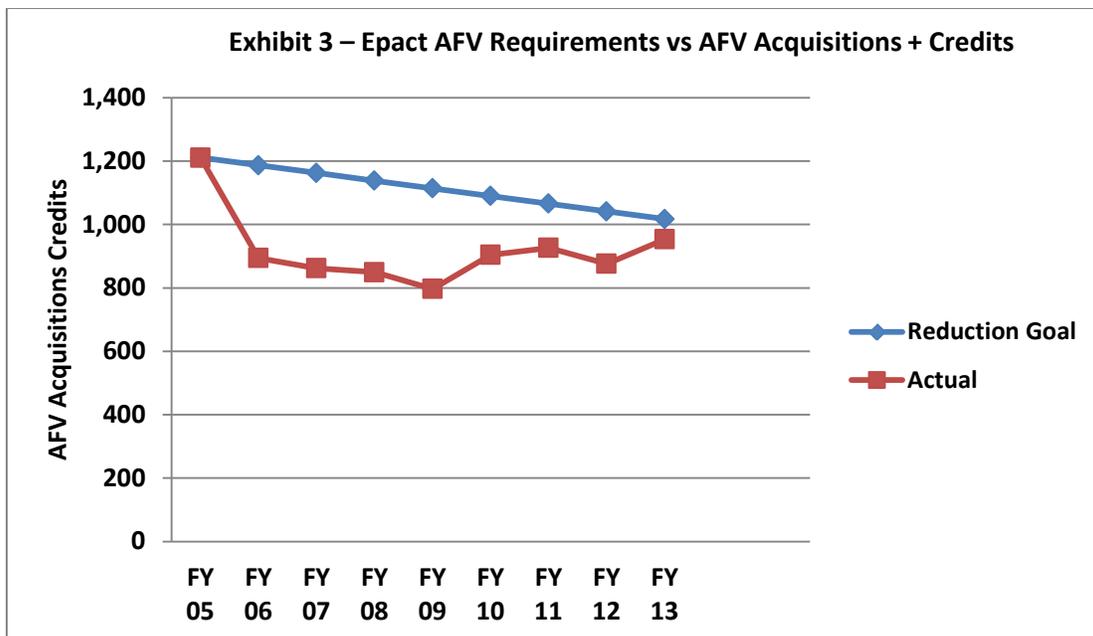
EO 13423 Compliance – Petroleum Use Reduction and AF Use Increase

In FY 2013, DOC continued to pursue the petroleum reduction targets specified in EO 13423, which calls for each Federal agency with 20 or more vehicles operating in the U.S. to:

- Reduce vehicular petroleum consumption (for domestic, non-LE vehicles of any weight and operating in or out of an MSA) by 2% annually through FY 2015 compared to FY 2005.
- Increase vehicular non-petroleum based fuel (i.e. alternative fuel) consumption by 10% compounded annually.
- Use plug-in hybrid electric vehicles (PHEV) when they are commercially available at a cost reasonably comparable, on the basis of life-cycle cost, to non-PHEVs.

Petroleum Reduction

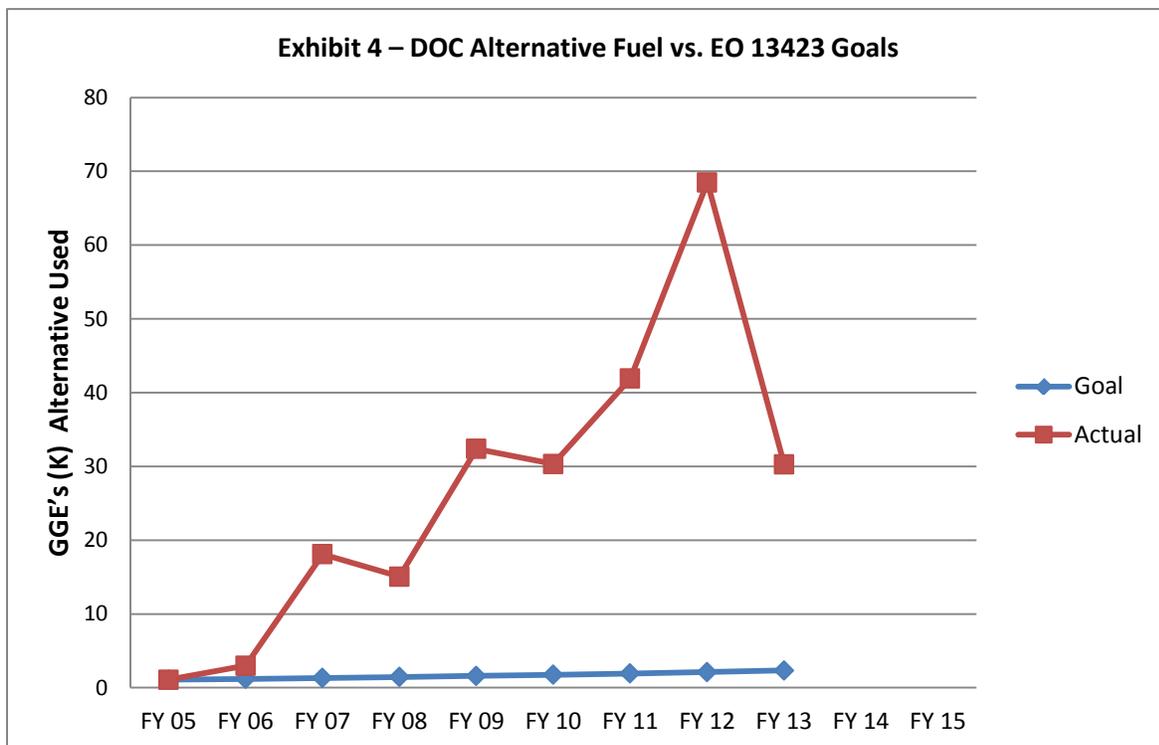
DOC's covered petroleum fuel consumption in FY 2013 was 953,781 GGEs, a 20% reduction from the FY 2005 baseline of 1,211,082 GGEs, as shown in Exhibit 3. This total is well below the 10% reduction target for FY 2013. Consequently, DOC was fully compliant with the petroleum use reduction requirement in FY 2013.



