

Environment and Climate Task Force Meeting Agenda

Wednesday, February 8, 2023, 9:00 a.m.

Meeting held electronically and in Committee Room 2
City Hall

We recognize and respect that New Westminster is on the unceded and unsundered land of the Halkomelem speaking peoples. We acknowledge that colonialism has made invisible their histories and connections to the land. As a City, we are learning and building relationships with the people whose lands we are on.

	Pages
1. <u>CALL TO ORDER AND LAND ACKNOWLEDGEMENT</u> The Chair will open the meeting and provide a land acknowledgement.	
2. <u>INTRODUCTIONS</u>	
3. <u>CHANGES TO THE AGENDA</u> Additions or deletion of items.	
4. <u>ADOPTION OF MINUTES FROM PREVIOUS MEETINGS</u>	4
5. <u>REPORTS AND PRESENTATIONS</u> Staff and guest reports and presentations for information, discussion, and/or action	
5.1 <u>BC Building Code Updates: Step Code and Carbon Pollution Standard</u> Presented by: Penny Page-Brittin, Community Energy and Emissions Specialist	8
5.2 <u>Climate Action Team Work Planning Workshop</u> Presented by: Leya Behra, Manager, Climate Action	21
6. <u>UNFINISHED BUSINESS FROM PREVIOUS MEETINGS</u>	
7. <u>STANDING REPORTS AND UPDATES</u> Regular and ongoing reports from staff or members for information and	

discussion.

8. NEW BUSINESS

Items added to the agenda at the beginning of the meeting.

9. MOTION TO MOVE THE MEETING INTO CLOSED MEETING

Recommendation

THAT the Environment and Climate Task Force will now go into a meeting which is closed to the public in accordance with Section 90 of the Community Charter, on the basis that the subject matter for all agenda items relate to matters listed under sections:

(1)(a)personal information about an identifiable individual who holds or is being considered for a position as an officer, employee or agent of the municipality or another position appointed by the municipality;

(1)(b)personal information about an identifiable individual who is being considered for a municipal award or honour, or who has offered to provide a gift to the municipality on condition of anonymity;

(1)(c)labour relations or other employee relations;

(1)(d)the security of the property of the municipality;

(1)(e)the acquisition, disposition or expropriation of land or improvements, if the council considers that disclosure could reasonably be expected to harm the interests of the municipality;

(1)(f)law enforcement, if the council considers that disclosure could reasonably be expected to harm the conduct of an investigation under or enforcement of an enactment;

(1)(g)litigation or potential litigation affecting the municipality;

(1)(h)an administrative tribunal hearing or potential administrative tribunal hearing affecting the municipality, other than a hearing to be conducted by the council or a delegate of council;

(1)(i)the receipt of advice that is subject to solicitor-client privilege, including communications necessary for that purpose;

(1)(j)information that is prohibited, or information that if it were presented in a document would be prohibited, from disclosure under section 21 of the Freedom of Information and Protection of Privacy Act;

(1)(k)negotiations and related discussions respecting the proposed provision of a municipal service that are at their preliminary stages and that, in the view of the council, could reasonably be expected to harm the interests of the

municipality if they were held in public;

(1)(l) discussions with municipal officers and employees respecting municipal objectives, measures and progress reports for the purposes of preparing an annual report under section 98 [annual municipal report];

(1)(m) a matter that, under another enactment, is such that the public may be excluded from the meeting;

(1)(n) the consideration of whether a council meeting should be closed under a provision of this subsection or subsection (2);

(1)(o) the consideration of whether the authority under section 91 [other persons attending closed meetings] should be exercised in relation to a council meeting.

(2)(a) a request under the Freedom of Information and Protection of Privacy Act, if the council is designated as head of the local public body for the purposes of that Act in relation to the matter;

(2)(b) the consideration of information received and held in confidence relating to negotiations between the municipality and a provincial government or the federal government or both, or between a provincial government or the federal government or both and a third party;

(2)(c) a matter that is being investigated under the Ombudsperson Act of which the municipality has been notified under section 14 [Ombudsperson to notify authority] of that Act;

10. END OF MEETING

11. UPCOMING MEETINGS

Remaining scheduled meetings for 2023 are to be determined.

