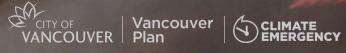


# CHIMATENCY

2021







# Agenda

Progress update to Council on the Climate Emergency Action Plan in 2020/2021

for information only; no Council decision needed

- "GCAP Recap": 10 years of Greenest City Action Plan
- CEAP Overview
- Big Move Updates (incl. *Green Ops*)
- Look Ahead

## Greenest City Framework VANCOUVER GREENEST



ZERO CARBON	Green Buildings	Re		
	Green Transportation	lim.		
ZERO WASTE	Zero Waste	ate & vables	Green E	Lighter
HEALTHY ECOSYSTEMS	Access to Nature			Footprint
	Clean Water		conomy	tprir
	Local Food			)t
	Clean Air			

3 high-level objectives

goal areas

#### **10 Years of Greenest City**

# 8 OF 18 TARGETS ACHIEVED

mode share and distance driven by residents; trees planted; natural areas; food assets; green businesses

# PROGRESS ON ALL TARGETS

carbon pollution; new buildings; active transportation; waste; water; green jobs

# CHALLENGES NOW AND AHEAD

pandemic transit setbacks; buildings not climate-resilient; air quality worsening



#### What We Learned

#### **USE ALL OUR TOOLS**

regulatory action needed, along with advocacy and investment

#### MORE ACCOUNTABILITY

tracking milestones, outcomes, and expenditures

#### **PUBLIC DEMAND ACTION**

90% of residents concerned about climate; 10% understand the type and scale of action needed

#### **LEADERSHIP BEYOND**

Vancouver's actions felt regionally, nationally, globally

#### **CO-BENEFITS**

better health, green space, equitable transportation, lower costs

GCAP handout for

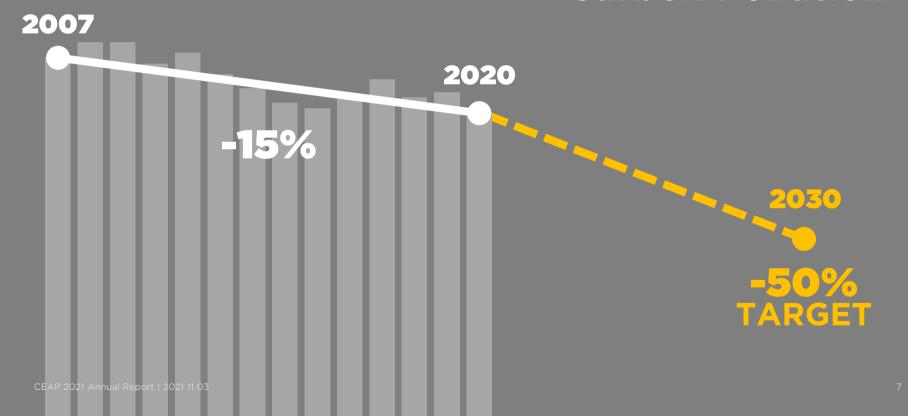
FINAL INDICATORS

### CEAP

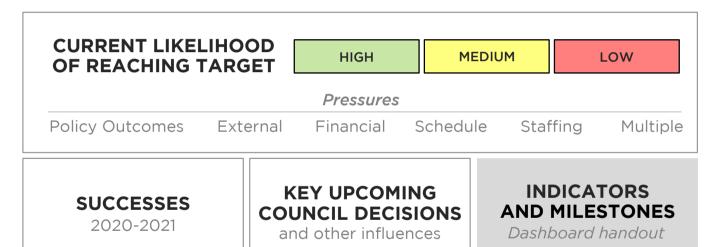
#### **6 Big Moves**



# Vancouver's Carbon Pollution

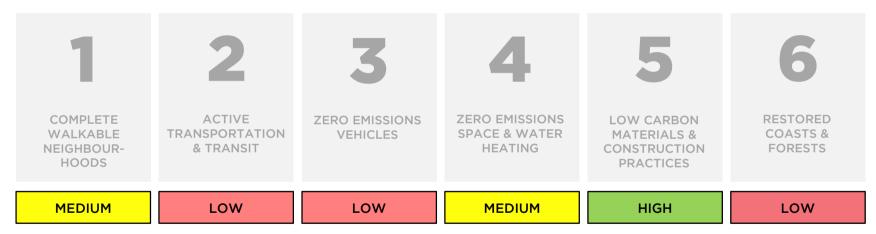


# **Big Move Updates**



#### **Current Likelihood of Reaching Target**

based on existing policy framework and other external/internal pressures



Key Council decisions and external decisions can influence these ratings.

90% of people live within an easy walk/roll of their daily needs.

