

PLUG 'N DRIVE

CCRE
April, 2019





PLUG 'N DRIVE

Greenhouse Gas Emissions – The Big Three

A photograph of a busy city street with a traffic jam. A white bus is in the foreground on the left, and various cars are lined up behind it. The text 'TRANSPORTATION 34%' is overlaid on the left side of the image.

TRANSPORTATION

34%

A photograph of an industrial facility, likely a refinery or chemical plant. The scene is filled with complex piping, scaffolding, and large cylindrical storage tanks under a clear blue sky. The text 'INDUSTRY 30%' is overlaid on the left side of the image.

INDUSTRY

30%

A photograph of a dense city skyline, showing numerous high-rise buildings of varying heights and architectural styles. The text 'BUILDINGS 17%' is overlaid on the left side of the image.

BUILDINGS

17%





OUR VISION

To be Canada's champion for electrified transportation

OUR GOAL

Work with government and industry to increase EV sales to 5% of new passenger car sales by 2020. Currently, EVs account for less than 1%.



5%

BARRIERS TO EV UPTAKE



#1

Consumer Knowledge. Education is needed about the ease, benefits and cost savings of driving electric.



#2

Range anxiety: Public and workplace charging is needed

EVs SAVE MONEY



\$2000 (approx)

ANNUAL SAVINGS ON
FUEL AND MAINTENANCE

EVs REDUCE GREENHOUSE GAS EMISSIONS



UP
TO **90%**

FEWER GREENHOUSE GAS EMISSIONS
THAN AN EQUIVALENT GAS CAR

EVs GO THE DISTANCE



1 CHARGE
PER WEEK

200+ KM OF RANGE ON A FULL CHARGE

EVs ARE FOR EVERYONE



40+

MODELS STARTING AT \$20,000
(AFTER INCENTIVES)



Electric Vehicle Discovery Centre Features

Electric Vehicle Test Drives

Home Charging Station Gallery

Electrifying History Wall

Public Charging Powered by Toronto Hydro

OPG PowerPlace Conference Centre (Brought to you by Ontario Power Generation)

Interactive Touchscreen Displays (Brought to you by the Power Workers' Union)

TD Insurance Zone

Bruce Power Coffee Bar

Plug'n Drive Head Office



PLUG 'N DRIVE

OPG PowerPlace

Sponsored by Ontario Power Generation

Premium event venue that can accommodate workshops, seminars, presentations, etc.

Seating for upwards of 150 guests

Equipped with high-definition video display, podium and webinar/conferencing tools