ENVIRONMENT AND CLIMATE TASK FORCE MINUTES

**Monday, June 13, 2022
Meeting Held Electronically**

PRESENT:

Mayor Jonathan Cote, Chair
Councillor Patrick Johnstone
Councillor Nadine Nakagawa

STAFF:

Emilie Adin, Director of Climate Action, Planning and Development
Rod Carle, General Manager, Electrical Utility
Lisa Leblanc, Director of Engineering Services
Lynn Roxburgh, Acting Supervisor of Land Use Planning and Climate Action
Harji Varn, Chief Financial Officer, Director of Finance
Nayal Halim, Community Energy and Emissions Specialist, Climate Action
Meredith Seeton, Policy Planner, Climate Action, Planning and Development
Corrinne Garrett, Senior Manager Recreation Facilities and Programs
Kwaku Agyare-Manu, Senior Manager, Engineering Services

ABSENT:

Lisa Spitale, Chief Administration Officer
Dean Gibson, Director of Parks and Recreation
Denise Tambellini, Intergovernmental and Community Relations Manager

1. CALL TO ORDER AND LAND ACKNOWLEDGEMENT

Mayor Cote opened the meeting at 1:00 p.m. and recognized with respect that New Westminster is on the unceded and unsurrendered land of the Halkomelem speaking peoples. He acknowledged that colonialism has made invisible their histories and connections to the land. He recognized that, as a City, we are learning and building relationships with the people whose lands we are on.

2. CHANGES TO THE AGENDA

No Items.

3. ADOPTION OF MINUTES FROM PREVIOUS MEETINGS

MOVED AND SECONDED

THAT the minutes of the Environment and Climate Task Force meeting held on April 4, 2022 be adopted.

Carried.

All members present voted in favour of the motion.

4. REPORTS AND PRESENTATIONS

Staff and guest reports and presentations for information, discussion, and/or action

4.1 Community and Energy Emissions Plan (CEEP) Update

Nayel Halim, Community Energy and Emissions Specialist, Climate Action, gave a presentation highlighting:

- Progress Update
- Engagement Summary and Feedback
- CEEP Draft Structure
- Next Steps

Discussion continued on:

- Task Force support for the following:
 - staff targeting Fall 2022 for Council adoption of CEEP
 - community consultation Summer 2022
 - a special Environment and Climate Task Force meeting in July 2022 if required
- Adding “Part 3” referencing equity to the Draft CEEP structure
- The importance of emphasizing transportation and buildings as key action areas since they contribute the biggest sources of emissions.
- Plan to connect with the Electrical Utilities Commission

Direction/Action:

1. Provide a brief pre-draft to Task Force members for review/comment prior to community engagement

2. Present draft plan to Council (provide short report to Council if draft is not ready)
3. Summer consultation
4. Bring draft actions to the Electrical Utilities Commission for discussion

4.2 Proposed Energy Step Code Acceleration Update

Nayel Halim, Community Energy and Emissions Specialist, Climate Action, gave a presentation highlighting:

- Environment and Climate Advisory Committee Motion –proposed Energy Step Code Acceleration
- New Westminster's Step Code Requirements
- Proposed Step Code Requirements
- Considerations and Next Steps

Discussion continued on:

- Task Force support for accelerating Energy Step Code for single detached dwellings in 2023
- Feasibility to accelerate composition of renewable natural gas fast enough to meet provincial and federal climate action targets
- In response to a question from a Task Force member regarding low carbon energy system measures including cooking appliances, N. Halim responded yes, the measures encompass everything utilizing natural gas
- In response to a question from a Task Force member inquiring how to ensure the step codes will be adhered to, N. Halim responded that this connects to the building code that are anticipated to come into effect next year. The carbon metric incorporated will essentially give the municipality the ability to no longer allow natural gas connections for new construction
- In response to a question from a Task Force member on whether the building industry is ready/will this step code create significant delays in housing, N. Halim responded that housing affordability is a key consideration. The City of New Westminster will be presenting a 2 option framework providing step code options to builders to ensure there are no major delays in constructing housing. The City is also waiting for the Province's costing analysis report for review and to be included in further research. The incentive rich environment that supports building electrification has helped to minimize costs for

builders that build to the lower step option (with low carbon energy system)

