



CLIMATE EMERGENCY ANNUAL REPORT

2021



Vancouver
Plan





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



ZERO CARBON	Green Buildings	Climate & Renewables		
	Green Transportation			
ZERO WASTE	Zero Waste		Green Economy	Lighter Footprint
HEALTHY ECOSYSTEMS	Access to Nature			
	Clean Water			
	Local Food			
	Clean Air			

3 high-level objectives

10 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

LEADERSHIP BEYOND

Vancouver's actions felt
regionally, nationally, globally

MORE ACCOUNTABILITY

tracking milestones, outcomes,
and expenditures

CO-BENEFITS

better health, green space,
equitable transportation, lower costs

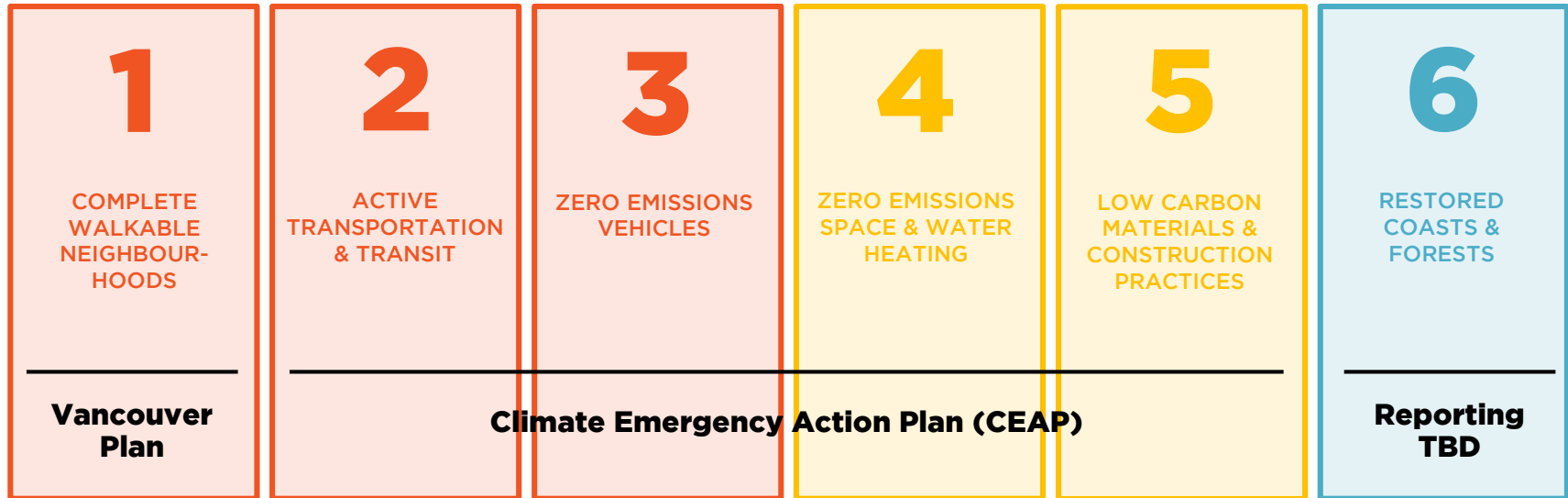
PUBLIC DEMAND ACTION

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

GCAP *handout* for
FINAL INDICATORS

CEAP

6 Big Moves



Vancouver's Carbon Pollution

2007



2020



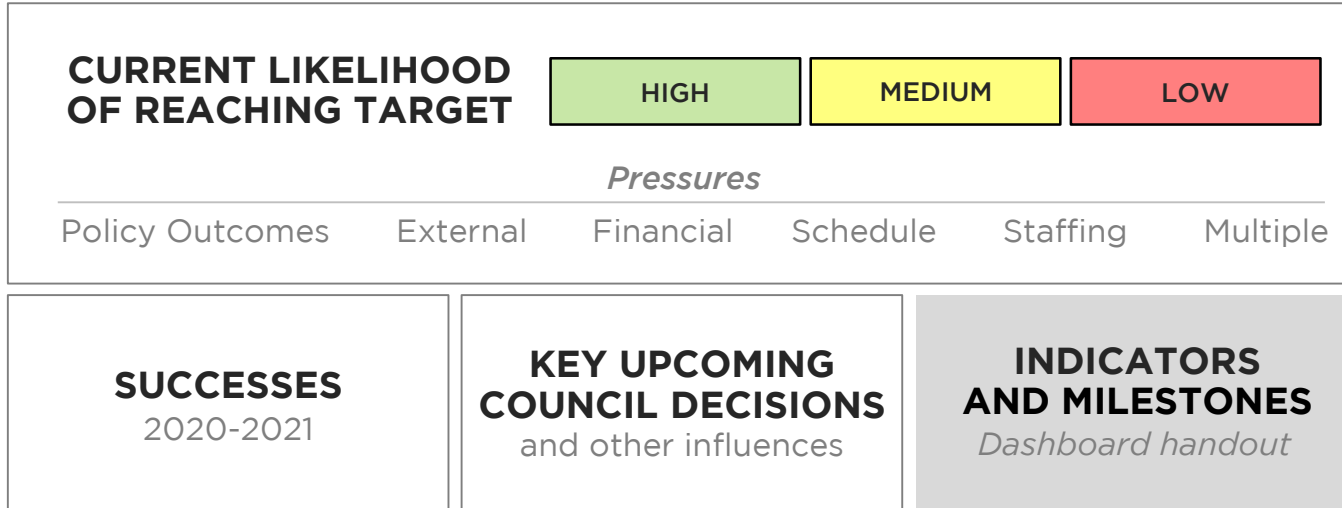
-15%

2030



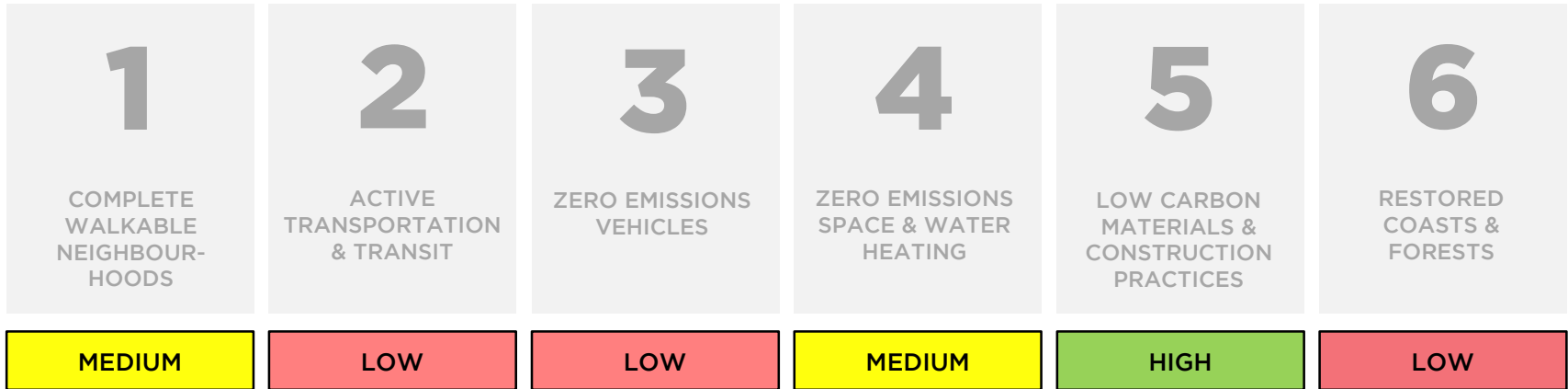
-50%
TARGET

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.