Successes

#### SUPPORTING NEIGHBOURHOOD GROCERY STORES

Council approved zoning and development by-law amendments in Jan 2021

# MORE HOUSING IN WALKABLE NEIGHBOURHOODS

11 MIRHPP projects have been approved, all in walkable, transit-oriented locations close to local shopping streets



By 2030, two thirds of trips in Vancouver will be by active transportation and transit.

#### **Successes**

# BUS SPEED AND RELIABILTY

transit priority quickbuilds; bus stop balancing; expanded peak hours

# A SAFER WALK TO SCHOOL

Walk-Bike-Roll Mini-Grants; Walking School Buses (fall 2021); School Streets Pilot

# MOVING QUICKLY ON ACTIVE TRANSPORTATION

Beach Ave upgraded in April 2021: pedestrian safety measures; Slow Streets By 2030, two thirds of trips in Vancouver will be by active transportation and transit.

**LOW** 

#### **Key Decisions**

- 2022 Capital Budget,
   2023-26 Capital Plan 2022
- Parking Standards for New Development including Open Option Parking 2022

#### **INFLUENCES**

TransLink: Transport 2050 2022





By 2030, 50% of the kilometres driven on Vancouver's roads will be by zero emissions vehicles.

#### **Successes**



# EV CHARGING IN RENTAL BUILDINGS

off-street EV charging in rental-only buildings (equity issues)

# SAFE ON-STREET EV CHARGING

allow everyone to safely use the sidewalk (safety + climate)



By 2030, 50% of the kilometres driven on Vancouver's roads will be by zero emissions vehicles.

LOW

#### **Key Decisions**

- EV Charging: Gas Stations/Lots 2022
- 2022 Capital Budget,
   2023-26 Capital Plan 2022

#### **INFLUENCES**

BC: ZEV Standard



By 2030, the carbon pollution from buildings will be cut in half from 2007 levels.

#### Successes

## HEAT PUMP PERMIT STREAMLINING

best practice guides; simplified processes for many cases; dedicated contact for further guidance

# ZERO EMISSIONS NEW BUILDINGS

VBBL changes for low-rise residential buildings effective Jan 2022

# REBATES SPUR HEAT PUMP UPTAKE

fully subscribed
CleanBC rebates for
heat pumps/water heaters;
renewed to 2023



By 2030, the carbon pollution from buildings will be cut in half from 2007 levels.

**MEDIUM** 

#### **Key Decisions**

- Renewable hot water systems in new rezoned multi-family/commercial buildings 2022
- Carbon limits on existing buildings 2022

#### **INFLUENCES**

• BC: Natural Gas Emissions Cap





By 2030, the embodied emissions from new buildings and construction projects will be reduced by 40% compared to a 2018 baseline.

#### **Successes**

# BUILDING PATHFINDER

online tool will help designers explore available low carbon design options

# MASS TIMBER ZONING VARIANCES

variances to make it easier to build tall timber, introduced Feb 2021, now in use by projects

# LOW CARBON MATERIALS BUILD MOMENTUM

at least 7 tall timber projects in design and permitting; local concrete plant offering low-carbon mixes





By 2030, the embodied emissions from new buildings and construction projects will be reduced by 40% compared to a 2018 baseline.

HIGH

#### **Key Decisions**

- Reduction targets for new rezoned buildings 2022
- Additional code changes for mass timber 2022

#### **INFLUENCES**

• BC: CleanBC Roadmap to 2030

By 2021, develop "negative emission" targets that can be achieved by restoring forest and coastal ecosystems.

LOW

#### **Key Decisions**

- Big Move 6 Roadmap TBD
- Vancouver Plan 2022
- 2022 Capital Budget,
   2023-26 Capital Plan 2022

#### **INFLUENCES**

 BC: Climate Preparedness and Adaptation Strategy



#### 825 PACIFIC

award-winning Passive House all-electric near-zero emission artist/cultural hub

#### **VPL's EV VAN**

medium-duty book-delivery van; 90% lower fuel costs in first 4 months

### RESPONSIBLE INVESTING & CLIMATE DISCLOSURE

First Canadian municipality to adopt responsible investing screening and TCFD reporting



58%

#### OF \$58M 2021 CAPITAL BUDGET SPENT/COMMITTED

as at Oct 2021; on-track to spend/commit fully by end of 2021

- expanded EV charging network
- improved access and safety on pedestrian and bike network (incl. school safety, new sidewalks, pedestrian signals, curb ramps, bike lane improvements)
- heat-pump retrofit rebates for residents
- low-carbon retrofits in City buildings

