

FISCAL YEAR 2021 ALTERNATIVE FUEL VEHICLE ACQUISITION REPORT

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**U.S. Environmental
Protection Agency**





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Legislative Requirements

Congress has established laws regarding federal fleet sustainability that make alternative fuel vehicle (AFV) acquisitions and petroleum consumption reduction a priority for federal agencies. Table 1 below summarizes federal fleet requirements for vehicle acquisitions, greenhouse gas (GHG) emissions and fuel consumption.

Table 1. Summary of Federal Fleet Requirements

The Energy Policy Act (EPAct) of 1992, as amended by the Energy Conservation Reauthorization Act of 1998 and Section 2862 of the National Defense Authorization Act of 2008	
<ul style="list-style-type: none"> Acquire a minimum 75 percent of light-duty (LD) vehicles as AFVs, unless exempted 	
EPAct of 2005, Section 701	
<ul style="list-style-type: none"> Use alternative fuels to operate dual-fueled vehicles, unless the vehicles qualify for a waiver 	
Energy Independence and Security Act (EISA) of 2007, Section 141	
<ul style="list-style-type: none"> Light-duty or medium-duty (MD) passenger vehicle acquisitions must be low-GHG vehicles (LGHGVs) or have a functional needs exception (FNE) 	

Executive Summary of Compliance

Table 2. EPA’s Fiscal Year (FY) 2021 Performance in Meeting Federal Fleet Requirements

Driver	Performance Measure	FY 2021 Goal/Requirement	EPA FY 2021 Performance
EPAct 1992	AFV Acquisitions	75 percent of the 75 non-exempt, LD vehicles acquired in FY 2021 (i.e., at least 57 AFV credits and acquisitions)	Acquired 57 AFVs and AFV credits, or 76 percent of non-exempt acquisitions
EISA 2007	LGHGV Acquisitions	100 percent of non-exempt LD and MD passenger vehicles must be LGHGVs (i.e., 112 of 112 covered vehicles)	Achieved 100 percent LGHGV acquisition rate for non-exempt vehicle acquisitions
EPAct 2005 Section 701	Alternative Fuel Usage	Non-waivered dual-fueled vehicles must use 100 percent alternative fuel (i.e., 53,431 gasoline gallon equivalents [GGEs] of fuel)	Consumed 3,254 GGEs of alternative fuel, for a compliance rate of 6 percent



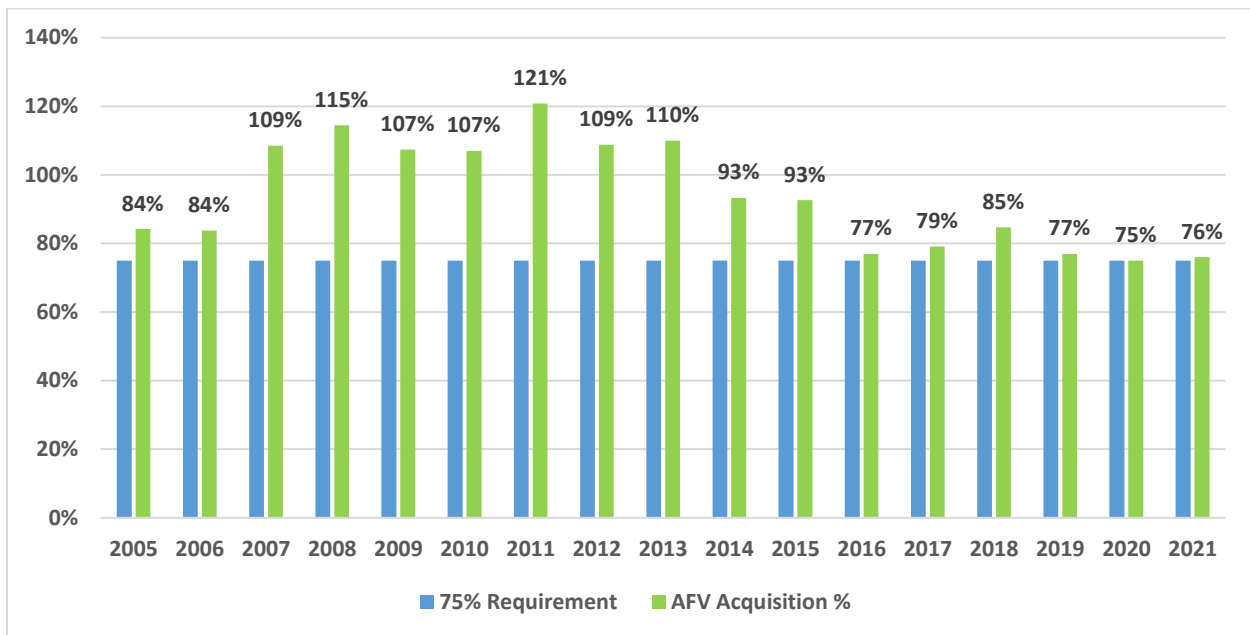
FY 2021 Compliance With EAct 1992

Table 1. EPA's FY 2021 Performance in Meeting EAct 1992 Requirements

EAct-Covered Non-Exempt Vehicle Acquisitions	75
AFVs Acquired	57
Additional Credits Earned	0
Total AFVs and Credits (% of non-exempt acquisitions)	76%

EPA achieved a 76 percent AFV acquisition rate in FY 2021, which meets the EAct 1992 requirement of a 75 percent AFV acquisition rate and is consistent with past performance in FY 2005 through FY 2020. EPA anticipates meeting the EAct 1992 AFV acquisition requirements in FY 2022 as well. See Appendix A for an inventory of FY 2021 AFV acquisitions.

