

Ready, Set, Go *Green*

Electric Vehicles (EVs) are critical to reducing greenhouse gas emissions. Using Canada's wealth of clean hydroelectricity to charge EVs, we can improve air quality, reduce our dependence on oil and ensure a sustainable and cost-effective way to travel.

Why should I consider an Electric Car?

EVs offer a wealth of benefits. They are fun to drive and offer range, speed and performance never seen before. EVs are approximately one-quarter of the expense to operate than traditional cars and you can eliminate inconvenient gas station visits by simply charging your vehicle from a standard wall outlet at home or from one of the growing number of public charging stations. Most of all, you are helping the planet as electric vehicles produce zero to near-zero tailpipe emissions.

Which Electric Car is Best for Me?

If you travel less than 40 kms per day, a pure battery-electric vehicle may be the best choice as you can charge daily at home from a standard wall outlet. For single-vehicle families who want the option of extended range, choose a plug-in hybrid or conventional hybrid electric car.

How will I charge my Electric Car?

Most charging can be done at home, however offices and public charging stations are being implemented in major cities across Canada. In Vancouver for instance, new building regulations require an electric charging infrastructure to be installed in all new single-family homes and 20% of parking stalls in new condo buildings. Provincial utilities are also installing charging stations at well-used public locations.

Where Can I Buy an Electric Car?

As early as 2011, a range of new generation electric cars will be available from major automakers:

- Nissan Leaf: The Leaf is an all-electric five-seat hatchback that will have a range of up to 160 km between charges.
- Chevrolet Volt: This 4-passenger compact plug-in hybrid can run 65 kms on electric power and travel 500+ kms between gas station fill-ups.
- Mitsubishi i-MiEV: This 4-seat battery electric car has a 130-160 km range.

How Can I Learn More about Electric Vehicles?

If you want to kick the tires of the electric cars or learn more about the EV market, we invite you to visit Canada's **EV 2010 VÉ Conference "Public Days"** at the Sheraton Wall Centre Hotel on Wednesday, September 15th between 6:00-9:00 pm.

What Are Electric Cars?

Electric cars – including battery electrics, plug-in hybrids and hybrid vehicles – use electricity wholly or partly for powering vehicles. High-performance batteries store the electricity on-board the vehicle and use an electric motor to power the car.

Battery electric vehicles (BEVs) use electricity stored in a battery to power an electric motor that turns the wheels. The battery is recharged by connecting or plugging it into a wall socket or other electrical source, such as a solar panel.

Hybrids (HEVs) utilize a battery as well as a combustion engine. The engine is used to propel the vehicle and to recharge the batteries. The battery is used for initial acceleration and to power accessories (i.e. air conditioning) during traffic stops when the engine typically shuts off.

Plug-in hybrids (PHEVs) combine both a battery and combustion engine, but they have a much larger all-electric range compared to HEVs. PHEVs allow you to plug-in or "top-up" the battery using less expensive electricity versus gasoline.



Electric Mobility Canada, a national not-for-profit organization, promotes the use of electric vehicles as an important solution to Canada's energy and environmental issues, but does not endorse any particular manufacturer or vehicle.

This information is provided to assist potential EV buyers to learn more about the choices available.

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