

The Basics: Electric Vehicles

THINKING ABOUT SWITCHING TO AN ELECTRIC VEHICLE (EV)?

You're not alone! More people in Saskatoon are choosing EVs. According to 2023 Stats Canada data, 401 new EVs were registered, growing from 84 new EVs in 2019. The trend shows that EVs are becoming a popular choice in the city!



What is a zero-emission or electric vehicle?

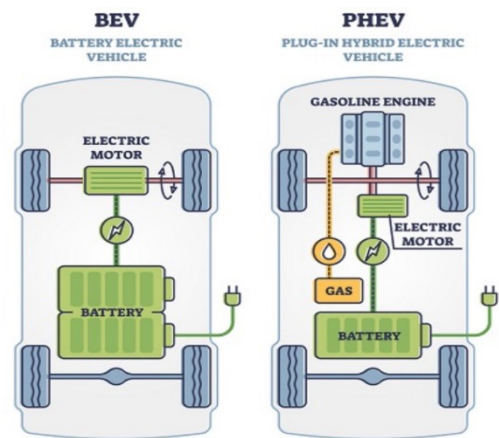
Electric vehicles, or EVs, are a type of Zero-Emission Vehicle (ZEV). ZEVs are vehicles or equipment that produce no tailpipe emissions and use alternative power sources, such as electricity or hydrogen.

They can include passenger vehicles, buses, trucks, motorcycles, bicycles, and other equipment.

Types of ZEV

Battery Electric Vehicles (BEVs) – run fully on electricity, with no tail-pipe emissions, and are charged by plugging into electric chargers.

Plug-in Hybrid Electric Vehicles (PHEVs) – have both an internal combustion engine (ICE) and an electric motor. They use both electricity (charged by plugging in) and gasoline/diesel. They produce zero tailpipe emissions when using the electric motor.



Fuel Cell Electric Vehicles (FCEVs) – use hydrogen as fuel, emitting only water vapor. FCEVs are less available than BEVs and PHEVs due to the lack of refueling stations and higher cost. They are also known as Hydrogen vehicles.



Why are EVs important?

- EVs drive Saskatoon toward net-zero.
- No tailpipe pollutants, healthier communities.
- Cheaper fuel and less maintenance.
- Government mandated — All new cars electric by 2035.

Thinking of purchasing an EV?

Consider how you plan to use your vehicle and ask these questions from the dealership:

Battery range: How long can the EV go on a single charge?

Charging speed: How fast can the vehicle be charged at a fast charger?

Cost: Canadian Automobile Association (CAA) provides a calculator to compare models of electric, hybrid, and gas vehicles operating costs.

Visit: <https://carcosts.caa.ca>

Safety and reviews: EVs are considered as safe, and sometimes safer, than gas vehicles but checking specific stats and reviews can be helpful.

Where can I charge my EV in Saskatoon?

Most EV owners charge their cars at home but still might need to top up while at work or public places. Public EV charging ports can be found in over 50 locations in Saskatoon. To locate the nearest charger, check out these websites:

- <https://www.plugshare.com>
- <https://chargehub.com/en>



For more information on myths and facts, charging, and more, visit the following links on saskatoon.ca.

- [Saskatoon.ca/EV](https://saskatoon.ca/EV)
- [Saskatoon.ca/MurbEv](https://saskatoon.ca/MurbEv)
- [Saskatoon.ca/CityEV](https://saskatoon.ca/CityEV)