**COUNCIL APPROVED IN 2020** 



~\$500M REQUIRED SPEND over five years to meet targets

**2020:** COUNCIL APPROVED CEAP FINANCIAL FRAMEWORK

~\$500M REQUIRED SPEND over five years to meet targets

BM1	BM2	ВМ3	BM4
~\$70M	~\$290M	~\$80M	~\$60M
e.g. Broadway Plan area, curb cuts, pedestrian signals	e.g. transit priority, bike lanes, major projects	e.g. EV charging infrastructure, City fleet	e.g. retrofit incentives, City building energy retrofits

**2020:** COUNCIL APPROVED CEAP FINANCIAL FRAMEWORK

~\$500M REQUIRED SPEND over five years to meet targets

BM1 BM2 BM3 BM4

e.g. curb cuts, e.g. transit priority, bike lanes, major projects e.g. EV charging e.g. retrofit incent infrastructure, City building ene

~\$270M BASELINE SPEND (5yrs)

assumes maintenance of projected funding levels from 2020 - values will be updated in 2022 to reflect new Capital Plan, Council decisions, etc.,

**2020:** COUNCIL APPROVED CEAP FINANCIAL FRAMEWORK

~\$500M REQUIRED SPEND over five years to meet targets

BM1

~\$70M

BM2

~\$290M

BM3

AOS.

~\$60M

infrastructure,

retrofit incentives tity building energy

~\$270M BASELINE SPEND (5yrs)

~\$230M FUNDING GAP

assumes maintenance of projected funding levels from 2020 - values will be updated in 2022 to reflect new Capital Plan, Council decisions, etc.,

~\$230M Funding Gap

COSTEFFECTIVE SENIOR GOV/ NEW
MEASURES PARTNERS REVENUE

PRIORITY IN NEXT CAPITAL PLAN

5-YR ~**\$25-50M** 

~\$25M

~\$45-70M

~\$95-125M

~\$230M Funding Gap

COST-EFFECTIVE MEASURES

5-YR

~\$25-50M

2021

>\$10M

#### **COST SAVINGS**

materials and rescope on active transportation projects: Beach Ave, Drake St, Smithe St, etc.

~\$230M Funding Gap

SENIOR GOV/ **PARTNERS** ~\$25M 5-YR 2021 >\$4M **EXTERNAL FUNDING SECURED** TransLink (active transportation) FCM (building retrofit accelerator, NEU) CleanBC (heat pump incentive leverage)

~\$230M Funding Gap



~\$230M Funding Gap



**Resident + business | investment vs. savings** 

\$1.3B investment

\$2.2B savings

~\$1B
RESIDENT AND BUSINESS SAVINGS
OVER NEXT DECADE

#### **CEAP and Equity**

# CLIMATE & EQUITY WORKING GROUP

20 diverse individuals;
Climate Justice Charter
development;
direct work with CEAP staff

# CLIMATE JUSTICE CHARTER

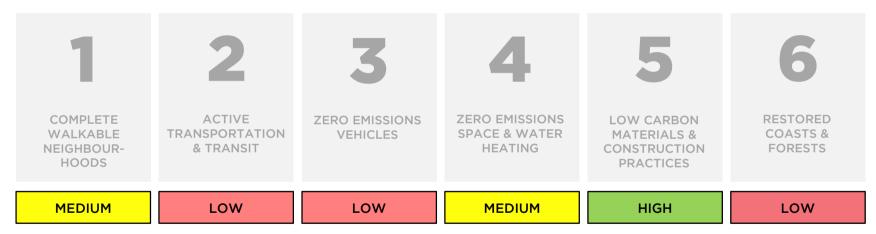
careful Charter scoping for mid-2022 delivery

# STILL EARLY IN THE JOURNEY

foundational work to understand; early starts on Mobi, Rental Retrofits, EV readiness

#### **Current Likelihood of Reaching Target**

based on existing policy framework and other external/internal pressures



Key Council decisions and external decisions can influence these ratings.

### **LOOK AHEAD**

#### **CEAP Council Decisions**

Nov 2021 Q2 2022 Q3 2022 Q1 2022 Streamlining Rentals BM1 Parking Standards for Transport Pricing Climate Justice Charter Progress Update\* BM2 New Development BM2 **BM1-6** Heritage Energy Retrofit Carbon Pollution Limits Grant **BM4 EV** Charging Detached Homes BM4 Gas Stations + Parking Lots **BM3** Carbon Pollution Limits Large Buildings **BM4 EV** Charging Under-Sidewalk BM3 Mass Timber Barrier Removal BM5 **GB Policy For Rezonings TBD** Nature-Based BM4/5 Climate Solutions **BM6** Vancouver Plan Complete Communities BM1 Broadway Plan Complete Communities BM1 ?ayalmaxw/lyálmexw/ Jericho Lands Policy Statement Complete Communities BM1



#### **QUESTIONS**