POWERPLACE
ONTARIOPOWER
GENERATION 



PLUG 'N DRIVE

A Recipe for Success

**PUBLIC/PRIVATE
PARTNERSHIPS**

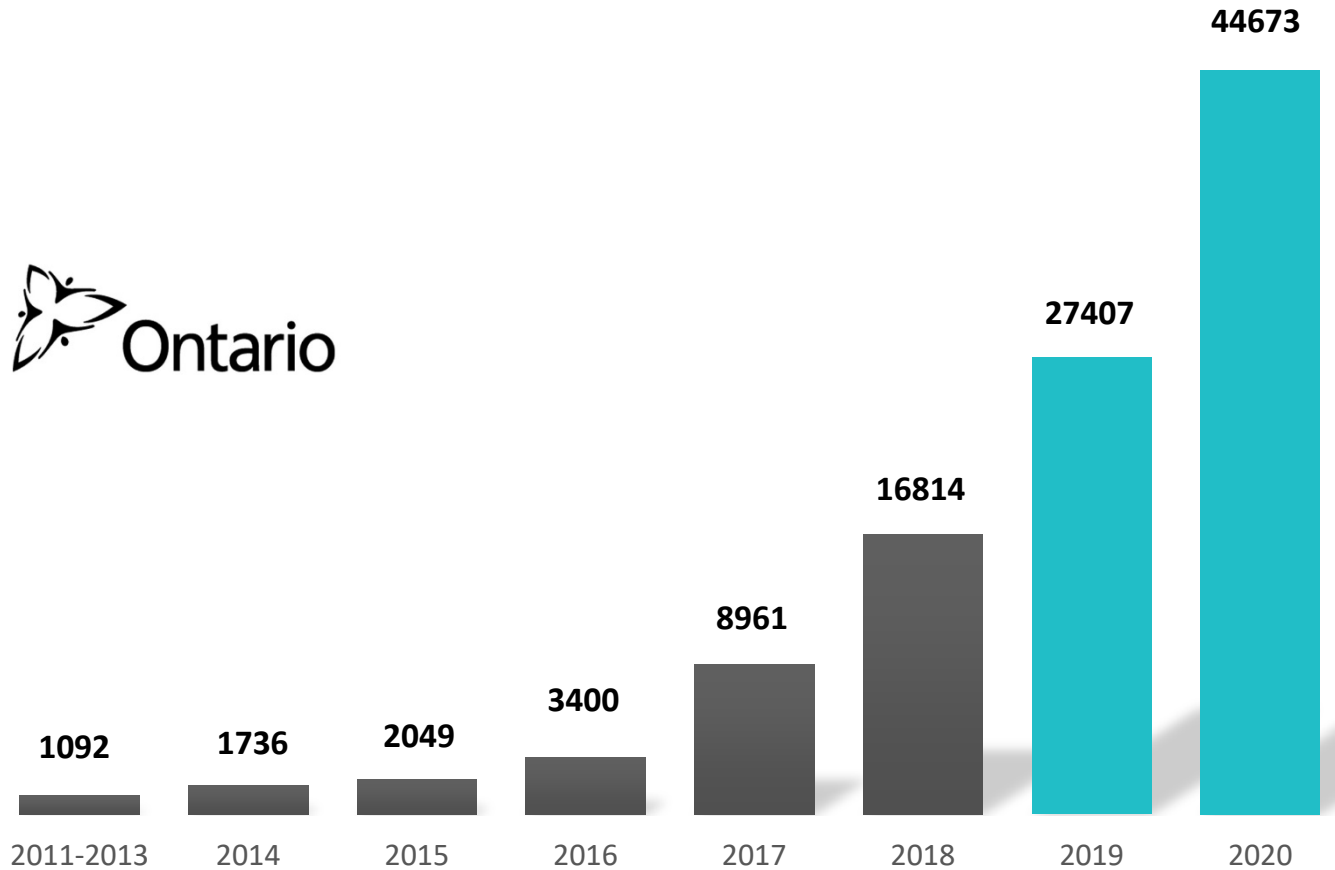
**No pressure, sales
free, all makes and
models – ONE STOP
SHOP**

