

Electric Vehicles

There's never been a better time to buy an EV.

It's an electrifying age for cars with cleaner, simpler technologies replacing expensive visits to the gas station.

Electric vehicles (EVs) are cars powered by electricity stored in a rechargeable battery. Driving electric comes with a range of benefits: instant acceleration, a quiet drive, and zero tailpipe pollution. And since EVs are efficient and need minimal maintenance, they also save their owners money.

Many car manufacturers recognize the end of the combustible engine is on the horizon and are getting on board: BMW, Chevrolet, Ford, Honda, Hyundai, Toyota, Mercedes, Mitsubishi, Nissan, Subaru, Volkswagen, and Tesla all make EVs. Consumers have more size and style choices than ever, from minivans and SUVs to roadsters and sedans.

EVs in Washington

Washington has one of the highest percentages of electric vehicle sales in the nation, and is now close to its goal of registering 50,000 EVs statewide.

What's the difference between a hybrid and an electric vehicle?



BATTERY ELECTRIC VEHICLE (BEV)

all-electric

large battery

needs to be plugged in

example: Nissan LEAF



PLUG-IN HYBRID VEHICLE (PHEV)

electric with a gas backup

medium-sized battery

can be plugged in

example: Chrysler Pacifica



HYBRID VEHICLE

gas with electric assist

small battery

can't be plugged in

example: Toyota Prius

EVs Make Cents

- Electric vehicles are 3-4 times more fuel efficient than gasoline cars. In fact, most EVs are able to achieve the equivalent of over 100 miles per gallon.
- Washington has some of the lowest electricity rates in the nation, which means it only costs 2-3 cents per mile to drive electric.
- EVs are cheaper to maintain. Fewer moving parts = less maintenance = less \$\$ (and time) at the auto mechanic.
- You can receive a federal tax credit of \$2,500 - \$7,500 for purchasing a new EV.
- Starting in August 2019, EVs that can travel at least 30 miles on battery power are not subject to Washington's state sales and use tax. The tax exemption applies to new cars less than \$45,000, up to the first \$25,000. Used EVs less than \$30,000 are also eligible, up to the first \$15,000.

EVs Go The Same Distance For Less



'eGallon' vs Gallon of Gasoline in Washington
From U.S. Department of Energy, eGallon

EVs Are Convenient

- Full charge = full tank. Leave the house each day ready to roll with a fully-charged battery.
- Newer all-electric cars can travel at least 100 miles on a single charge; some can go more than 250 miles!
- An ever-expanding network of charging stations makes driving EVs more convenient than ever. Our state has the fifth highest number of public charging stations in the nation – and more coming online each year.

EVs Have Zero Tailpipe Pollution

- EVs don't even have tailpipes! They don't produce any greenhouse gases or toxic air pollution. Compare that with a gasoline car, which produces 20 pounds of pollution per gallon burned.



90% of drivers in the U.S. travel less than 50 miles per day – easily covered by today's EVs.

Learn More

Electric vehicle information:

- pluginamerica.org
- goelectricdrive.com

Available electric vehicles:

- plugincars.com
- afdc.energy.gov/vehicles/electric

Charging stations

- afdc.energy.gov/stations
- plugshare.com
- westcoastgreenhighway.com