

FISCAL YEAR 2021 ALTERNATIVE FUEL VEHICLE ACQUISITION REPORT

February 2022

Revised May 2022

U.S. Environmental
Protection Agency





Contents

| | |
|--|---|
| Legislative Requirements..... | 1 |
| Executive Summary of Compliance..... | 1 |
| FY 2021 Compliance With EPAct 1992..... | 2 |
| FY 2021 Compliance With EPAct 2005, Section 701..... | 3 |
| FY 2021 Compliance With EISA 2007, Section 141..... | 3 |
| Appendix A: FY 2021 EPAct Reported Vehicle Acquisitions..... | 4 |
| Appendix B: Acronyms..... | 5 |



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"> LD 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 45 non-exempt, LD vehicles acquired in FY 2021 (i.e., at least 34 AFV credits and acquisitions) | Acquired 57 AFVs and AFV credits, or 127 percent of non-exempt 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 |
| 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 |



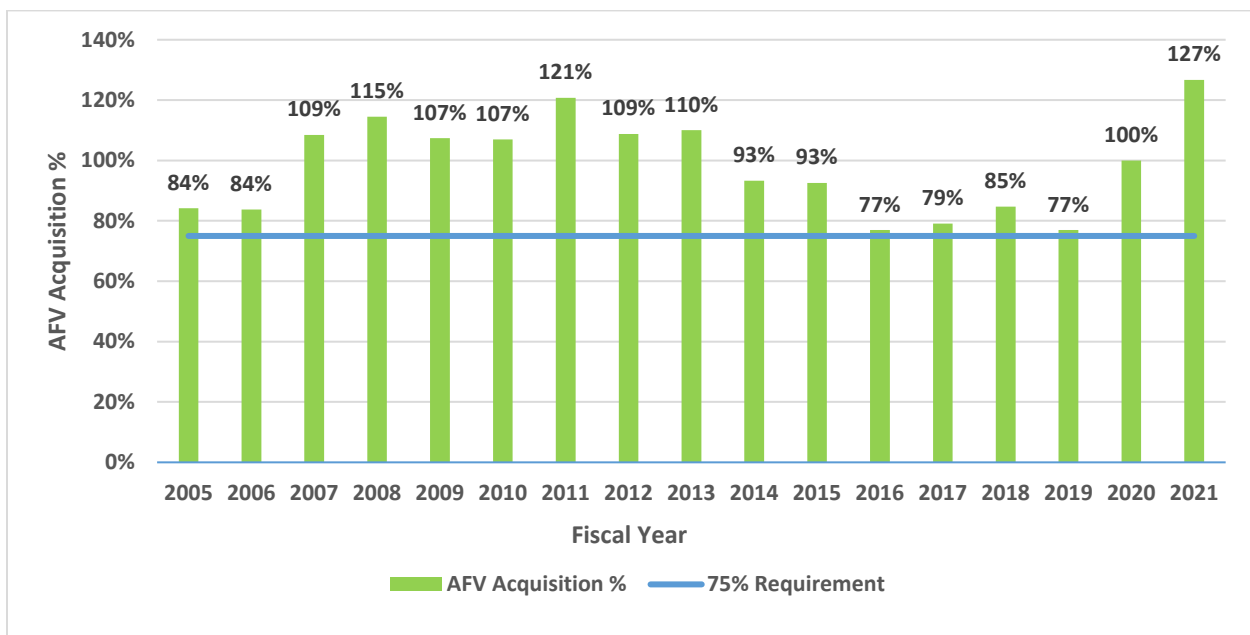
FY 2021 Compliance With EPOact 1992

Table 1. EPA’s FY 2021 Performance in Meeting EPOact 1992 Requirements

| | |
|--|-------------|
| EPOact-Covered Non-Exempt Vehicle Acquisitions | 45 |
| AFVs Acquired | 57 |
| Additional Credits Earned | 0 |
| Total AFVs and Credits (% of non-exempt acquisitions) | 127% |

EPA achieved a 127 percent AFV acquisition rate in FY 2021, which meets the EPOact 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 EPOact 1992 AFV acquisition requirements in FY 2022 as well. See Appendix A for an inventory of FY 2021 AFV acquisitions.

Figure 1. EPA’s EPOact AFV Acquisition Compliance Rates, FY 2005-FY 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 | 30 | 0 | 30 |
| 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 | 45 | 0 | 45 |

| AFV Acquisition Detail | | | | | | |
|----------------------------|------------|-----------------|-----------|-----------|-----------|-----------------|
| Vehicle Type | Fuel | Law Enforcement | Leased | Purchased | Total | EPA Act Credits |
| <i>LD Vehicles</i> | | | | | | |
| 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 |
| <i>MD Vehicles</i> | | | | | | |
| 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 | 45 |
| Overall EPA Act Compliance Percentage | 127% |



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 |
| 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 |