



QUICK FACTS

EVs can handle Canadian winters

EVs are safe and effective in Edmonton winters. EV range can be reduced in cold weather but is still well within the average Edmonton trip distances.

EVs reduce emissions

Up to 33% fewer emissions than a gas car.

EVs go the distance

170+ km on a single charge.

EVs are for everyone

25+ models available in Canada at every price point, in all shapes and sizes (compact, full size, minivan, SUV).

EVs save money

\$1,900 annual savings on fuel and maintenance. It costs about \$600 a year to "fuel" an EV versus \$1,600 a year for a compact gasoline car.

Travel Distance on a Full Charge



9 km (average car trip)*

*Edmonton and Region Household Travel Survey



and follow us on Facebook or Twitter @GreenYEG.
Visit edmonton.ca/electricvehicles

WANT TO LEARN MORE?

Testimonial from EV owner in Edmonton

Once you transition to an EV, there is no going back... Would you give up your smart phone for a rotary wall phone?

ELECTRIC VEHICLES IN EDMONTON



CHARGING UP! EDMONTON'S ELECTRIC VEHICLE STRATEGY

The City of Edmonton is developing an Electric Vehicle Strategy that will identify how we can make it easier for people to own an electric vehicle (EV). The Strategy is an important part of Edmonton's Community Energy Transition.

Shifting to active modes of transportation and transit are the best ways to reduce our environmental impact from transportation. But as cars continue to be a part of Edmonton's transportation system, we need to think about how we can shift towards greener vehicles.



WHY ELECTRIC VEHICLES?

Transportation is responsible for 30% of Edmonton's greenhouse gas (GHG) emissions and 42% of energy consumption. This is equal to all the energy used for residential and commercial buildings.

Alberta is phasing out coal powered electricity and ushering in renewables. Greening our electricity grid means an electric vehicle in Alberta can only get greener over its lifetime! Even with Alberta's current electricity grid EVs can reduce emissions compared to a gas car.

Using electricity as a fuel source reduces our reliance on any single form of vehicle fuel. Electricity can be generated locally and in many ways including by solar, wind, hydro and geothermal systems.



TYPES OF ELECTRIC VEHICLES

FULLY ELECTRIC

Use only electricity

Zero tailpipe emissions

Cheap to operate and maintain

PLUG-IN HYBRID

Use electricity and gas

Has an electrical range of between 20 to 80 km before gas engine takes over

Cheaper to operate than other hybrid cars



CHARGING YOUR RIDE

On average, it takes about 4 to 6 hours to charge from empty to full. With the ability to "fuel up" at home, you're always able to top up – just like plugging in your phone!

AT HOME

You can charge your EV at home by plugging into a **regular 120V wall outlet** or by installing a **home charging station**. A home charging station requires a 240V electrical outlet similar to a clothes dryer plug. Having a charging station cuts down on charging time (compared to charging from a wall outlet) and is easy to install by an electrician. Cost: \$800 to \$1,200 plus installation.

Charging Time + Cost (mid-size fully electric vehicle)



This works out to be about 3¢ per km.

ON THE ROAD

Edmonton has **13 locations** that offer EV charging, the majority of which are **free**. Canada has 4,000+ stations at 3,000+ locations.

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- 1 The King's University College
 - 2 University of Alberta Stadium Park
 - 3 Edmonton Public Library / Jasper Place Branch
 - 4 Southgate Centre
 - 5 Edmonton Public Library / Mill Woods Branch
 - 6 Canadian Tire / South Edmonton Common
 - 7 Ikea / South Edmonton Common
 - 8 MEC / South Edmonton Common
 - 9 The Mosaic Centre
 - 10 Allendale Professional Centre
 - 11 Edmonton Community Foundation
 - 12 MEC in the Brewery District
 - 13 Simons / Londonderry Mall

There are mobile apps to help you find a charging station:
ChargeHub + PlugShare + CAA