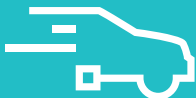


ELECTRIFY YOUR RIDE



PLUG 'N DRIVE

plugndrive.ca
info@plugndrive.ca
647-717-6941

July 2017



**Plug'n Drive Thanks
Our 2017
EV Roadshow Sponsor**

**ONTARIOPOWER
GENERATION**

**Ontario's Largest
Clean Energy Provider**



Towards a Lower Carbon Future

In 2014, OPG burned its last piece of coal to make electricity.

This was, and continues to be, the largest single action to combat climate change in North America.

Today, we provide about half of the electricity used in Ontario and our power is more than 99 per cent free of smog and greenhouse gas emissions.

We're proud of this achievement, and we believe using clean electrons to power our cars, trains and buses is the next big climate change victory for Ontario.

To this end, OPG has developed an electrification strategy, which supports the province in reaching its Climate Change Action Plan goals.

www.opg.com

EVs Save Money



\$1,900

ANNUAL SAVINGS ON
FUEL AND MAINTENANCE

Up to \$15,000

AVAILABLE IN
GOVERNMENT INCENTIVES

EVs Go The Distance



200+ km

ON A SINGLE CHARGE

Fully Charge

AT HOME OVERNIGHT

EVs Reduce Emissions



Up to 90%

FEWER EMISSIONS
THAN A GAS CAR

EVs Are For EVeryone



25+ Models

AT EVERY PRICE POINT

All Shapes and Sizes

COMPACT, SUB-COMPACT, FULL SIZE
MINIVAN, SUV, SPORTS UTILITY

FULLY ELECTRIC CARS

- Only Use Electricity!
- Zero Tailpipe Emissions!
- Cheap to Operate and Maintain!



- BMW i3
- Chevrolet BOLT
- Ford Focus Electric
- Hyundai IONIQ Electric
- Kia Soul Electric
- Mitsubishi i-MiEV
- Nissan LEAF
- Tesla Model S
- Tesla Model X
- Volkswagen e-Golf

The following pages include a cost to drive and emissions comparison between an electric car and a gas car equivalent. All data is calculated by Plug'n Drive with these variables:

- NRCan's 2017 Fuel Efficiency Figures
- A gasoline price of \$1.05/Litre
- Ontario's off-peak electricity rates
- Ontario's off-peak electricity generation mix
- An average annual driving distance of 20,000 km
- All values have been rounded to the nearest 10



i3

Electric Range
183 km

\$47,500
Starting MSRP | Before Taxes

UP TO
- \$13,000
Ontario Incentive

Annual Charge Cost

\$450

vs.

\$1,900 - Gas Car
(Subcompact)

Annual Emissions

300 kg

vs.

4,400 kg - Gas Car
(Subcompact)

Full Charge
From Empty

L1 (Wall Outlet) - 23 Hours
L2 (Charging Station) - 5 Hours
L3 (Quick Charger) - 40 Minutes



\$42,895

Starting MSRP | Before Taxes

UP TO
- \$14,000
Ontario Incentive

Annual Charge Cost

\$450

vs.

\$1,800 - Gas Car
(Station Wagon)



BOLT

Electric Range
383 km

Annual Emissions

300 kg

vs.

4,000 kg - Gas Car
(Station Wagon)

Full Charge
From Empty

L1 (Wall Outlet) - 42 Hours
L2 (Charging Station) - 9.5 Hours
L3 (Quick Charger) - 1 Hour





Go Further

Focus Electric

Electric Range
185 km

\$31,498

Starting MSRP | Before Taxes

- \$14,000

Ontario Incentive

Annual Charge Cost

\$570

vs.

\$1,870 - Gas Car
(Compact)

Annual Emissions

320 kg

vs.

4,400 kg - Gas Car
(Compact)

Full Charge
From Empty

L1 (Wall Outlet) - 23 Hours
L2 (Charging Station) - 5.5 Hours
L3 (Quick Charger) - 30 Minutes



TBD

Starting MSRP | Before Taxes

- \$14,000

Ontario Incentive

Annual Charge Cost

\$430

vs.

