



# PEEL ZERO EMISSION VEHICLE STRATEGY

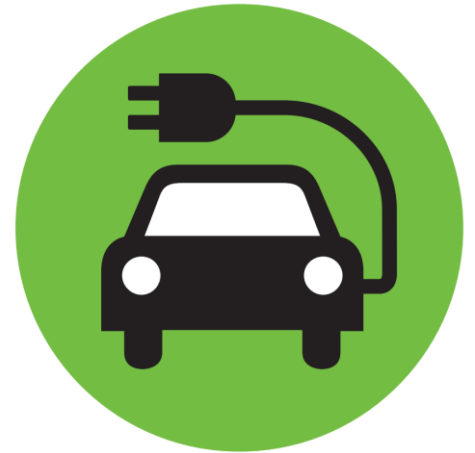
Environmental Action Committee  
May 3, 2022

# STRATEGY OVERVIEW

- Initiative of the **Peel Climate Change Partnership**
- The Strategy consists of a **set of municipal actions** that each municipality can undertake to accelerate ZEV adoption in their jurisdictions.
- Vehicles in scope are **light-duty personal and commercial vehicles** that contribute to community emissions – therefore, excluding municipal fleet and mid- or heavy-duty
- The actions are categorized as near-, medium- and long-term and will target a **5-year timeframe**

# STRATEGY GOALS

- Reduce GHG emissions and air pollution from the transportation sector;
- Improve business and resident knowledge on the benefits of ZEVs;
- Increase ZEV driving experiences, availability, and ownership;
- Enhance planning processes and access to charging infrastructure; and
- Promote local job creation and economic development.



# STRATEGY DEVELOPMENT

ZEV  
Strategy  
Project  
Inception

Research  
and Data  
Analysis

Strategy  
Synthesis

Policy  
Planning  
and PCCP  
Alignment

Action  
Prioritization  
Workshops





# COMMUNITY SURVEYS

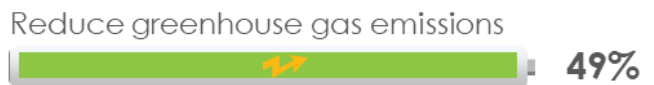
541

Residents

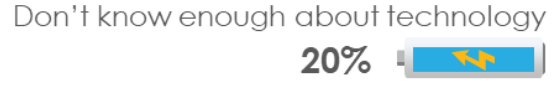
33

Businesses

## Top Reasons Likely to Purchase (Q11)



## Top Reasons Unlikely to Purchase (Q12)



# RESEARCH STUDIES

## Research Study #1: ZEV Uptake Scenarios

- Investigated the region and neighbourhood-specific ZEV uptake scenarios for the Region of Peel for 2021, 2026 and 2035.

## Research Study #2: Grid Impact Model

- Estimated electricity demand throughout the Region of Peel due to ZEVs; assess the capacity on the local electricity grid; and to determine where areas of high demand may occur.

## Research Study #3: Socioeconomic Impact Analysis

- Assessed potential job creation in the Region of Peel as a result of increased ZEV uptake.

## Research Study #4: Health Impacts, Climate Change and Total Cost of Ownership

- Evaluated existing research on the impact ZEVs have in improving human health, reducing GHG emissions, and increasing financial benefits to ZEV owners.

## Best Practice Action Research

- An extensive list of potential ZEV Strategy actions was developed through a best practice research scan of similar municipal plans in Ontario, and more broadly throughout Canada and internationally.

