



# Citywide Electric Vehicle Infrastructure Strategy

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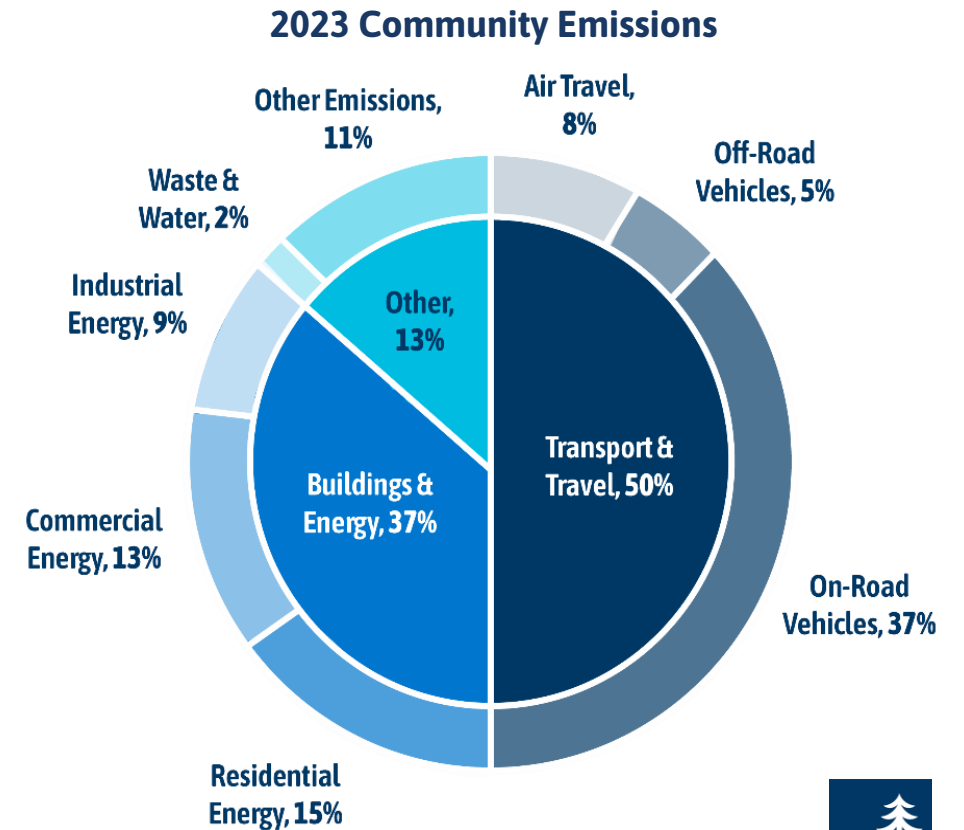
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# Why Focus on EV Chargers?