**ANCILLARY REVENUE
EVENT VENUE /
SERVICES**

**STAKEHOLDER
ENGAGEMENT – two
way referral**

34,052

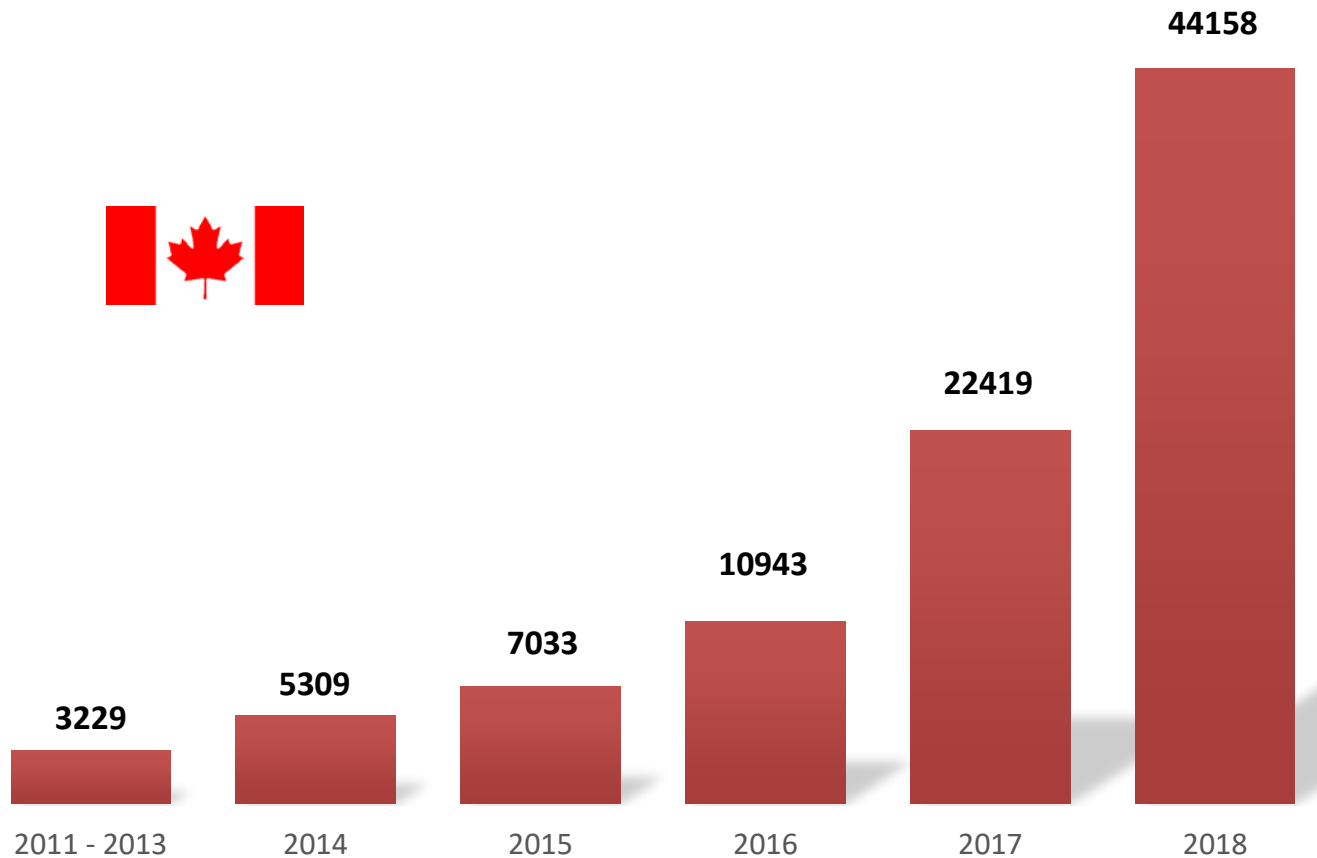
EVs on the road in Ontario (as of December 31, 2018)



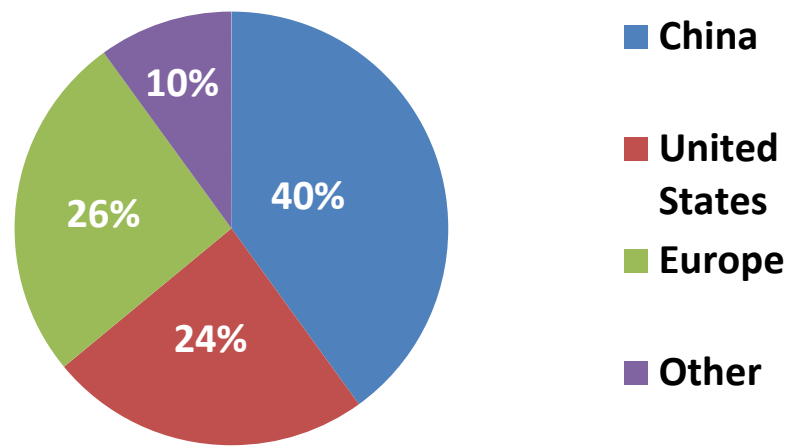
Projection based on Navigant Research. Assumes a 63% increase in EV sales per year.