Figure 1. EPA's EAct AFV Acquisition Compliance Rates, FY 2005-2021¹



¹ Includes credits for petroleum-dedicated AFVs (also known as LGHGVs) and biodiesel use. Percentages can exceed 100 percent of covered acquisitions when EPA receives AFV credits for non-covered acquisitions and other events.



FY 2021 Compliance With EAct 2005 Section 701

Table 4. EPA's FY 2021 Performance in Meeting EAct 2005 Section 701 Requirements

	E85	Gas/Diesel	Total	Percent Alternative Fuel
Volume in GGEs	3,254	50,177	53,431	6%

In FY 2021, non-waivered, dual-fueled EPA vehicles consumed 53,431 GGEs of fuel, which included 3,254 GGEs of alternative fuel (i.e., E85), resulting in an alternative fuel consumption rate of 6 percent.

FY 2021 Compliance With EISA 2007 Section 141

Table 5. EPA's FY 2021 Performance in Meeting EISA 2007 Section 141 Requirements

Acquisitions	128
Section 141 Non-Applicable Acquisitions	16 (of 128)
Section 141 Subject Acquisitions	112 (of 128)
LGHGV Acquisitions	47 (of 112)
FNE Acquisitions	65 (of 112)
Total EISA 2007 Compliant Acquisitions	112 (of 112)
FY 2021 Compliance Target	100%
FY 2021 Actual Performance	100%

In FY 2021, EPA acquired 112 vehicles that were subject to EISA 2007 Section 141 requirements, and all 112 were compliant. Of these, 47 were LGHGV acquisitions, and the other 65 non-LGHGV acquisitions had an FNE, resulting in an EISA 2007 Section 141 compliant acquisition rate of 100 percent. EPA will continue to monitor all vehicle acquisitions to ensure that EISA 2007 Section 141 acquisition requirements are met.



Appendix A: FY 2021 EPA Act Reported Vehicle Acquisitions

LD Vehicle Acquisitions and Exemptions			
	Leased	Purchased	Total
Total LD Vehicle Acquisitions	111	0	111
Fleet Exemptions: Fleet Size	0	0	0
Fleet Exemptions: Foreign	0	0	0
Fleet Exemptions: Geographic	9	0	9
Exemptions: Law Enforcement Vehicle	27	0	27
Exemptions: Non-Covered Vehicle	0	0	0
Exemptions: Non-Metropolitan Statistical Area Operation	0	0	0
Total EPA Act Covered Vehicles	75	0	75

AFV Acquisition Detail						
Vehicle Type	Fuel	Law Enforcement	Leased	Purchased	Total	EPA Act Credits
LD Vehicles						
Sedan Compact	GAS HY	No	7	0	7	7
Sedan Compact	GAS HY	Yes	2	0	2	0
Sedan Subcompact	ELE DE	No	3	0	3	3
Sedan Subcompact	GAS DE	No	1	0	1	1
Sedan Subcompact	GAS HY	No	1	0	1	1
Sedan Subcompact	GAS/ELE PH	No	1	0	1	1
LD Minivan 4x2 (Passenger)	GAS DE	No	2	0	2	2
LD Minivan 4x2 (Passenger)	GAS/E85 FF	No	5	0	5	5
LD Minivan 4x2 (Passenger)	GAS/E85 FF	Yes	1	0	1	0
LD SUV 4x2	GAS HY	No	7	0	7	7
LD Pickup 4x4	GAS/E85 FF	No	4	0	4	4
LD Pickup 4x4	GAS/E85 FF	Yes	5	0	5	0
LD SUV 4x4	GAS DE	No	8	0	8	8
LD SUV 4x4	GAS HY	No	8	0	8	8
LD SUV 4x4	GAS/E85 FF	No	6	0	6	6
LD SUV 4x4	GAS/E85 FF	Yes	1	0	1	0
MD Vehicles						
MD Pickup	GAS/E85 FF	No	1	0	1	1
MD Van (Cargo)	GAS/E85 FF	No	2	0	2	2
MD Van (Passenger)	GAS/E85 FF	No	1	0	1	1
Totals:			66	0	66	57

EPA Act Acquisition Credits Summary	
Base AFV Acquisition Credits	57
Zero Emission Vehicle Credits	0
Dedicated LD AFV Credits	0
Dedicated MD AFV Credits	0
Biodiesel Fuel Usage Credits	0
Total EPA Act Credits	57
Total EPA Act Covered Vehicles	75
Overall EPA Act Compliance Percentage	76%



Appendix B: Acronyms

Acronym	Phrase
AFV	Alternative fuel vehicle
GAS/E85	Ethanol (85 percent ethanol, 15 percent petroleum)
FF	Flex-fuel
EISA	Energy Independence and Security Act of 2007
GAS/ELE PH	Electric plug-in hybrid
FNE	Functional needs exception
EPAct	Energy Policy Act of 1992
FY	Fiscal year
GAS HY	Gasoline hybrid electric vehicle
GGE	Gasoline gallon equivalent
GHG	Greenhouse gas
LD/MD/HD	Light-, medium-, or heavy-duty (as determined by gross vehicle weight)
LGHGV	Low greenhouse gas-emitting vehicle
SUV	Sport utility vehicle