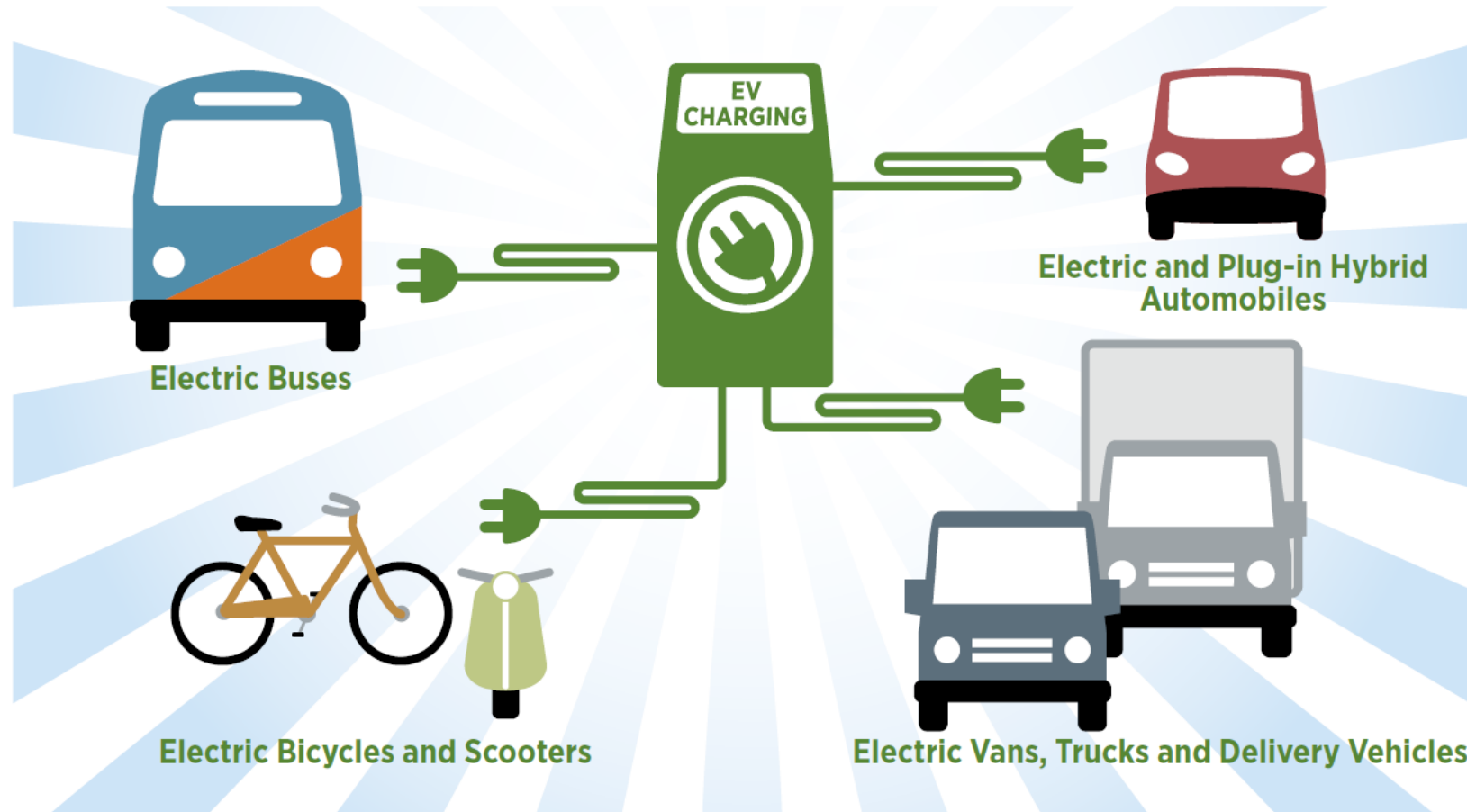
## Directed by the Climate Action Framework and Transportation System Plan

- Transportation is the **single largest contributor of emissions** in Vancouver.
- Inadequate charging is a **top barrier** to switching to electric mobility.
- **Renters and low-income households** have more barriers to charging access.



