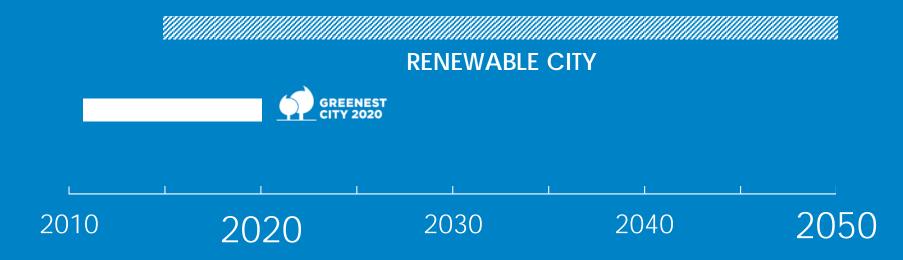


RENEWABLE CITY STRATEGY (RCS)

2020 AND BEYOND

In November 2015, City Council committed to achieving 100% renewable energy use before 2050.





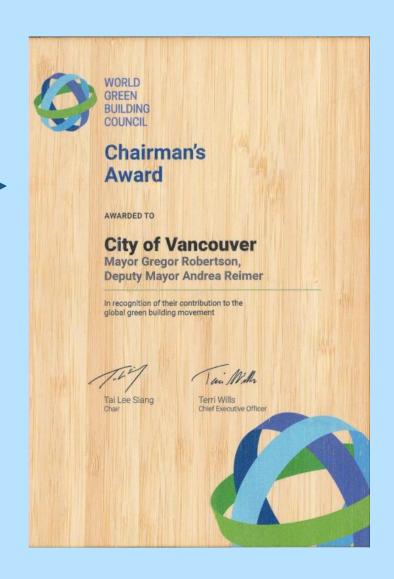
RCS 2016 HIGHLIGHTS

RCS approved

~ November 2015

Zero Emissions
Building Plan
- July 2016

Engagement and education and education











IN 2017

Renewable Energy Strategy for City Facilities

VBBL Amendments for Energy Efficient Low-Rise MURBs

Building Retrofit Plan Update

RCS Implementation Plan



TODAY EV Ecosystem Strategy

Greenest City Fund

Green Building Policy for Rezonings Update



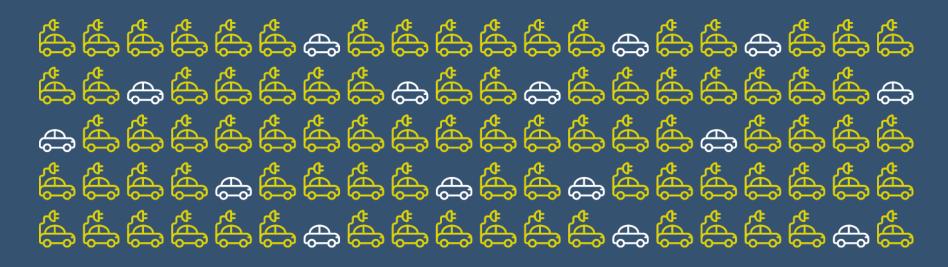






85% of Vancouverites

purchasing a new car in the next 5 years plan on, or would consider, an EV.

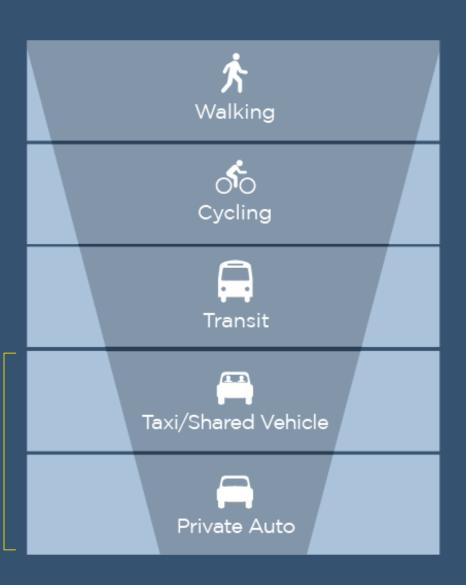




CITY POLICY CONTEXT

- » Renewable City Strategy
- » Greenest City Action Plan
- » Transportation 2040
- » Healthy City Strategy

