

Electric Vehicle Population Data

Transportation

This dataset shows the Battery Electric Vehicles (BEVs) and Plug-in Hybrid Electric Vehicles (PHEVs) that are currently registered through Washington State Department of Licensing (DOL).


Last Updated  
April 18, 2024

Data Provided By  
Washington State Department of Licensing


Featured Content Using this Data

 Electric Vehicle Population  
Public  
Map - by Postal Code


April 18, 202411.4K Views




This dataset aims to show the currently registered Battery Electric Vehicles (BEVs) and Plug-in Hybrid Electric Vehicles (PHEVs) throughout Washington...

 Electric Vehicles By County  
Public


April 18, 202410.4K Views



This dataset aims to show the currently registered Battery Electric Vehicles (BEVs) and Plug-in Hybrid Electric Vehicles (PHEVs) throughout Washington...

 Most Common Registered  
Public  
Electric Vehicle Models

April 18, 20245,305 Views



This dataset aims to show the currently registered Battery Electric Vehicles (BEVs) and Plug-in Hybrid Electric Vehicles (PHEVs) throughout Washington...

About this Dataset

Updated  
**April 18, 2024**

Data Last Updated  
April 18, 2024

Metadata Last Updated  
April 18, 2024

Date Created  
April 16, 2019

Views  
**54.3K**

Downloads  
**250K**

Data Provided by  
Washington State Department of Licensing

Dataset Owner  
Department of Licensing

Identification

Originator	Research and Analysis Office, Department of Licensing
Metadata Language	English

Notes

1.

A Battery Electric Vehicle (BEV) is an all-electric vehicle using one or more batteries to store the electrical energy that powers the motor and is charged by plugging the vehicle in to an electric power source. A Plug-in Hybrid Electric Vehicle (PHEV) is a vehicle that uses one or more batteries to power an electric motor; uses another fuel, such as gasoline or diesel, to power an internal combustion engine or other propulsion source; and is charged by plugging the vehicle in to an electric power source.

2.

Clean Alternative Fuel Vehicle (CAFV) Eligibility is based on the fuel requirement and electric-only range requirement as outlined in RCW 82.08.809 and RCW 82.12.809 to be eligible for Alternative Fuel Vehicles retail sales and Washington State use tax exemptions. Sales or leases of these vehicles must occur on or after 8/1/2019 and meet the purchase price requirements to be eligible for Alternative Fuel Vehicles retail sales and Washington State use tax exemptions.

3.

Monthly count of vehicles for a county may change from this report and prior reports. Processes were implemented to more accurately assign county at the time of registration.

4.

Electric Range is no longer maintained for Battery Electric Vehicles (BEV) because new BEVs have an electric range of 30 miles or more. Zero (0) will be entered where the electric range has not been researched.

Temporal

Period of Time	Data includes Battery Electric Vehicles and Plug-in Hybrid Electric Vehicles registered as of March 31, 2024.
Posting Frequency	Monthly

Topics

Category	Transportation
Tags	tesla, leaf, nissan, model 3, dol, department of licensing, green report, ev, evs, phev, phevs, bev, bevs, electric, hybrid, vehicle, plug-in, volt, bolt, chevy, chevrolet, car, environment, clean energy, population, hybrids, plug-ins, vehicles, cars, energy, nhtsa, rao_open_data, dol_open_data, rao_ev, rao_veh

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Licensing and Attribution

License	Open Data Commons Open Database License
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What's in this Dataset?