\$2,170 - Gas Car
(Midsize)

Annual Emissions

260 kg

vs.

4,860 kg - Gas Car
(Midsize)

Full Charge
From Empty

L1 (Wall Outlet) - 19 Hours
L2 (Charging Station) - 4.5 Hours
L3 (Quick Charger) - 35 Minutes



HYUNDAI

IONIQ Electric

Electric Range
170 km



Soul Electric

Electric Range
150 km

\$35,395

Starting MSRP | Before Taxes

- \$14,000

Ontario Incentive

Annual Charge Cost

\$570

vs.

\$1,720 - Gas Car
(Station Wagon)

Annual Emissions

320 kg

vs.

4,040 kg - Gas Car
(Station Wagon)

Full Charge
From Empty

L1 (Wall Outlet) - 19 Hours
L2 (Charging Station) - 4 Hours
L3 (Quick Charger) - 25 Minutes



\$27,998

Starting MSRP | Before Taxes

\$10,000

Ontario Incentive

Annual Charge Cost

\$530

vs.

\$1,910 - Gas Car
(Subcompact)

Annual Emissions

300 kg

vs.

4,480 kg - Gas Car
(Subcompact)

Full Charge
From Empty

L1 (Wall Outlet) - 11 Hours
L2 (Charging Station) - 7 Hours
L3 (Quick Charger) - 20 Minutes



i-MiEV

Electric Range
100 km



LEAF

Electric Range
172 km

\$32,698
Starting MSRP | Before Taxes

\$14,000
Ontario Incentive

Annual Charge Cost

\$530
vs.

\$2,070 - Gas Car
(Midsize)

Annual Emissions

300 kg
vs.

4,860 kg - Gas Car
(Midsize)

Full Charge
From Empty

L1 (Wall Outlet) - 21 Hours
L2 (Charging Station) - 6 Hours
L3 (Quick Charger) - 30 Minutes



\$92,500

Starting MSRP | Before Taxes

- \$14,000
Ontario Incentive

Annual Charge Cost

\$640
vs.

\$2,490 - Gas Car
(Full Size)

Annual Emissions

360 kg
vs.

4,880 kg - Gas Car
(Full Size)

Full Charge
From Empty

L1 (Wall Outlet) - 42 Hours
L2 (Charging Station) - 10 Hours
L3 (Quick Charger) - 1 Hour



TESLA

Model S

Electric Range
60 kWh: 338 km
75 kWh: 400 km
90 kWh: 473 km
100 kWh: 507 km

TESLA

Model X

Electric Range

75 kWh: 381 km

90 kWh: 413

100 kWh: 475 km

\$116,200

Starting MSRP | Before Taxes

- \$14,000

Ontario Incentive

Annual Charge Cost

\$660

vs.

\$2,460 - Gas Car
(SUV)

Annual Emissions

380 kg

vs.

5,780 kg - Gas Car
(SUV)

**Full Charge
From Empty**

L1 (Wall Outlet) - 52 Hours
L2 (Charging Station) - 12 Hours
L3 (Quick Charger) - 1 Hour



\$36,000

Starting MSRP | Before Taxes

- \$14,000

Ontario Incentive

Annual Charge Cost

\$480

vs.

\$1,870 - Gas Car
(Compact)

Annual Emissions

280 kg

vs.

4,400 kg - Gas Car
(Compact)

**Full Charge
From Empty**

L1 (Wall Outlet) - 25 Hours
L2 (Charging Station) - TBD
L3 (Quick Charger) - 45 Minutes



VOLKSWAGEN

e-Golf

Electric Range
201 km

FULLY ELECTRIC CARS

COMING SOON!