EV charging infrastructure supports these areas



OTHER LEADING JURISDICTIONS





VANCOUVER'S CHARGING INFRASTRUCTURE







EV Working Group 2007

Vancouver Building By-Law 2009

Project Get Ready 2010

Charge & Go 2011-2014

DC Fast Charge 2016





BARRIERS TO EV ADOPTION IN VANCOUVER

Lack of home charging access

Current network does not meet user needs

Range < peak driving need

Business risk

Lack of vehicles





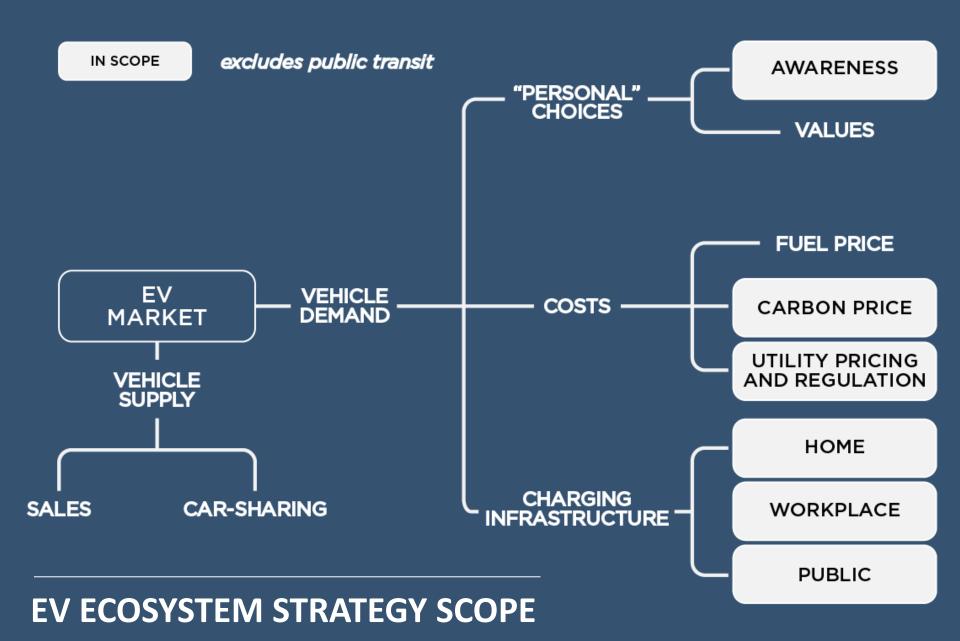
THE EV ECOSYSTEM

Charging needs by neighbourhood and building use

Integrated and adaptable; part of City planning process;









