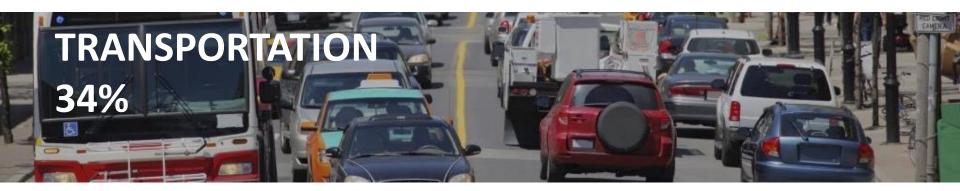


CAP EV Strategy June, 2019





# **Greenhouse Gas Emissions – The Big Three**









# **Ontario's Clean Electricity**











# **OUR VISION**

To be Canada's champion for electrified transportation



# **EV Future: Breaking Down Barriers**

#### **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%.



#### **BARRIERS TO EV UPTAKE**



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



Range anxiety: Public and workplace charging is needed

#### **EVs SAVE MONEY**



\$2000<sub>(approx)</sub>

ANNUAL SAVINGS ON FUEL AND MAINTENANCE

#### **EVs GO THE DISTANCE**



1 CHARGE

200+ KM OF RANGE ON A FULL CHARGE

# EVs REDUCE GREENHOUSE GAS EMISSIONS



#90%

FEWER GREENHOUSE GAS EMISSIONS THAN AN EQUIVALENT GAS CAR

## **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



#### **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







# 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

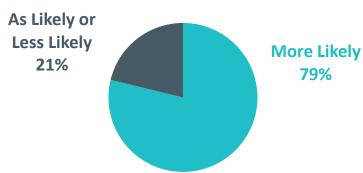
#### **ELECTRIC VEHICLE DISCOVERY CENTRE**

#### **APRIL 2017 to May 2019**

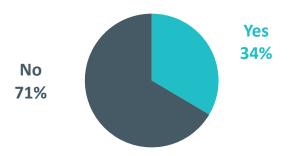


# OF VISITORS 17,400+

Percentage of Visitors That Are More Likely to Purchase an EV

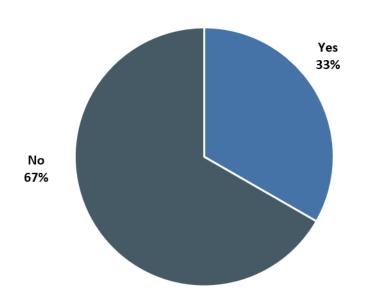


Percentage of Visitors that Opt-In to Receive a Follow-Up from an Auto Manufacturer

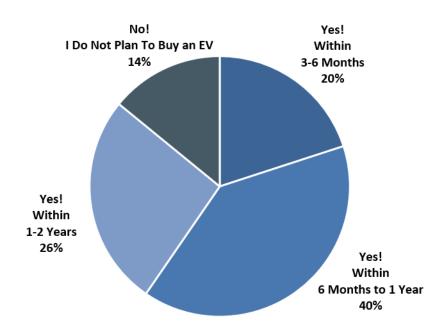


# **EV DISCOVERY CENTRE VISITOR FEEDBACK**

Since your last visit, have you purchased or leased an EV?