# TAKING ACTION

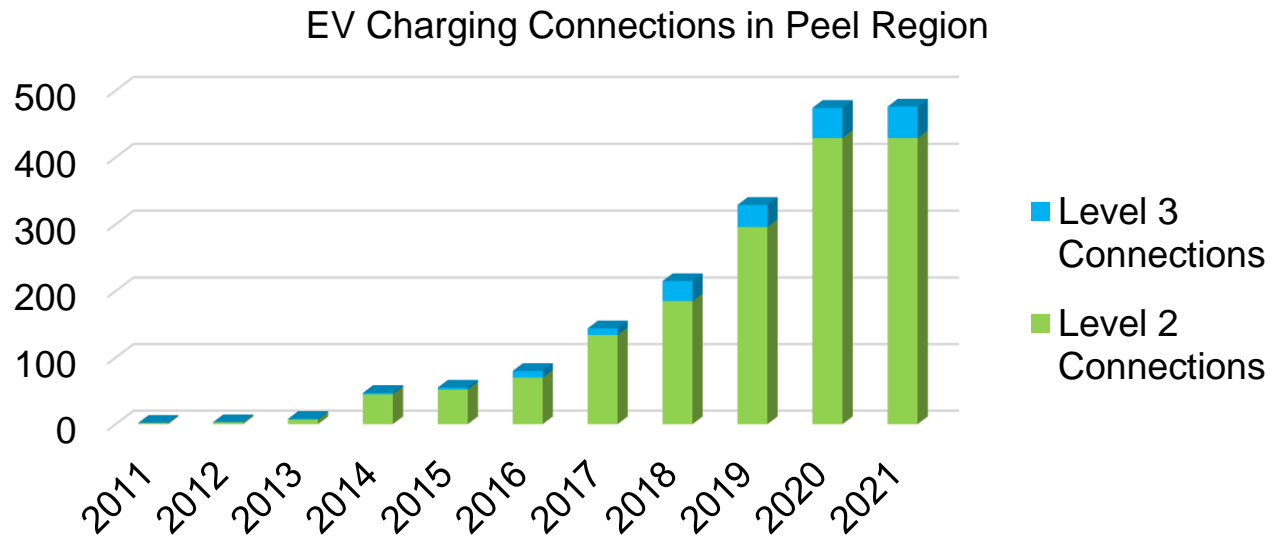
The ZEV Strategy focuses on five areas that reflect PCCP Members' role in enhancing ZEV adoption throughout the region by:

1. Expanding Access to Public EV Charging Stations
2. Enhancing ZEV Education and Awareness
3. Enhancing Private Investments into ZEVs and Charging Infrastructure
4. Embedding ZEV Infrastructure Considerations in the Planning Process
5. Advocate, Implement and Report collectively



# EXPANDING ACCESS TO PUBLIC ZEV CHARGING STATIONS

- Actions in this section focus on supporting sufficient and equitable access to charging stations, and enhancing awareness of their locations.





# ENHANCING ZEV EDUCATION AND AWARENESS

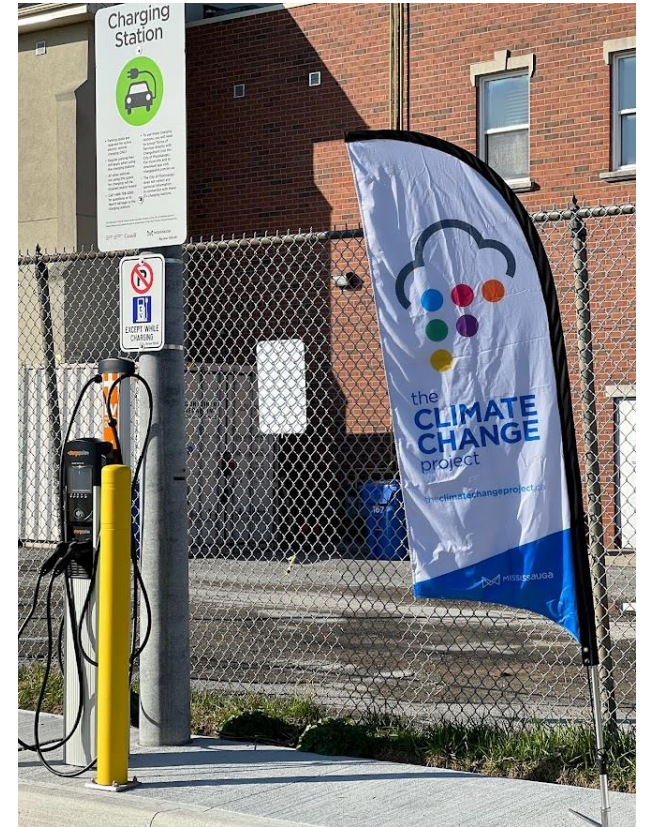
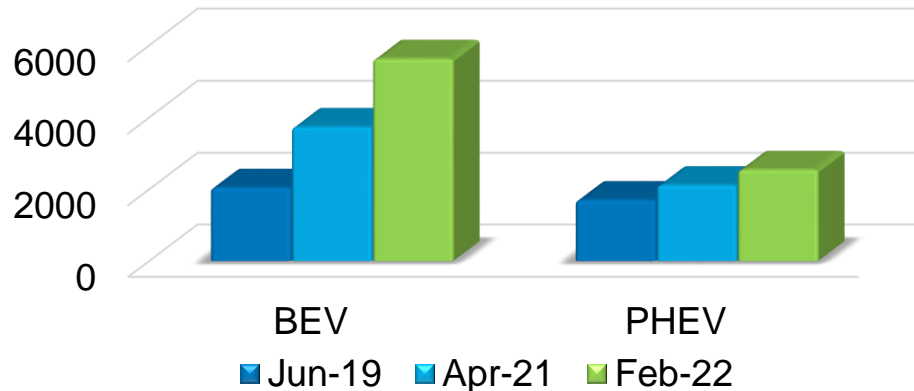
- Actions in this section aim to increase ZEV knowledge amongst Peel residents, businesses, and PCCP members.