2016-2021

Five year strategy with long-term view

MARKET SUPPORT

available and reliable infrastructure

THE CITY'S ROLE

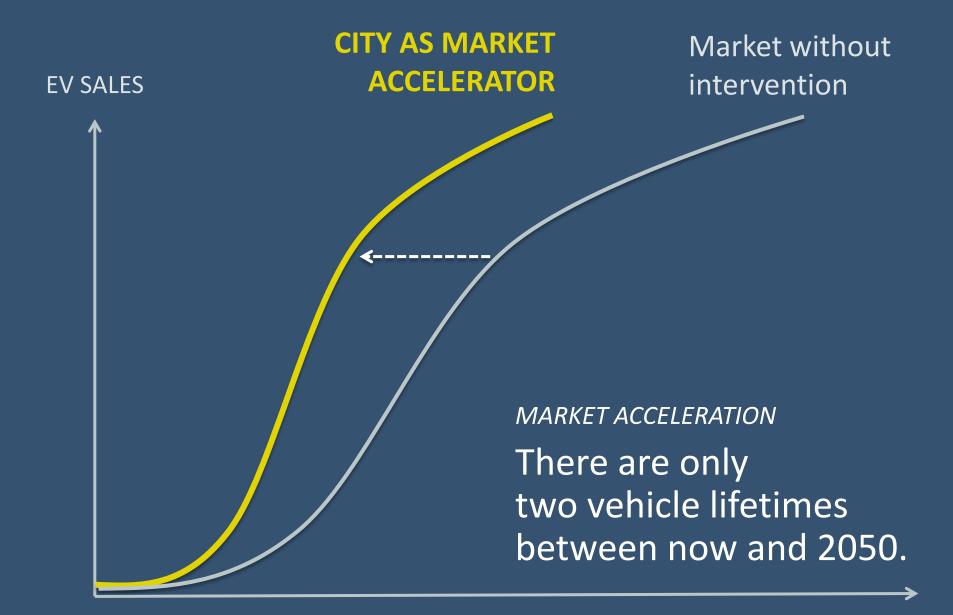
POLICY LEVERS

Land-use and building policies

OPTION TO EXIT

potential transition to private sector





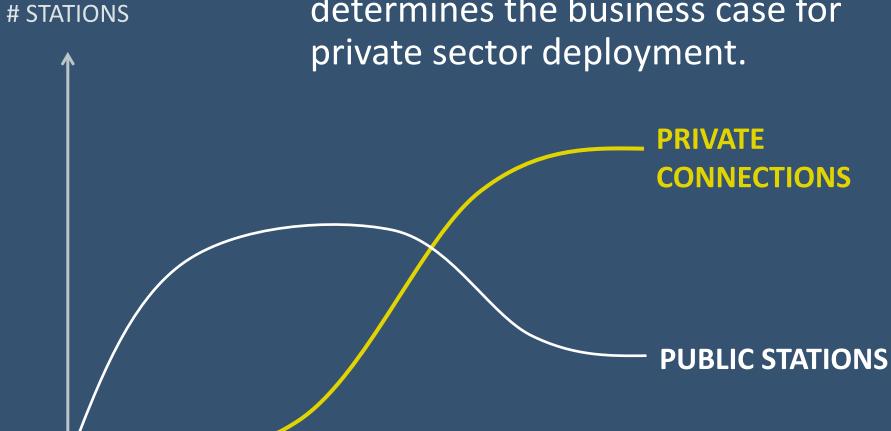
TIME





LONG-TERM BUILD-OUT

Market size (i.e., # customers) determines the business case for



TIME





CAPITAL REQUEST \$3 M over five years



BUSINESS CASE FOR PUBLIC CHARGING

Increase access to charging

EV market expansion

Better ROI on public charging

Private-sector uptake of public charging infrastructure

Estimated # of EVs in Vancouver



~1,000

in 2016

~30,000

by mid-2020s

~200,000

by 2050



APPROACH

Expand access to home and workplace charging



Integrate EV infrastructure planning into core City processes

HOME AND WORKPLACE

FLEXIBILITY AND SIMPLICITY

Expand EV charging requirements

FINANCIAL SUPPORT

Develop incentive programs

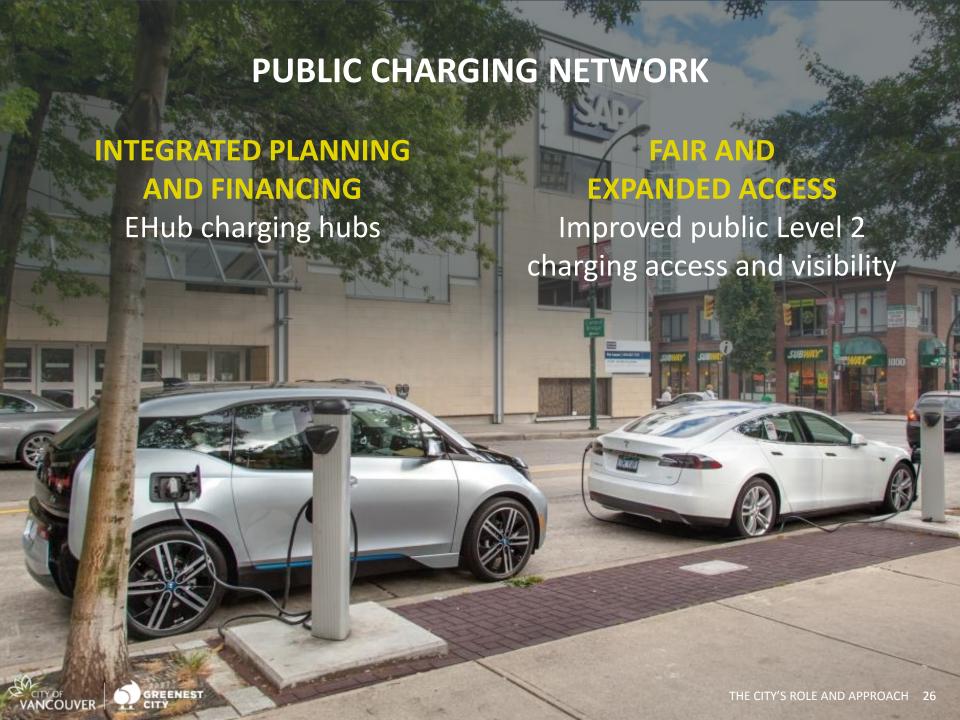
VISIBILITY

Require specific, highly visible labelling

ADVOCACY

Provide certainty of access