# Transportation Electrification in Vancouver

Co-benefits of cleaner air, lower monthly costs





# 2025 EV Infrastructure Strategy

## Project Objectives

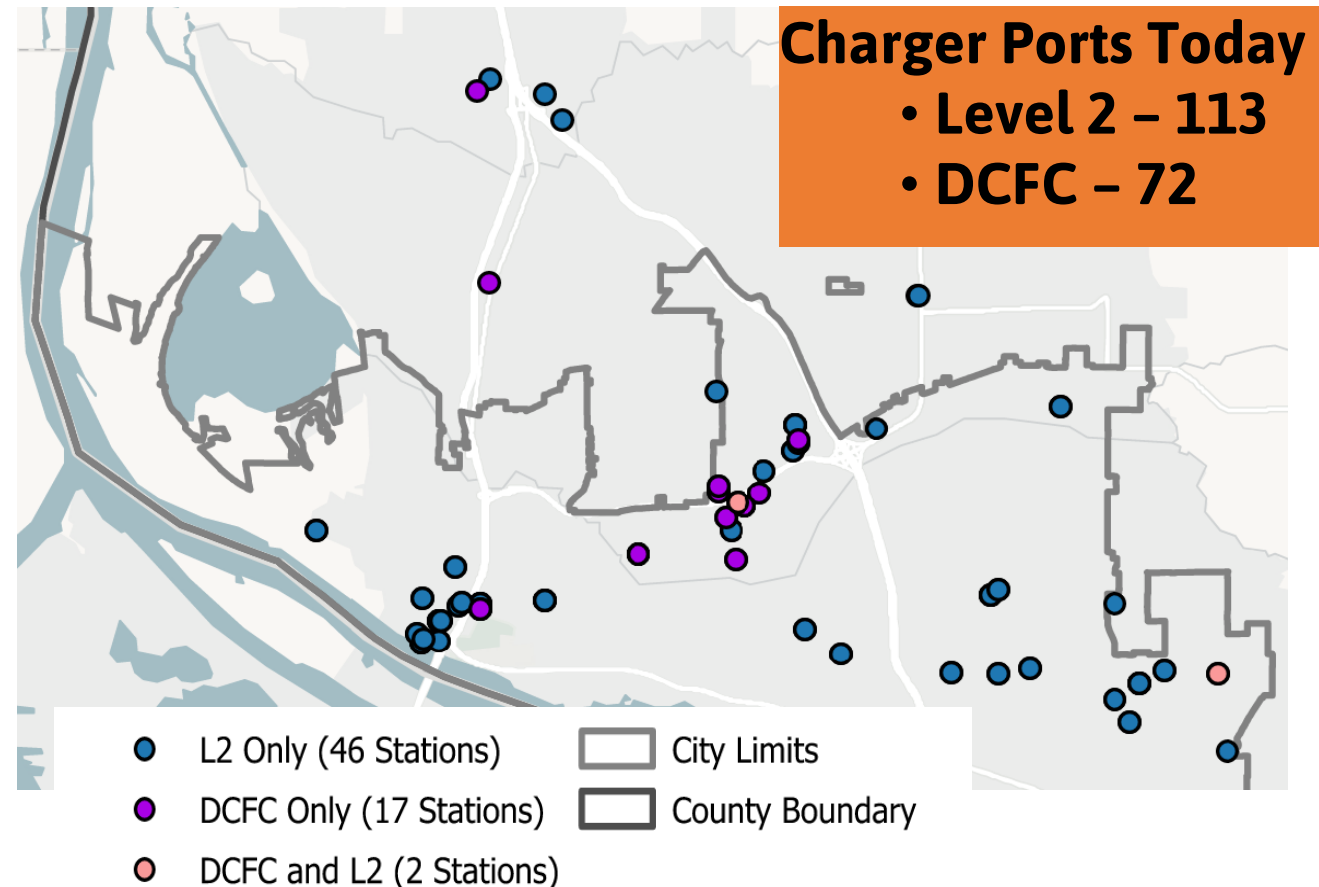
1. **Set priorities** for EV charging infrastructure investments and incentives
2. **Identify programs and policies** to ensure a smooth and equitable transition to electric mobility for all communities
3. **Outline actions that the City** will take over the next five years to achieve its goals
4. **Define roles and responsibilities** for the City and partners



# EV Charging Forecast

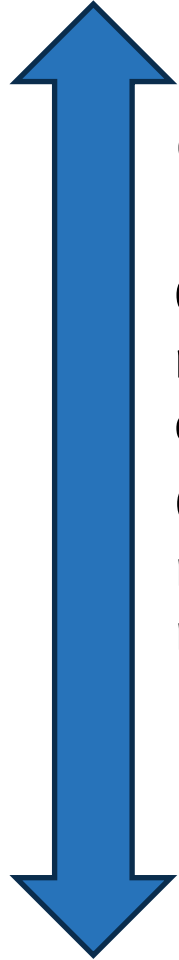
Increase in publicly available EV chargers needed to support broader transition.

- EV Forecasts:
  - Current: 8,000 EVs in Vancouver
  - **2030 Forecast: 12,000 to 25,000 EVs**
  - (10-30% annual growth)
- EV charger installations needed:
  - **DCFC: 1 to 5 per year**
  - **L2: 30 to 100 per year**
- Market gaps: Neighborhood charging, multi-family



# Potential Roles for the City

**More directly involved**



City **owns and operates** EV charging infrastructure.

City **partners with** agencies/private market to install and/or operate EV charging infrastructure.

City **licenses** a public facility (such as the right of way) but is not in charge of maintenance or operations.