# ENHANCING PRIVATE INVESTMENT IN ZEVS AND CHARGING INFRASTRUCTURE

- Actions in this section focus on municipal programs to support businesses and residents in purchasing ZEVs and charging infrastructure.

Peel Region Vehicle Registrations



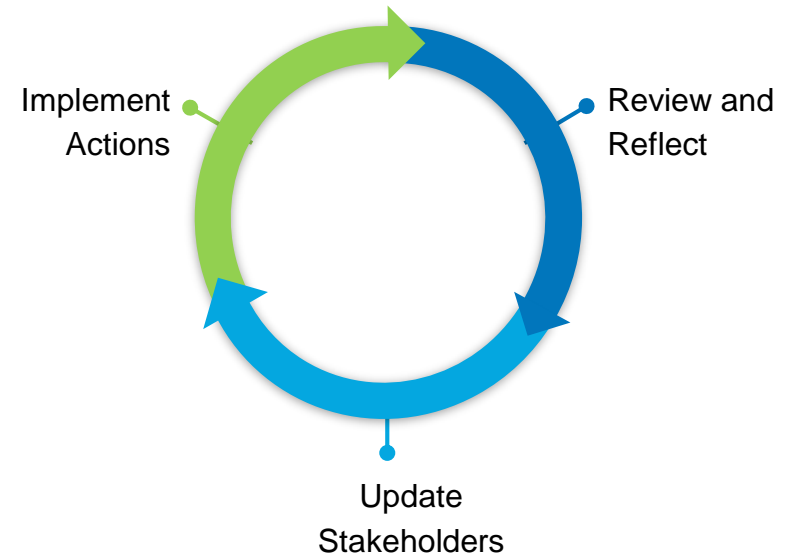
# EMBEDDING ZEV INFRASTRUCTURE CONSIDERATIONS IN THE PLANNING PROCESS

- Actions in this section focus on enhancing municipal policies and development standards for charging infrastructure, as well as coordinating with local electric utilities on planning, programming, and innovation.



# ADVOCATING, IMPLEMENTING AND REPORTING COLLECTIVELY

- Actions in this section focus on establishing the governance and partnerships needed to implement the ZEV strategy and advocating on the PCCP Members' needs to achieve Federal ZEV sales targets.



## NEXT STEPS

- Staff will take the final Peel ZEV Strategy to Regional and Local Municipalities' Councils, and Conservation Authority Boards for endorsement
- With approval, staff will develop a ZEV Strategy Task Force comprised of municipal and conservation authority representatives that will work together to implement the Peel ZEV Strategy actions



# THANK-YOU!

Contact:

Carrah Bullock, Climate Change Specialist, City of Mississauga

[Carrah.bullock@mississauga.ca](mailto:Carrah.bullock@mississauga.ca)