Appendix B offers a detailed look at DOC's petroleum usage compared to DOE's established targets.

Alternative Fuel Use

EO 13423 requires each Federal agency to increase annual AF consumption by 10% per year (compounded annually) through the end of FY 2015, based on an FY 2005 baseline. The FY 2005 baseline for DOC is 1,089 GGEs, so the target for DOC was 2,334 GGEs for FY 2013. The actual AF consumption in FY 2013 was 30,288 GGEs, far exceeding the established goal as shown in Exhibit 4. This increase reflects the ongoing efforts by DOC to provide guidance to all DOC Bureaus that AF is to be used in flex-fuel and bi-fuel AFVs, as available. DOC has also identified all AF stations located within the vicinity of DOC vehicle fleets and notified Bureau Fleet Managers of the opening of new AF stations. Appendix B represents AF use data for the DOC fleet in FY 2013.



Use of PHEV vehicles

In FY 2013, DOC Headquarters have a GSA PHEV through the GSA Pilot Program. DOC will also receive two PHEVs for Census Bureau and The National Institute of Standards and Technology (NIST) in FY14.

Summary

As noted above, DOC has attained and exceeded the targets detailed in the EAct and the EO 13423 for FY 2013 and has full confidence that it will continue to do so in the years ahead. The DOC continues to make significant strides in improving the management of its vehicle fleet and its compliance with environmental regulations. DOC has been able to exceed the AF use targets, but the lack of AF infrastructure continues to limit this effort. In light of this challenge, DOC has acquired vehicles with low greenhouse emissions and continue to place AFVs in locations where AF is available. Hybrid acquisitions will be focused where no AF is available also. Lastly, DOC has encouraged bureaus to contact local jurisdictions who use private stations for AF to consider forming a partnership. Participation in the PHEV pilot program will open up new options in our efforts to move DOC away from fossil fuels in our vehicle fleet.

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	29	17	46			
Fleet Exemptions: Fleet Size	0	0	0			
Fleet Exemptions: Foreign	0	9	9			
Fleet Exemptions: Geographic	0	0	0			
Fleet Exemptions: Non-MSA Operation	0	0	0			
Vehicle Exemptions: LE Vehicle	3	2	5			
Vehicle Exemptions: Non-covered Vehicle	0	0	0			
Vehicle Exemptions: Non-MSA Operation	2	0	2			
Total EAct-Covered Vehicles	24	6	30			
2. Actual 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	1	0	1	1
Sedan/St Wgn Compact	GAS HY ³	No	1	0	1	1
Sedan/St Wgn Midsize	E85 FF	No	1	1	2	2
Sedan/St Wgn Midsize	E85 FF	Yes	2	2	4	0
Sedan/St Wgn Midsize	GAS HY ³	No	1	0	1	1
LD Minivan 4x2 (Passenger)	E85 FF	No	6	3	9	9
LD Van 4x2 (Passenger)	E85 FF	No	3	0	3	3
LD Pickup 4x4	E85 FF	No	1	0	1	1
LD SUV 4x4	E85 FF	No	3	0	3	3
LD SUV 4x4	E85 FF	Yes	1	0	1	0
Medium Duty Vehicles						
MD Other	E85 FF	No	1	0	1	1
MD Pickup	E85 FF	No	1	0	1	1
MD SUV	E85 FF	No	1	0	1	1
MD Van (Cargo)	E85 FF	No	1	0	1	1
MD Van (Passenger)	E85 FF	No	1	0	1	1
Totals:			25	6	31	26
3. Actual EPA Act Acquisition Credits Summary						
Base AFV Acquisition Credits:						26
Zero Emission Vehicle (ZEV) Credits:						0
Dedicated Light Duty AFV Credits:						0
Dedicated Medium Duty AFV Credits:						0
Dedicated Heavy Duty AFV Credits:						0
Biodiesel Fuel Usage Credits: ⁴						0
Total EPA Act Credits:						26
Overall EPA Act Compliance Percentage:						87 %