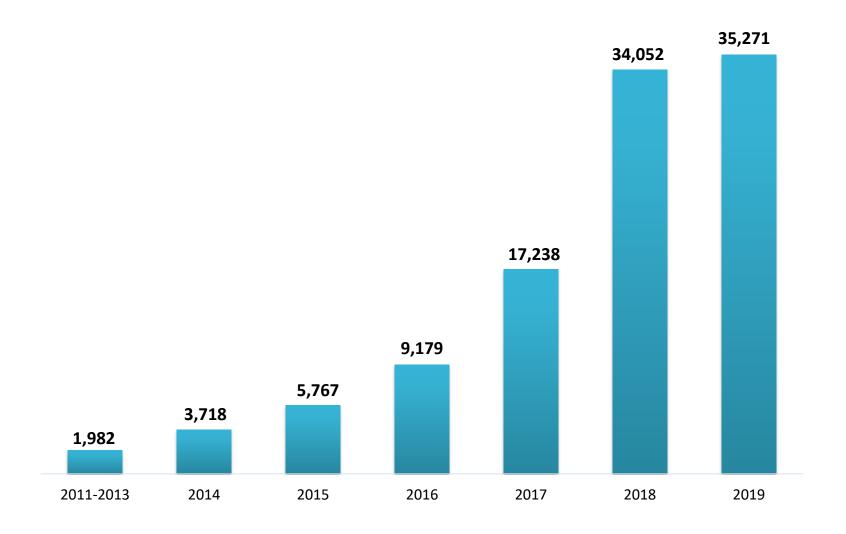


# If you have not purchased or leased an EV, do you plan to?



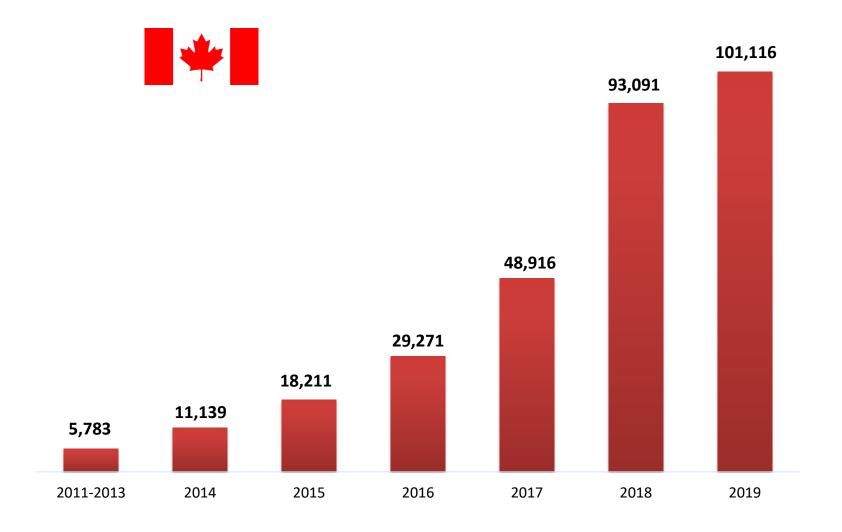
# **EV Sales Growth in Ontario**

# 35,271 EVs on the Road in Ontario (as of Q1 2019)



# **EV Sales Growth in Canada**

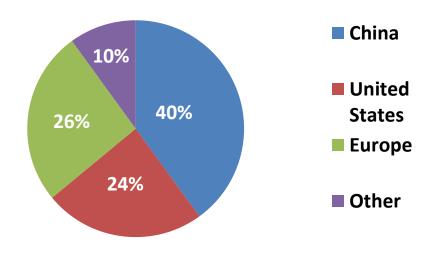
# **101,116** EVs on the Road in Canada (as of Q1 2019)





#### **International EV Growth**

# 5.1 Million Electric Cars Worldwide



Top 5
EV Countries

China (39.5%)

United States (24.5%)

Japan (6.6%)

Norway (5.7%)

United Kingdom (4.3%)

**Source: International Energy Agency** 

#### **EV Growth Worldwide**

#### The Global Electric Car Fleet Has Reached 5.1 Million

#### Global Electric-Car Revolution Set to Take Off China set to lead EV market U.S. ■ South Korea Europe ■ China ■ Japan Rest of World 60M EVs per year 50 40 30 20 10 2015 2020 2025 2030 2035 2040 Source: Bloomberg New Energy Finance **Bloomberg**



# **Electric Transit Opportunities**

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 2019





# **Federal EV Incentive**

# **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





# Used EV Incentive - \$1000!!



- Take our seminar, take a test drive, qualify for \$1000 off a used EV!
- E-mail <a href="mailto:info@plugndrive.ca">info@plugndrive.ca</a> for more details and to join the list
- Launched April 14<sup>th</sup> loads of interest!