CORE CITY PROCESSES Vancouver Harbour **ENGINEERING SERVICES** Operate City-owned network Museum of Vancouver Granville Island Public Market Terminal Ave **BUILDING A** DEVELOPMENT SERVICES E Broadway Staff training on EV charging MT PLEASAN construction requirements E King Edward Ave SHAUGHNESSY **PLANNING** Elizabeth Park Develop guidelines for new public charging deployment OAKRIDGE E 49th Ave Langara Golf Course E. SOUTH VANCOUVER

CAPITAL REQUEST

\$3M over five years

EV ECOSYSTEM STRATEGY OUTCOMES

、 私公会关键等

20 - 25

fast charging stations

40

Level 2 stations

\$40M 117,000 tco₂e

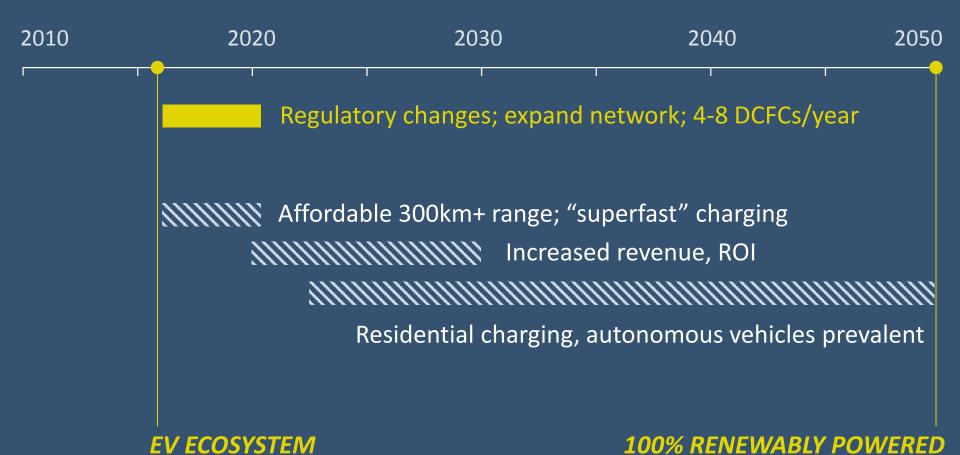
annual savings by mid-2020s

Labelling of EV charging circuits improves visibility to new residents

Maintain focus on walking eycling and transit

idents Preferential parking rules under developmen THE CITY'S ROLE AND APPROACH 2

WHERE WE'RE GOING





STRATEGY

TRANSPORTATION

NEXT STEPS

NOVEMBER Final strategy to stakeholders Park Board **ACES Working Group**

DECEMBER-JANUARY Regional Pricing Committee **Quick Start actions**

Reserved for electric vehicles

Reserved for electric vehicles