Rows  
**181K**

Columns  
**17**

Each row is a  
**Vehicle**

Columns in this Dataset

Column Name	Description	Type
VIN (1-10)	The 1st 10 characters of each vehicle's Vehicle Identification Number (VIN).	Plain Text T
Data Type <a href="#">Text</a>	API Field Name vin_1_10	
County	This is the geographic region of a state that a vehicle's owner is listed to reside within. Vehicles registered in Washington state may be located in other states.	Plain Text T
Data Type <a href="#">Text</a>	API Field Name county	
City	The city in which the registered owner resides.	Plain Text T
Data Type <a href="#">Text</a>	API Field Name city	
State	This is the geographic region of the country associated with the record. These addresses may be located in other states.	Plain Text T
Data Type <a href="#">Text</a>	API Field Name state	
Postal Code	The 5 digit zip code in which the registered owner resides.	Plain Text T
Data Type <a href="#">Text</a>	API Field Name zip_code	
Model Year	The model year of the vehicle, determined by decoding the Vehicle Identification Number (VIN).	Plain Text T
Data Type <a href="#">Text</a>	API Field Name model_year	
Make	The manufacturer of the vehicle, determined by decoding the Vehicle Identification Number (VIN).	Plain Text T
Data Type <a href="#">Text</a>	API Field Name make	
Model	The model of the vehicle, determined by decoding the Vehicle Identification Number (VIN).	Plain Text T
Data Type <a href="#">Text</a>	API Field Name model	
Electric Vehicle Type	This distinguishes the vehicle as all electric or a plug-in hybrid.	Plain Text T
Data Type <a href="#">Text</a>	API Field Name ev_type	
Clean Alternative Fuel Vehicle (CAFV) Eligibility	This categorizes vehicle as Clean Alternative Fuel Vehicles (CAFVs) based on the fuel requirement and electric-only range requirement in House Bill 2042 as passed in the 2019 legislative session.	Plain Text T
Data Type <a href="#">Text</a>	API Field Name caf_v_type	
Electric Range	Describes how far a vehicle can travel purely on its electric charge.	Number #
Data Type <a href="#">Number</a>	API Field Name electric_range	
Base MSRP	This is the lowest Manufacturer's Suggested Retail Price (MSRP) for any trim level of the model in question.	Number #
Data Type <a href="#">Number</a>	API Field Name base_msrp	
Legislative District	The specific section of Washington State that the vehicle's owner resides in, as represented in the state legislature.	Plain Text T
Data Type <a href="#">Text</a>	API Field Name legislative_district	
DOL Vehicle ID	Unique number assigned to each vehicle by Department of Licensing for identification purposes.	Plain Text T
Data Type <a href="#">Text</a>	API Field Name dol_vehicle_id	
Vehicle Location	The center of the ZIP Code for the registered vehicle.	Point 📍
Data Type <a href="#">Point</a>	API Field Name geocoded_columnn	
Electric Utility	This is the electric power retail service territories serving the address of the registered vehicle. All ownership types for areas in Washington are included: federal, investor owned, municipal, political subdivision, and cooperative. If the address for the registered vehicle falls into an area with overlapping electric power retail service territories then a single pipe   delimits utilities of same TYPE and a double pipe    delimits utilities of different types. We combined vehicle address and Homeland Infrastructure Foundation Level Database (HIFLD) ( <a href="https://gii.dhs.gov/HIFLD">https://gii.dhs.gov/HIFLD</a> ) Retail_Service_Territories feature layer using a geographic information system to assign values for this field. Blanks occur for vehicles with addresses outside of Washington or for addresses falling into areas in Washington not containing a mapped electric power retail service territory in the source data.	Plain Text T
Data Type <a href="#">Text</a>	API Field Name electric_utility	
2020 Census Tract	The census tract identifier is a combination of the state, county, and census tract codes as assigned by the United States Census Bureau in the 2020 census, also known as Geographic Identifier (GEOID). More information can be found here: <a href="https://www.census.gov/programs-surveys/geography/about/glossary.html#par_textimage_13">https://www.census.gov/programs-surveys/geography/about/glossary.html#par_textimage_13</a> <a href="https://www.census.gov/programs-surveys/geography/guidance/geo-identifiers.html">https://www.census.gov/programs-surveys/geography/guidance/geo-identifiers.html</a>	Plain Text T
Data Type <a href="#">Text</a>	API Field Name _2020_census_tract	

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Dataset Changelog

No changes have been archived yet