#### **Ideas for Fleets**

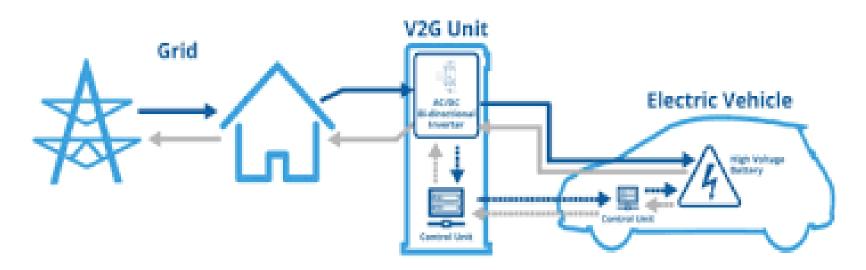
- Education first!
  - Lunch and Learn at the Workplace
  - Vehicle orientation sessions for fleet vehicles
  - Host an Event at the EVDC with Test Drives
- Assessment of gas vehicle use (people are usually wrong!)
- Pool vehicles for opportunity to expose
- Plug'n Drive will have a fleet program soon! Stay tuned





#### Vehicle to Grid or 'V to X'

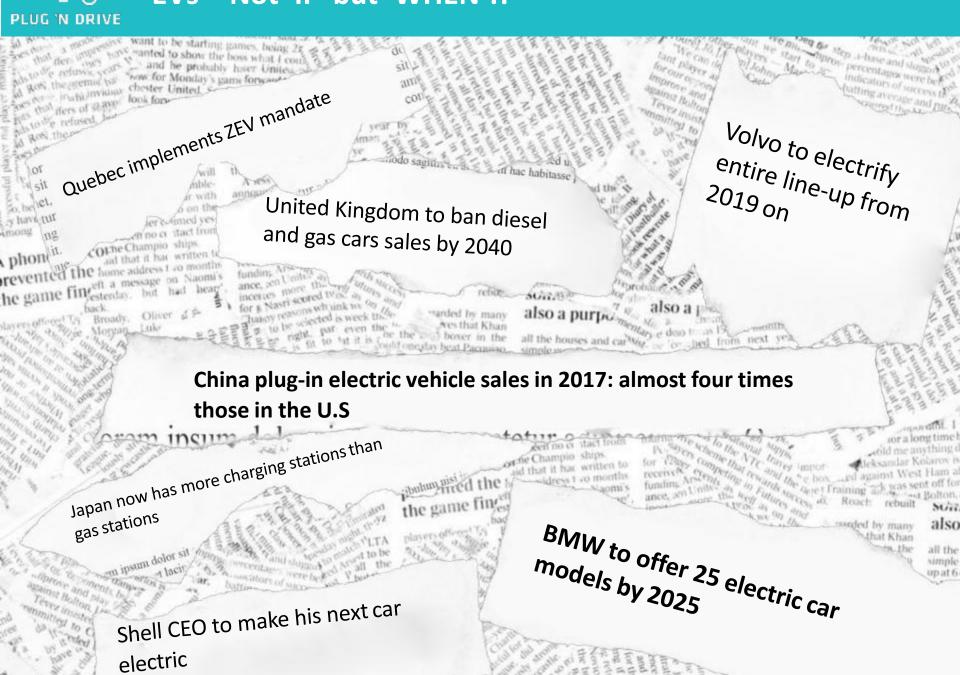
- This exists! Developing market
- Used EV batteries for storage (or storage in the vehicles)
- Used EV batteries to back up charging stations (microgrid)
- Not just emission reductions, but climate adaptation/resilience



Source: fleetcarma.com



### EVs - Not 'IF' but 'WHEN'!!





# Thank you!



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