- Implementation of requirements, build staff capacity, internal process and protocol –follow CEEP recommendations and adoption to stay on track for 2025-2030
- Alignment with other municipalities
- Keeping communications open with natural gas providers
- Engagement with stakeholders and builders
- Tracking metrics
- Review of Utilities Commission updates

Direction/Action:

1. Review recent discussion and action taken by the Electrical Utilities Commission

5. **NEW BUSINESS**

No Items.

6. **END OF MEETING**

The meeting ended at 2:01 p.m.

7. **UPCOMING MEETINGS**

Remaining scheduled meetings for 2022, which take place at 1:00 p.m. unless otherwise noted:

- November 21 **at 9:00 a.m. - Cancelled**

MAYOR COTE
CHAIR

MERSIHA BESIC
RECORDING SECRETARY



Environment and Climate Action Task Force

BC Building Code Updates – Carbon Pollution Standard

Feb 8, 2023



NEW WESTMINSTER

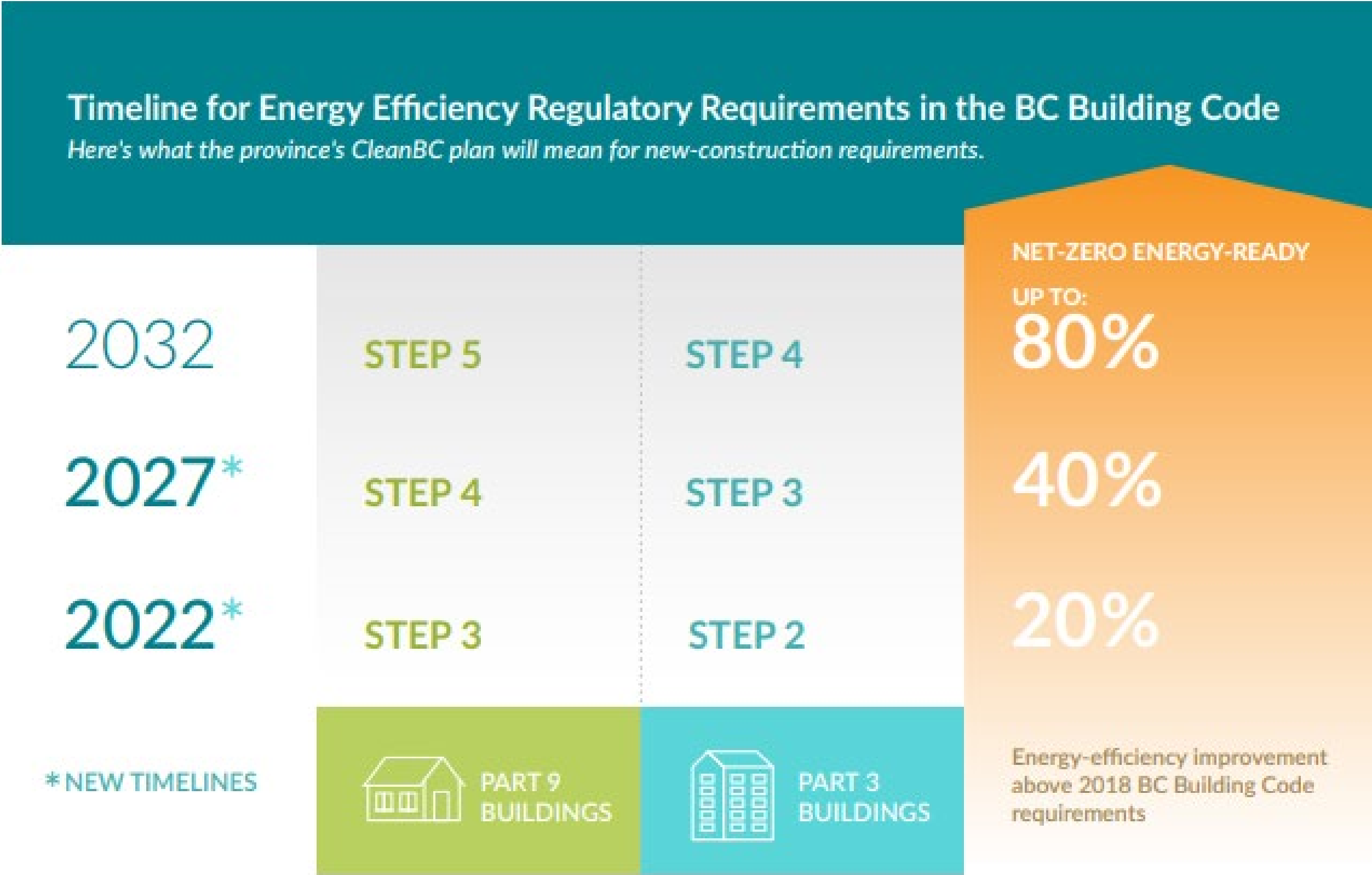
Overview

- BC Building Code update – Energy Efficiency
- New West Step Code Requirements
- BC Building Code update – Greenhouse Gas Emissions
- Considerations for reducing Greenhouse Gas Emissions in new construction
- Question and Discussion

Questions for the Environment and Climate Task Force

Does the Task Force support reducing GHG Emissions through the proposed Provincial Carbon Pollution Standard or by using a Low Carbon Energy System (LCES) incentive approach?

BC Building Code Update – Energy Efficiency



Step Code and GHGi by Fuel Source



BC Building Code Update – GHG Emissions

- Proposed Carbon Pollution Standard
- Local Government can choose to reference in their Building Bylaw
- Metrics can be confusing?
 - Carbon Pollution
 - GHG Emissions
 - Operational Carbon
 - Embodied Carbon
 - GHGi
 - Absolute Emissions
 - Low Carbon Energy System (LCES)

Carbon Pollution Standard

Establishes maximum modeled emissions levels for new construction

Measure only	
Medium Carbon	Decarbonize either space heating or hot water
Low Carbon	Decarbonize both space heating and hot water
Zero Carbon Ready	Decarbonize all systems

Limits GHG from buildings – not energy sources to buildings

*Province-wide carbon requirements may take effect in 2024 and 2027, with zero carbon new construction required by 2030

Low Carbon Energy System

Council Resolution on LCES:

Energy Step Code acceleration for single detached dwellings with a step down Low Carbon Energy System (LCES) option

A high Step (e.g.)

Step 5

OR

A lower Step (e.g.)