1

COMPLETE WALKABLE COMMUNITIES

*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

1

**COMPLETE
WALKABLE
COMMUNITIES**

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

MEDIUM

Key Decisions

- Streamlining Rentals **2021**
- Broadway Plan **2022**
- Vancouver Plan **2022**
- ʔəyʌlməxw/Iyʌlməxw/Jericho Lands Policy Statement **2022**



2

ACTIVE TRANSPORTATION & TRANSIT

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

Successes

BUS SPEED AND RELIABILITY

transit priority quick-builds; 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

2

ACTIVE TRANSPORTATION & TRANSIT

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**



3

ZERO EMISSIONS VEHICLES

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

EV READINESS STANDARDS

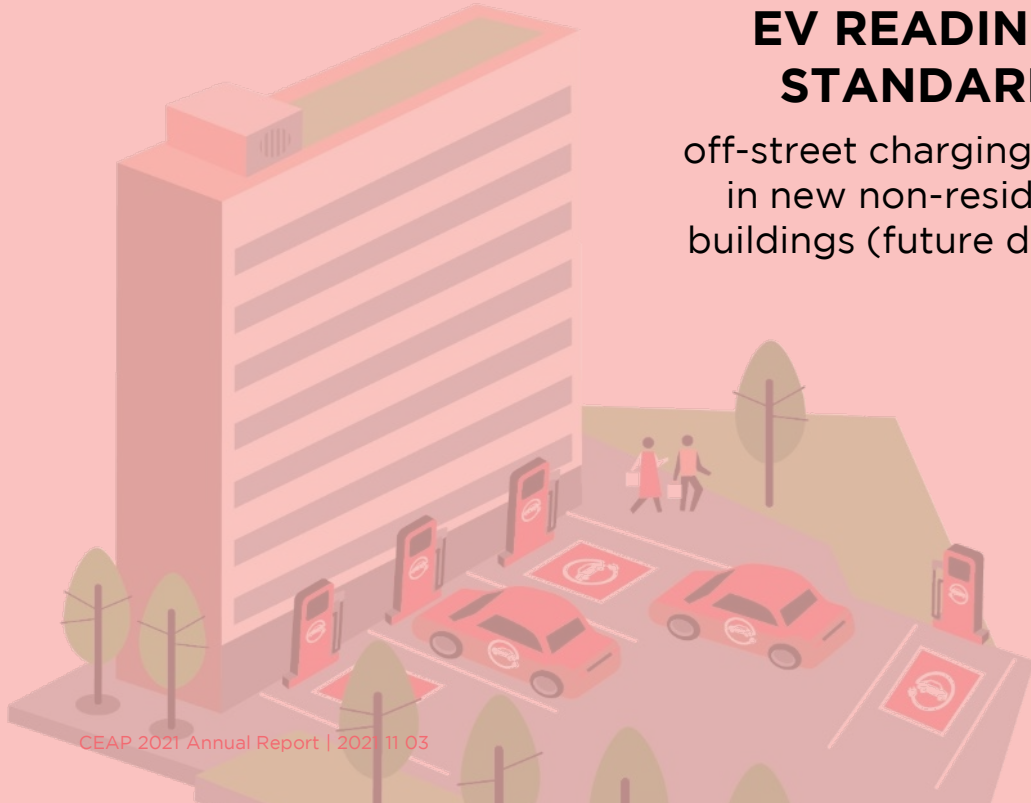
off-street charging for EVs in new non-residential buildings (future demand)

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)



