



# Annual Report on Energy-Efficient Purchasing

Fiscal Year 2021-2022

Department of General Services | Vehicle and Asset Management | January 2023



# Contents

PROCUREMENT REQUIREMENTS ..... 1

REPORTING REQUIREMENTS ..... 2

VEHICLE AND ASSET MANAGEMENT ANALYSIS..... 3



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# PROCUREMENT REQUIREMENTS

Procurement of energy-efficient motor vehicles is governed by Tenn. Code Ann. § 4-3-1109, which requires the following:

- Each year, every effort should be made to achieve a target goal that one hundred percent (100%) of newly purchased passenger motor vehicles be energy-efficient or alternative fuel motor vehicles.
- The department shall ensure that at least twenty-five percent (25%) of newly purchased passenger motor vehicles procured for use in areas designated by the United States Environmental Protection Agency (EPA) as nonattainment areas shall be hybrid electric vehicles or vehicles powered by natural gas; provided that such vehicles and fueling infrastructure are available at the time of procurement and such vehicles are purchased at competitive prices. If such vehicles or fueling infrastructure are unavailable at the time of procurement, the department may meet this mandate by procuring compact fuel-efficient vehicles.
- In areas not designated by the EPA as nonattainment areas, the department shall ensure that at least twenty-five percent (25%) of newly purchased passenger motor vehicles are hybrid electric vehicles, vehicles powered by natural gas, or compact fuel-efficient vehicles, provided, that such vehicles are purchased at competitive prices.

As of December 2022, the only area designated by the EPA as nonattainment in Tennessee is Sullivan County. Source: <https://www3.epa.gov/airquality/greenbook/ancl.html#tn>

Tenn. Code Ann. § 4-3-1109 defines a passenger motor vehicle as a motor vehicle designed for carrying six (6) or fewer adult passengers and used for the transportation of persons, provided that vans, including cargo vans, trucks, sport utility vehicles, and police pursuit vehicles, shall not be considered passenger motor vehicles.

Tenn. Code Ann. § 4-3-1109 further defines an energy-efficient motor vehicle as a passenger motor vehicle that is:

- An alternative fuel vehicle as defined by the Energy Policy Act of 1992 (Public Law 102-486);
- A flexible-fuel vehicle (FFV) utilizing ethanol, biodiesel, or any other commercially available alternative fuel approved by the United States Department of Energy;
- A hybrid electric vehicle (HEV);
- A compact fuel-efficient vehicle, defined as a vehicle powered by unleaded gasoline that has a United States EPA estimated highway gasoline mileage rating of at least twenty-five miles per gallon (25 mpg) or greater for the model year purchased;
- An electric vehicle (EV);
- A vehicle powered by natural gas; or

- A vehicle powered by ultra-low sulfur diesel fuel that meets Bin 5, Tier II emission standards mandated by the EPA and has an EPA estimated highway mileage rating of at least thirty miles per gallon (30 mpg) or greater for the model year purchased.

## REPORTING REQUIREMENTS

In accordance with Tenn. Code. Ann. § 4-3-1109, this report provides information on the procurement of energy-efficient motor vehicles for the fiscal year 2022. The Code requires information to be compiled and maintained on the nature of passenger motor vehicles that are owned by the State, including the number of passenger vehicles purchased during the fiscal year categorized by energy efficiency and the number of passenger motor vehicles owned as of June 30 of each year categorized by energy efficiency.

Additionally, in accordance with Tenn. Code Ann. § 4-3-1109, the report shall include:

- Problems or concerns the state may have experienced in meeting the target goal set relative to obtaining such energy-efficient motor vehicles;
- Any savings or increased expenditures to the state in the purchase of, as well as the operation and maintenance cost of, such motor vehicles;
- Plans for integrating energy-efficient motor vehicles into the state passenger motor vehicle fleet;
- The volume of gasoline or diesel displaced by the usage of energy-efficient or alternative fuel vehicles; and
- The emissions reduction achieved using energy-efficient or alternative fuel vehicles.

# VEHICLE AND ASSET MANAGEMENT ANALYSIS

## **State of Tennessee Fleet**

As of June 30, 2022, the State of Tennessee owned 194 energy-efficient passenger motor vehicles. All vehicles in the category are either electric or fuel-based, with all fuel-based vehicles achieving at least 25 MPG on the highway. Below are some subcategories within the total:

<b>Energy Efficient Category</b>	<b>Number of Vehicles</b>
Flex Fuel (FFV)	97
Hybrid	0
Electric	3
>25 MPG Highway	94
	<b>194</b>

## **FY 2022 Acquisitions**

During the fiscal year 2022, the State purchased 15 passenger vehicles, all of which were energy efficient. The following table lists the make and models purchased.

<b>Vehicle Description</b>	<b>Number Purchased</b>
Toyota Camry	15
<b>TOTAL</b>	<b>15</b>

## **Additional Information**

- In recent years, the EPA and the National Highway Traffic Safety Administration (NHTSA) have established fuel economy standards for light-duty passenger vehicles that require manufacturers to meet stringent fuel economy standards. As a result, Vehicle and Asset Management (VAM) will continue to meet the goal of one hundred percent (100%) procurement of energy-efficient passenger motor vehicles. However, due to these requirements, there are no comparable models to estimate emissions reductions achieved by using energy-efficient vehicles over non-energy-efficient vehicles.
- Much emphasis is being placed on electric vehicles (EVs) at the federal level. While this technology is promising, its availability for fleet application is still limited. Most new EVs are premium offerings and are not cost-effective or functional for many of our State's needs. However, every year VAM has, and will continue to, evaluate every offering from the OEMs and determine if any are a good purchase for State government. Due to supply chain issues, all manufacturers are limiting their offerings to government fleets. We anticipate this trend continuing for a least the next year.