2013 AFV Report: Planned Data (FY2014)

1. Planned Light-Duty Vehicle Acquisitions and Exemptions						
	Acquisitions					
	Leased	Purchased	Total			
Total Light-Duty Vehicle Acquisitions	14	8	22			
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	1	0	1			
Vehicle Exemptions: Non-covered Vehicle	0	0	0			
Vehicle Exemptions: Non-MSA Operation	3	0	3			
Total EAct-Covered Vehicles	10	8	18			
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	Yes	1	0	1	0
Sedan/St Wgn Midsize	E85 FF	No	3	0	3	3
LD Minivan 4x2 (Cargo)	E85 FF	No	1	0	1	1
LD Minivan 4x2 (Passenger)	E85 FF	No	6	0	6	6
LD Pickup 4x4	E85 FF	No	1	0	1	1
LD SUV 4x4	E85 FF	No	1	8	9	9
Medium Duty Vehicles						
MD Van (Cargo)	CNG DE	No	0	7	7	7
MD Van (Passenger)	E85 FF	No	1	0	1	1
Totals:			14	15	29	28

3. Planned EPA Act Acquisition Credits Summary	
Base AFV Acquisition Credits:	28
Zero Emission Vehicle (ZEV) Credits:	0
Dedicated Light Duty AFV Credits:	0
Dedicated Medium Duty AFV Credits:	0
Dedicated Heavy Duty AFV Credits:	0
Biodiesel Fuel Usage Credits: ⁴	0
Total EPA Act Credits:	28
Overall EPA Act Compliance Percentage:	156 %

2013 AFV Report: Projected Data (FY2015)

1. Projected Light-Duty Vehicle Acquisitions and Exemptions						
	Acquisitions					
	Leased	Purchased	Total			
Total Light-Duty Vehicle Acquisitions	6	0	6			
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	0	0	0			
Vehicle Exemptions: Non-covered Vehicle	0	0	0			
Vehicle Exemptions: Non-MSA Operation	0	0	0			
Total EPA Act-Covered Vehicles	6	0	6			
2. Projected Alternative Fuel Vehicle Acquisition Detail						
Vehicle Type	Fuel	LE	Acquisitions			EPA Act Credits
			Lease	Purchase	Total	
Light Duty Vehicles						
LD Minivan 4x2 (Passenger)	E85 FF	No	5	0	5	5
Totals:			5	0	5	5

3. Projected EAct Acquisition Credits Summary	
Base AFV Acquisition Credits:	5
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 EAct Credits:	5
Overall EAct Compliance Percentage:	83 %

2013 AFV Report: Forecast Data (FY2016)

1. Forecast Light-Duty Vehicle Acquisitions and Exemptions						
	Acquisitions					
	Leased	Purchased	Total			
Total Light-Duty Vehicle Acquisitions	3	0	3			
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	0	0	0			
Vehicle Exemptions: Non-covered Vehicle	0	0	0			
Vehicle Exemptions: Non-MSA Operation	0	0	0			
Total EAct-Covered Vehicles	3	0	3			
2. Forecast Alternative Fuel Vehicle Acquisition Detail						
Vehicle Type	Fuel	LE	Acquisitions			EAct Credits
			Lease	Purchase	Total	
Light Duty Vehicles						
Sedan/St Wgn Midsize	E85 FF	No	1	0	1	1
LD Minivan 4x2 (Cargo)	E85 FF	No	2	0	2	2

Totals:	3	0	3	3
3. Forecast EAct Acquisition Credits Summary				
Base AFV Acquisition Credits:				3
Zero Emission Vehicle (ZEV) Credits:				0
Dedicated Light Duty AFV Credits:				0
Dedicated Medium Duty AFV Credits:				0
Dedicated Heavy Duty AFV Credits:				0
Biodiesel Fuel Usage Credits: ⁴				0
Total EAct Credits:				3
Overall EAct Compliance Percentage:				100 %

Appendix B

Department of Commerce Fuel Use in FY 2013		
Fuel Type	Quantity	Unit
Biodiesel-B100	0	Gallons
CNG	15,474	Gallons @ 2,400 psi, 70°F
+62CNG	0	Hundred cu. ft.
Diesel	100,403	Gallons
E-85 (ethanol)	30,117	Gallons
Gasoline	868,718	Gallons
Methanol	0	Gallons
Propane	0	Gallons