3

ZERO EMISSIONS
VEHICLES

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

4

ZERO EMISSIONS SPACE AND WATER HEATING

*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

4

ZERO EMISSIONS
SPACE AND
WATER HEATING

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

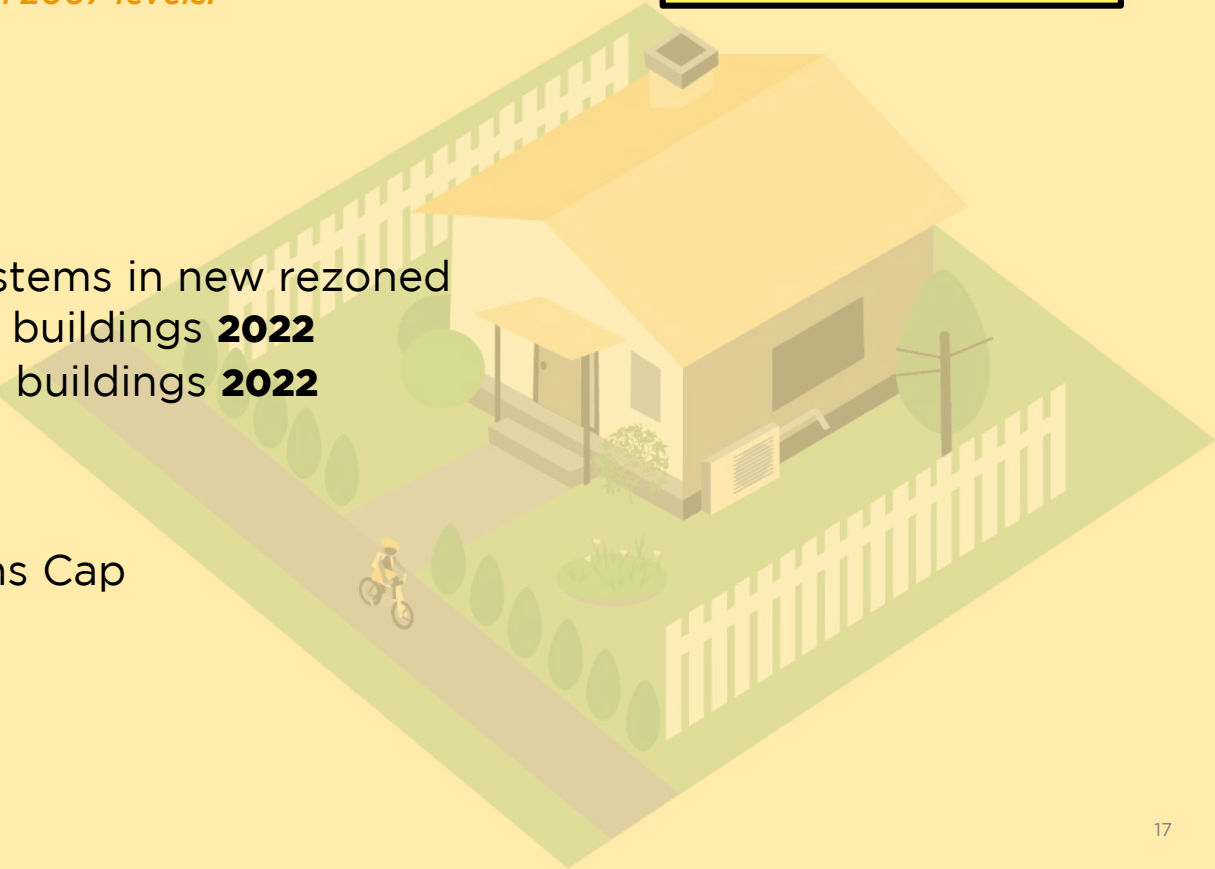
MEDIUM

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



5

LOW CARBON MATERIALS & CONSTRUCTION PRACTICES

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

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

Successes



5

LOW CARBON MATERIALS & CONSTRUCTION PRACTICES

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

6

RESTORED COASTS & FORESTS

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



Green Operations Plan

Successes

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

-24% building GHGs

-52% fleet GHGs

since 2008

ZERO CARBON INDICATORS

see Dashboard handout

CEAP Financial Framework

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

CEAP Financial Framework

COUNCIL APPROVED IN 2020



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

CEAP Financial Framework

2020: COUNCIL APPROVED
CEAP FINANCIAL FRAMEWORK

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

BM1	BM2	BM3	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

CEAP Financial Framework

2020: COUNCIL APPROVED
CEAP FINANCIAL FRAMEWORK

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~\$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.

CEAP Financial Framework

2020: COUNCIL APPROVED
CEAP FINANCIAL FRAMEWORK

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~\$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.

CEAP Financial Framework

~\$230M Funding Gap

	COST-EFFECTIVE MEASURES	SENIOR GOV/PARTNERS	NEW REVENUE	PRIORITY IN NEXT CAPITAL PLAN
5-YR	~\$25-50M	~\$25M	~\$45-70M	~\$95-125M

CEAP Financial Framework

~\$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.