93,091 EVs on the Road in Canada (as of December 31, 2018)

Ranked **10th** in the world for Number of EVs Sold



3.1 Million Electric Cars Worldwide



Source: International Energy Agency

Top 5 EV Countries

China (39.5%)

United States (24.5%)

Japan (6.6%)

Norway (5.7%)

United Kingdom (4.3%)

Projected **13 Million EVs** on the road in 2020 (251% Increase from 2017)

New vehicle sales of EVs projected to reach **4 million** in 2020

Projected **24%** average year-on-year sales growth



The Province of Ontario invested \$13 million in an electric school bus pilot project

14 Electric Buses are beginning service in 2019 in York Region and Brampton

Edmonton Transit will deploy 40 electric buses by 2020

TTC is purchasing 30 electric buses in 2018



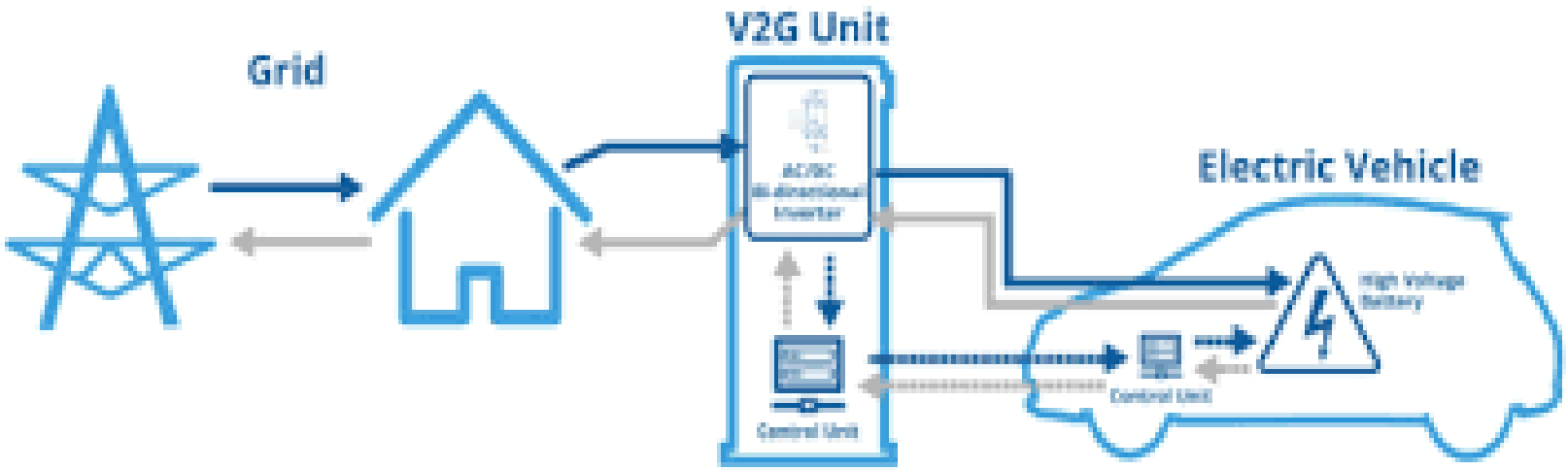


PLANNING FOR ELECTRIC VEHICLE CHARGING IN CONDOMINIUMS AND WORKPLACES

Plug'n Drive Guide – 'Make Your Condo EV Ready'

Vehicle to Grid or 'V to X'

- This exists! Developing market
- Used EV batteries for storage (or storage in the vehicles)
- Used EV batteries to back up charging stations (microgrid)
- Not just emission reductions, but climate adaptation/resilience



Used EV Incentive - \$1000!!



- Take our seminar, take a test drive, qualify for \$1000 off a used EV!
- E-mail info@plugndrive.ca for more details and to join the list
- Launching April 15th – stay tuned!

New Federal incentive announced March 19, 2019:

- **\$5000** Incentive on EV under \$45k
- Funding for infrastructure
- Tax write off for business adding EV to fleet

Details to come...





EVs – Not 'IF' but 'WHEN'!!

PLUG 'N DRIVE

Quebec implements ZEV mandate

United Kingdom to ban diesel and gas cars sales by 2040

Volvo to electrify entire line-up from 2019 on

China plug-in electric vehicle sales in 2017: almost four times those in the U.S

Japan now has more charging stations than gas stations

BMW to offer 25 electric car models by 2025

Shell CEO to make his next car electric



PLUG 'N DRIVE

Thank you!



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