TESLA



Tesla Model 3



smart fortwo Electric
(Redesigned)

NOTES

FULLY CHARGE YOUR EV With a Home Charging Station

- Cuts charging time down
- Similar to a clothes dryer plug at 240V
- Easy to install
- \$800-\$1,200 to buy
- Government incentives offer up to \$1,000 off purchase and installation

VISIT [CHARGEMYCAR.CA](https://www.chargemycar.ca)

- 1 Choose from Canada's largest selection
- 2 Buy through the online store
- 3 Find an electrician for the installation



HOME CHARGING STATIONS



PUBLIC CHARGING STATIONS

**CHARGE AT ONE OF CANADA'S
4,000+ STATIONS AT 3,000+ LOCATIONS**

Level

2 Top-up your EV while shopping or dining

Level

3 Fully charge your EV in 20-40 minutes

ONTARIO'S CHARGING INFRASTRUCTURE

In 2016, the Province of Ontario invested \$20 million in public charging stations, including **274 Level 2** and **211 Level 3**.

**FIND A CHARGING STATION NEAR YOU
WITH THESE MOBILE APPS**



PLUG-IN HYBRID ELECTRIC CARS

- **Use Electricity and Gas!**
- **Have Electric Only Driving Modes!**
- **Cheaper to Operate Than Hybrid Cars!**

The following pages include a cost to drive and emissions comparison between a plug-in hybrid electric car and a gas car equivalent. All data is calculated by Plug'n Drive with these variables:

- NRCan's 2017 Fuel Efficiency Figures
- The first 20-80 km (depending on model) of every 100 km trip is assumed to be fully electric with the remaining distance assumed to be gasoline
- A gasoline price of \$1.05/Litre
- Ontario's off-peak electricity rates
- Ontario's off-peak electricity generation mix
- An average annual driving distance of 20,000 km
- All values have been rounded to the nearest 10

- Audi A3 Sportback e-tron
- BMW i3 REX
- BMW i8
- BMW 330e
- BMW 740Le xDrive
- BMW X5 xDrive 40e
- Chevrolet VOLT
- Chrysler Pacifica PHEV
- Ford C-Max Energi
- Ford Fusion Energi
- Hyundai IONIQ PHEV
- Hyundai Sonata PHEV
- Kia Optima PHEV
- Mercedes GLE 550e
- Mercedes S 550e
- Porsche Cayenne S E Hybrid
- Porsche Panamera S E Hybrid
- Volvo XC90 T8 Twin-Engine





Audi

A3 Sportback e-tron

Electric Range
26 km

Gasoline Range
579 km

\$45,900

Starting MSRP | Before Taxes

UP TO
- \$8,095

Ontario Incentive

Annual Charge/Fuel Cost

\$1,220

vs.

\$1,970 - Gas Car
(Compact)

Annual Emissions

280 kg

vs.

4,400 kg - Gas Car
(Compact)

Full Charge
From Empty

L1 (Wall Outlet) - 6 Hours
L2 (Charging Station) - 2.5 Hours



i3 REX

Electric Range
156 km

Gasoline Range
129 km

\$52,000

Starting MSRP | Before Taxes

UP TO
- \$13,000

Ontario Incentive

Annual Charge/Fuel Cost

\$680

vs.

\$1,800 - Gas Car
(Subcompact)

Annual Emissions

920 kg

vs.

4,040 kg - Gas Car
(Subcompact)

Full Charge
From Empty

L1 (Wall Outlet) - 23 Hours
L2 (Charging Station) - 5 Hours
L3 (Quick Charger) - 35 Minutes





i8

Electric Range
24 km

Gasoline Range
509 km

\$149,800

Starting MSRP | Before Taxes

UP TO
\$3,000

Ontario Incentive

Annual Charge/Fuel Cost

\$1,510

vs.

\$ 3,050 Gas Car
(Sports Car)

Annual Emissions

3,100 kg

vs.

6,840 kg - Gas Car
(Sports Car)

Full Charge From Empty **L1 (Wall Outlet) - 6 Hours**
L2 (Charging Station) - 2 Hours



330e

Electric Range
23 km

Gasoline Range
557 km

\$52,100

Starting MSRP | Before Taxes

UP TO
- \$7,730

Ontario Incentive

Annual Charge/Fuel Cost

\$1,380

vs.

\$1,970 Gas Car
(Compact)

Annual Emissions

2,780 kg

vs.