CEAP Financial Framework

~\$230M Funding Gap

COST-
EFFECTIVE
MEASURES

SENIOR GOV/
PARTNERS

5-YR

~\$25-50M

~\$25M

2021

>\$4M

EXTERNAL FUNDING SECURED

TransLink (active transportation)

FCM (building retrofit accelerator, NEU)

CleanBC (heat pump incentive leverage)

CEAP Financial Framework

~\$230M Funding Gap

COST-EFFECTIVE MEASURES SENIOR GOV/ PARTNERS NEW REVENUE

5-YR

~\$25-50M

~\$25M

~\$45-50M

2021

\$0

POTENTIAL REVENUE:

UNDETERMINED AT THIS TIME

CEAP Financial Framework

~\$230M Funding Gap

COST-EFFECTIVE MEASURES SENIOR GOV/ PARTNERS NEW REVENUE

PRIORITY IN NEXT CAPITAL PLAN

5-YR

~\$25-50M

~\$25M

~\$45-70M

~\$95-125M

2021

NEXT STEPS

CEAP projects in 2022 capital budget
Next capital plan is a significant opportunity to consider CEAP funding
Investment strategy may be updated again in 2022

CEAP Financial Framework

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

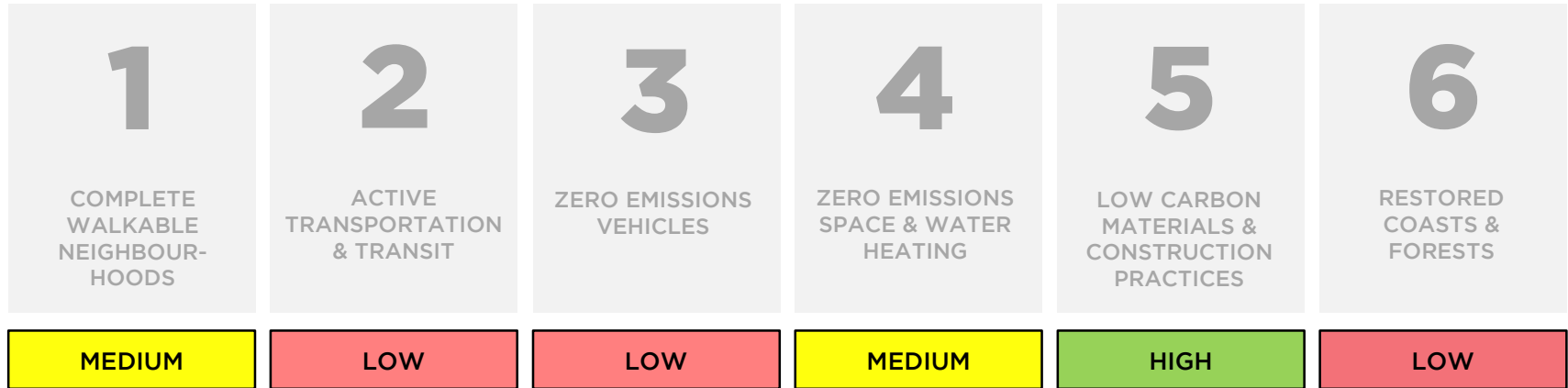
careful Charter scoping
for mid-2022 delivery

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

Streamlining Rentals **BM1**

Heritage Energy Retrofit Grant **BM4**

TBD Nature-Based Climate Solutions **BM6**

Q1 2022

Parking Standards for New Development **BM2**

EV Charging
Gas Stations + Parking Lots **BM3**

EV Charging
Under-Sidewalk **BM3**

GB Policy For Rezoning **BM4/5**

Q2 2022

Transport Pricing Progress Update* **BM2**

Carbon Pollution Limits Detached Homes **BM4**

Carbon Pollution Limits Large Buildings **BM4**

Mass Timber Barrier Removal **BM5**

Vancouver Plan Complete Communities **BM1**

Broadway Plan Complete Communities **BM1**

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Jericho Lands Policy Statement Complete Communities **BM1**

Q3 2022

Climate Justice Charter **BM1-6**



QUESTIONS