are you prepared to lose all of this?
agenda

CONTEXT
PROCESS
OVERVIEW OF ACTIONS
ACCOUNTING FOR EQUITY
OUR FINANCIAL APPROACH
RECOMMENDATIONS
SUMMARY
NEXT STEPS
VANCOUVER’S CARBON POLLUTION

54% natural gas use in buildings

39% gas and diesel in vehicles

2% electricity

4% waste

City of Vancouver 2019 emissions inventory (GPC, Scopes 1 and 2)
Due to rounding, numbers presented may not add up to exactly 100%
Climate Emergency
6 Big Moves

1. Complete Walkable Neighbourhoods
2. Active Transportation + Transit
3. Zero Emissions Vehicles
4. Zero Emissions Space + Water Heating
5. Low Carbon Materials + Construction Practices
6. Restored Coasts + Forests

Vancouver Plan

Climate Emergency Action Plan (CEAP)

Reporting in 2021
CEAP was developed by carefully weighing the following inputs:

- Engagement
- Technical
- Environmental
- Financial
engagement summary

internal + external stakeholders
intergovernmental + utilities
public

representative survey
outreach team
climate + equity working group
PUBLIC COMFORT WITH BIG MOVE ACTIONS
City-issued public survey, Feb-May 2020

12,919 responses. Percentages represent the proportion of respondents who indicated they were comfortable, neutral, or uncomfortable with the Big Move actions.
overview of actions
Implement transport pricing in the Metro Core

Expand + improve walking/rolling + biking network

Promote remote + flexible work options

Eliminate parking minimums + introduce maximums for parking in new developments

Improve bus speed + reliability

Implement residential parking permits city-wide
2 ACTIVE TRANSPORTATION + TRANSIT

Expand + improve walking/rolling + biking network

Promote remote + flexible work options

Encourage more walking, biking + transit use

Implement transport pricing in the Metro Core

Improve bus speed + reliability

Eliminate parking minimums + introduce maximums for parking in new developments

Implement residential parking permits city-wide
3 ZER0 EMISSIONS VEHICLES

- Implement carbon pollution surcharge on residential parking permits
- Expand the public charging network
- Increase EV charging on private property
- Support EV charging for passenger fleets
Implement carbon pollution surcharge on residential parking permits

Expand the public charging network

Increase EV charging on private property

Support EV charging for passenger fleets
ZERO EMISSIONS VEHICLES

Implement carbon pollution surcharge on residential parking permits

Expand the public charging network

Increase EV charging on private property

Support EV charging for passenger fleets
4 ZERO EMISSIONS SPACE + WATER HEATING

Set carbon pollution limits + streamline regulations

Build industry capacity
Support early owner action
Facilitate transition to renewable energy
ZERO EMISSIONS SPACE + WATER HEATING

Build Industry capacity

Support early owner action

Facilitate access to renewable energy

Set carbon pollution limits + streamline regulations
working together

Government of Canada
Government of BC
Metro Vancouver
TransLink
BC Hydro
FortisBC
and more...
VANCOUVER’S CARBON POLLUTION

Modelled scenarios

2030 TARGET FOR 1.5°C

3.0M tonnes CO2e/year

2.5M - 2007

2.0M - 2020

1.5M - 2025

1.0M - 2030

0.5M -

0.0M -

No new policies

CEAP (range)

CEAP + CleanBC (range)
Resident and business investment and savings

$1.3B investment

$2.2B savings

~$1B

Resident and Business Savings
benefits

financial savings
economic growth
Improved health
and more...
accounting for equity
Collingwood Neighbourhood House
Disability Alliance BC
Downtown Eastside Women’s Centre
EmpowerMe
Ethós Lab
Grey to Green Sustainable Solutions
Hua Foundation
MOSAIC
Mount Pleasant Neighbourhood House - Indigenous Community Developer

climate and equity working group

Offsetters
Recycling Alternative
UBC Climate Hub
Vancouver Aboriginal Friendship Centre Society
Individual - green building professional
Individual - Indigenous architect intern, SCARP PhD student
Individual - 2019 RISE Ambassador
Summary of equity reviews

- **Canadian Centre for Policy Alternatives**: Engagement material review
- **HUA Foundation**: Draft action plan review
- **Toronto Environmental Alliance**: Draft action plan review
1 minimize burdens for those already struggling
2 higher expectations for those who can afford it
3 identifying & resourcing work needed to go deeper
4 accountability via equity milestones

(climate justice charter, indicators)
our financial approach
financial framework overview

action plan drafted to meet CEAP targets

financial strategy developed to ensure actions have adequate funding
~$500M REQUIRED SPEND over five years to meet targets

~$70M  BM1

~$288M  BM2

~$78M  BM3

~$57M  BM4
~$500M REQUIRED SPEND over five years to meet targets

~$270M BASELINE SPEND assumes maintenance of 2020 funding

REMAINING FUNDING GAP
**proposed funding approaches**

1. **using more cost-effective, interim measures while achieving carbon outcomes**

2. **using new revenue to fund CEAP actions**

3. **leveraging sr. government + partner funding**

4. **prioritizing CEAP in next capital plan**
~$500M REQUIRED SPEND
over five years to meet targets

~$270M BASELINE SPEND assumes maintenance of 2020 funding

~$25-50M COST-EFFECTIVE MEASURES

~$25M SR. GOVERNMENT/PARTNERS

~$45-50M NEW REVENUE

~$95-125M PRIORITY IN NEXT CAPITAL PLAN
what’s next
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>2019</td>
<td>Climate Emergency declared</td>
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<tr>
<td>2020</td>
<td><strong>2020-2025 Climate Emergency Action Plan</strong></td>
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<tr>
<td>2021</td>
<td>Series of CEAP-related Council reports*</td>
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<tr>
<td></td>
<td>1st Annual CEAP Progress Report/Final GCAP Report</td>
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<tr>
<td>2022-2024</td>
<td>Additional policy reports</td>
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<td></td>
<td>Annual Progress Updates VanPlan report</td>
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<tr>
<td>2025</td>
<td><strong>2025-2030 Climate Emergency Action Plan</strong></td>
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</tbody>
</table>
SELECT REPORTS IN 2021

1. Walkable, Complete Neighbourhoods
   • near-term actions to support existing neighbourhood retail + commercial amenities

2. Active Transportation + Transit
   • eliminate parking minimums (except for accessibility needs)
   • residential parking permits city-wide (first stage)

3. Zero Emissions Vehicles
   • EV charging standards: new non-residential buildings
   • carbon pollution surcharges (first stage): residential parking permits
SELECT REPORTS IN 2021

4. Zero Emissions Space + Water Heating
   - carbon limits: large commercial buildings + detached homes

5. Low-Carbon Materials + Construction Practices
   - rezoning policy update: first embodied emissions target(s) for new construction

6. Restored Coasts + Forests
   - target for Vancouver to capture carbon + progress update
QUESTIONS?
THANK YOU