4,400 kg - Gas Car
(Compact)

Full Charge From Empty **L1 (Wall Outlet) - 6 Hours**
L2 (Charging Station) - 2 Hours





740Le xDrive

Electric Range
23 km

Gasoline Range
525 km

\$107,900

Starting MSRP | Before Taxes

UP TO
-\$3,000
Ontario Incentive

Annual Charge/Fuel Cost

\$1,430

vs.

\$2,180 Gas Car
(Full-Size)

Annual Emissions

3,160 kg

vs.

4,880 kg - Gas Car
(Full-Size)

Full Charge From Empty **L1 (Wall Outlet) - 6 Hours**
L2 (Charging Station) - 3 Hours



X5 xDrive 40e

Electric Range
23 km

Gasoline Range
846 km

\$74,000

Starting MSRP | Before Taxes

UP TO
-\$8,460
Ontario Incentive

Annual Charge/Fuel Cost

\$2,070

vs.

\$2,460 Gas Car
(SUV)

Annual Emissions

3,720 kg

vs.

5,780 kg - Gas Car
(SUV)

Full Charge From Empty **L1 (Wall Outlet) - 6 Hours**
L2 (Charging Station) - 3 Hours





VOLT

Electric Range
85 km

Gasoline Range
590 km

\$38,590
Starting MSRP | Before Taxes

UP TO
- \$14,000
Ontario Incentive

Annual Charge/Fuel Cost

\$650

VS.

\$1,870 Gas Car
(Compact)

Annual Emissions

680 kg

VS.

4,400 kg - Gas Car
(Compact)

Full Charge From Empty **L1 (Wall Outlet) - 13 Hours**
L2 (Charging Station) - 4.5 Hours



\$56,495
Starting MSRP | Before Taxes

UP TO
- \$14,000
Ontario Incentive

Annual Charge/Fuel Cost

\$1,090

VS.

\$2,600 Gas Car
(Minivan)



Pacifica PHEV

Electric Range
53 km

Gasoline Range
858 km

Annual Emissions

1,860 kg

VS.

5,820 kg - Gas Car
(Minivan)

Full Charge From Empty **L1 (Wall Outlet) - 11 Hours**
L2 (Charging Station) - 2.5 Hours





Go Further

C-Max Energi

Electric Range
33 km

Gasoline Range
884 km

\$29,328

Starting MSRP | Before Taxes

UP TO
- \$7,730
Ontario Incentive

Annual Charge/Fuel Cost

\$1,020

VS.

\$2,066 Gas Car
(Mid-Size)

Annual Emissions

2,060 kg

VS.

4,860 kg - Gas Car
(Mid-Size)

Full Charge **L1 (Wall Outlet) - 5 Hours**
From Empty **L2 (Charging Station) - 2.5 Hours**



Go Further

Fusion Energi

Electric Range
35 km

Gasoline Range
808 km

\$32,088

Starting MSRP | Before Taxes

UP TO
- \$7,730
Ontario Incentive

Annual Charge/Fuel Cost

\$1,020

VS.

\$2,070 Gas Car
(Mid-Size)

Annual Emissions

2,060 kg

VS.

4,860 kg - Gas Car
(Mid-Size)

Full Charge **L1 (Wall Outlet) - 5 Hours**
From Empty **L2 (Charging Station) - 2.5 Hours**





HYUNDAI

IONIQ PHEV

Electric Range
52 km

Gasoline Range
TBD

TBD

Starting MSRP | Before Taxes

- \$8,460

Ontario Incentive

Annual Charge/Fuel Cost

\$656

vs.

\$2,170 Gas Car
(Mid Size)

Annual Emissions

1,100 kg

vs.

4,860 kg - Gas Car
(Mid Size)

Full Charge
From Empty

L1 (Wall Outlet) - 6 Hours
L2 (Charger) - TBD



\$43,999

Starting MSRP | Before Taxes

- \$8,460

Ontario Incentive

Annual Charge/Fuel Cost

\$1,060

vs.

\$1,872 Gas Car

Annual Emissions

2,160 kg

vs.