City **enables** more private development of EV charging infrastructure through code, permitting, incentives.

**Less directly involved**

## Who might be involved?

- City of Vancouver
- EV charging companies
- Clark Public Utilities
- Property owners
- Community organizations



# Why and Who before Where and How

Core question: How and where will EV chargers be developed to meet community needs?

- **Necessity Charging:** Serves those without access to at-home charging
  - Renters, apartment dwellers, older homes without garages; need charging near home and destinations with longer dwell times
  - Level 2 charging (4-10 hrs) may be adequate
- **Convenience Charging:** Helping to address “range anxiety”
  - Residents likely with at-home charging access; need reliability and density
  - Likely mix of Level 2 and DC Fast Charging (30 min to 1 hr)
- **Visitor Charging:** Serves markets with large amounts of vehicle travel
  - Ride hail, delivery drivers, visitors to the city and/or passing through the city
  - Greater need for DC Fast Charging
  - Potentially address higher air quality impacts from vehicle tailpipe emissions





# Community Engagement

## Phase 1: Business Case

### Business Community:

- Outreach to business associations, property owners, EVSE companies
- Focus: Barriers and current interest in EV charger development
- March – April



## Phase 2: Citywide Framework

### Equity Communities:

- Cohort of 3 CBOs as community liaisons
- Focus: Equitable access to benefits of transportation electrification (TE)
- February – August

*\* Collaboration with Clark Public Utilities and Clean Cities Coalition*



### Community Survey:

- EV drivers and non-EV drivers
- Focus: Community charging needs, priorities for electric mobility
- May – June





# Community Transportation Electrification Cohort

## Focus on mobility priorities for underrepresented communities

- Cohort members:
  - **Phung Ojala, Vietnamese Community of Clark County**
  - **Abby Hollopeter, Odyssey World International Education Services**
  - **Gerina Hatch, Community in Motion**
- 7 out of 9 workshops completed
- 11 public outreach events completed
- Co-creating recommendations for an equitable transition to electric mobility



# DISCUSSION:

What strategies do you think will create the greatest community benefit for Vancouver?



**EV Carshare**



**Public Charging**



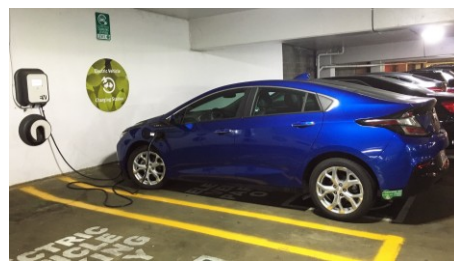
**Incentives & Rebates**



**Community Education**



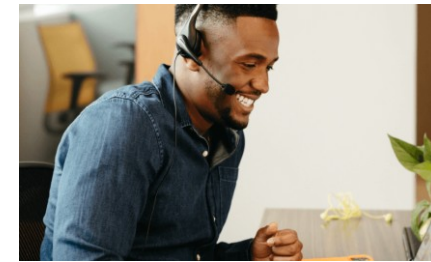
**E-Bike/Scooter Share**



**At-Home Charging**



**Fleet Electrification**



**Community Navigators**



# Project Timeline

Community Survey open now through June 30  
at [beheardvancouver.org/EV-Strategy](https://beheardvancouver.org/EV-Strategy)

## Phase 1: Business Assessment Sept 2024 - April 2025

Evaluate the appropriate role for the City.

## Phase 2: Citywide Framework & Priorities Feb - Aug 2025

Outline priority strategies and model priority locations to pursue.

## Phase 3: Implementation Plan Aug - Sept 2025

Set targets and clear direction for City departments.

### Fall 2024 – Winter 2025

Research and analyze EV market trends and roles  
Summarize initial findings

WE ARE HERE

### Spring – Summer 2025

Public engagement and business outreach  
Convene Community TE Cohort

### Summer 2025

Identify priorities and  
framework for investment

### Summer - Fall 2025

Develop 5-year implementation  
plan





# Thank You & Questions



**Take the EV Infrastructure Survey by June 30!**  
**[beheardvancouver.org/EV-Strategy](https://beheardvancouver.org/EV-Strategy)**