4,400 kg - Gas Car

Full Charge From Empty

L1 (Wall Outlet) - 7 Hours
L2 (Charger) - 3 Hours



HYUNDAI

Sonata PHEV

Electric Range
43 km

Gasoline Range
901 km



Kia Optima

Electric Range
47 km

Gasoline Range
935 km

TBD

Starting MSRP | Before Taxes

UP TO
- \$8,460
Ontario Incentive

Annual Charge/Fuel Cost

\$928

vs.

\$1,870 Gas Car
(Mid-Size)

Annual Emissions

2,300 kg

vs.

4,400 kg - Gas Car
(Mid-Size)

Full Charge
From Empty

L1 (Wall Outlet) - 7 Hours
L2 (Charging Station) - 3 Hours



\$83,000

Starting MSRP | Before Taxes

UP TO
- \$3,000
Ontario Incentive

Annual Charge/Fuel Cost

\$2,094

vs.

\$2,456 Gas Car
(SUV)

Full Charge
From Empty

L1 (Wall Outlet) - 6 Hours
L2 (Charging Station) - 2 Hours



Mercedes-Benz

GLE 550e

Electric Range
19 km

Gasoline Range
719 km

Annual Emissions

4,320 kg

vs.

5,780 kg - Gas Car
(Full-Size)



Mercedes-Benz

S 550e

Electric Range
23 km

Gasoline Range
702 km

\$117,900

Starting MSRP | Before Taxes

UP TO
- \$3,000

Ontario Incentive

Annual Charge/Fuel Cost

\$1,690

vs.

\$2,180 Gas Car
(Full Size)

Annual Emissions

3,400 kg

vs.

4,880 kg - Gas Car
(Full Size)

Full Charge
From Empty

L1 (Wall Outlet) - 6 Hours
L2 (Charging Station) - 3 Hours



\$92,100

Starting MSRP | Before Taxes

UP TO
- \$3,000

Ontario Incentive

Annual Charge/Fuel Cost

\$1,750

vs.

\$2,460 Gas Car
(SUV)

Annual Emissions

2,920 kg

vs.

5,780 kg - Gas Car
(SUV)

Full Charge
From Empty

L1 (Wall Outlet) - 7.5 Hours
L2 (Charging Station) - 3 Hours



PORSCHE

Cayenne S E Hybrid

Electric Range
23 km

Gasoline Range
768 km



Panamera S E Hybrid

Electric Range
25 km

Gasoline Range
875 km

\$106,000

Starting MSRP | Before Taxes

UP TO
- \$3,000

Ontario Incentive

Annual Charge/Fuel Cost

\$1,490

vs.

\$2,480 Gas Car
(Full Size)

Annual Emissions

2,920 kg

vs.

4,860 kg - Gas Car
(Full Size)

Full Charge From Empty **L1 (Wall Outlet) - 6.5 Hours**
L2 (Charging Station) - 2 Hours



XC90 T8 Twin-Engine

Electric Range
21 km

Gasoline Range
529 km

\$78,450

Starting MSRP | Before Taxes

UP TO
- \$3,000

Ontario Incentive

Annual Charge/Fuel Cost

\$1,640

vs.

\$2,460 Gas Car
(SUV)

Annual Emissions

3,380 kg

vs.

5,780 kg - Gas Car
(SUV)

Full Charge From Empty **L1 (Wall Outlet) - 6.5 Hours**
L2 (Charging Station) - 2.5 Hours



PLUG-IN HYBRID ELECTRIC CARS

COMING SOON!



BMW 530e



Cadillac CT6 PHEV



Karma Revero



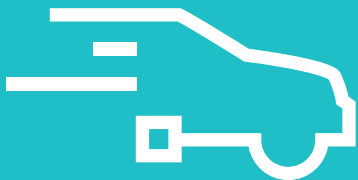
Mitsubishi Outlander PHEV



Toyota Prius Prime

PLUG-IN HYBRID ELECTRIC CARS

COMING SOON!



PLUG 'N DRIVE

Plug'n Drive is a non-profit organization committed to accelerating the adoption of electric vehicles in order to maximize their environmental and economic benefits.

www.plugndrive.ca

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EV Emissions Profiles
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