Step 3

and a Low carbon energy system

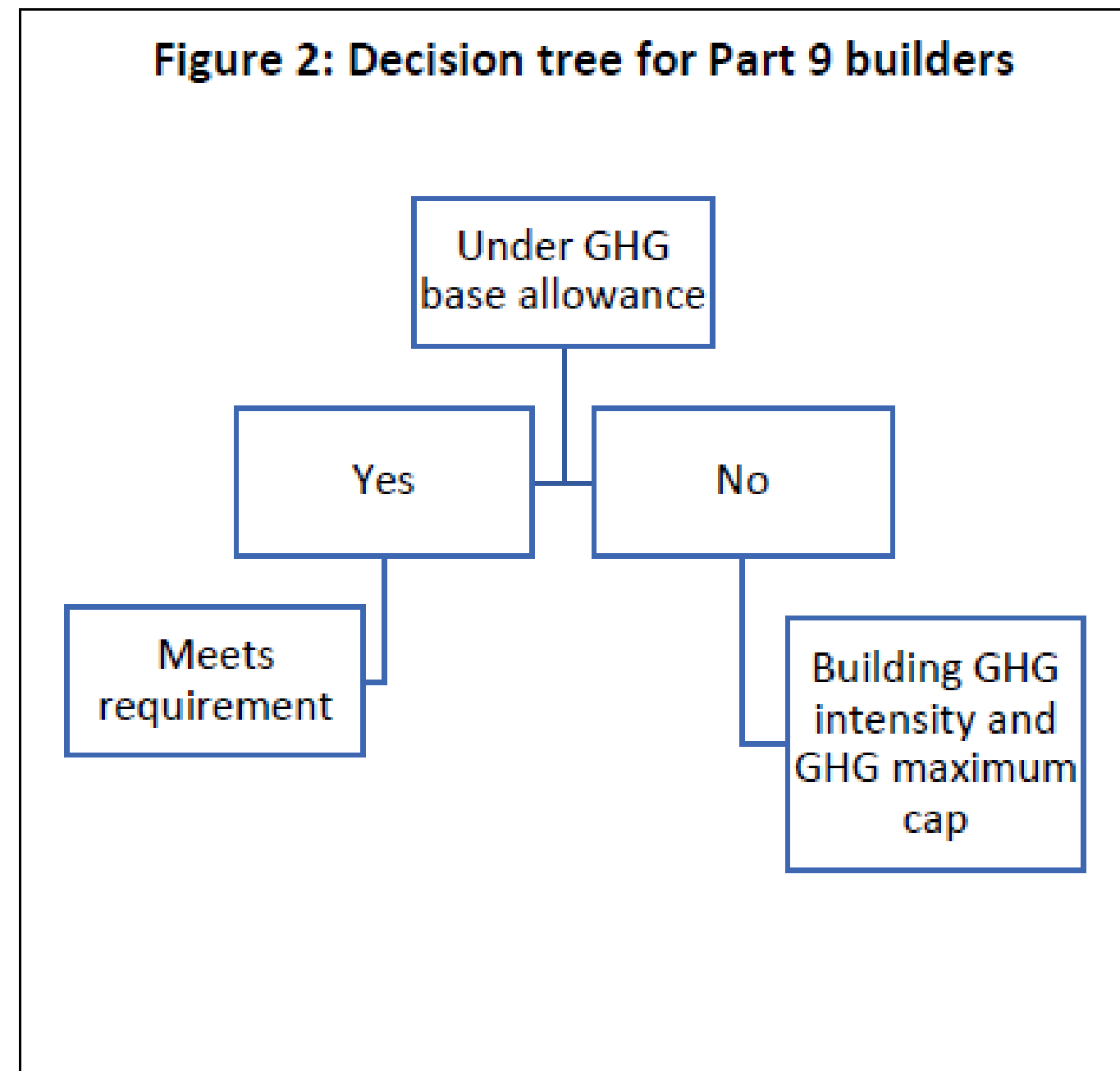
Questions for the Environment and Climate Task Force

Does the Task Force support reducing GHG Emissions through the proposed Provincial Carbon Pollution Standard or by using a Low Carbon Energy System (LCES) incentive approach?

Appendix Slides – Carbon Pollution Standard Metrics

GHG Metrics for Part 9 Buildings

Figure 2: Decision tree for Part 9 builders



GHG Metrics for Part 9 Buildings

Path 1

GHG Base Allowance <i>(ideal for small houses)</i>	
	kg CO ₂ e per unit
Medium	1050
Low	440
Zero Carbon Ready	265

Path 2 (if building exceeds base allowances above)

	Building GHG Intensity <i>(ideal for medium-sized houses)</i>	AND	GHG Maximum Cap <i>(limits emissions of the largest houses)</i>
	kgCO ₂ e/m ² /year		kg CO ₂ e per unit
Medium	6		2400
Low	2.5		800
Zero Carbon Ready	1.5		500

GHG Metrics for Part 3 Buildings

Figure 1: Proposed Part 3 metrics

(all GHGI targets in kgCO ₂ e/m ² /year)	Medium	Low	Zero Carbon Ready
MURB	7	3	1.8
Office	5	3	1.5
Retail	6	3	2
Hotel	9	4	2



Climate Action Team Work Planning Workshop

ENCTF 06-Feb-2023



NEW WESTMINSTER

Overview

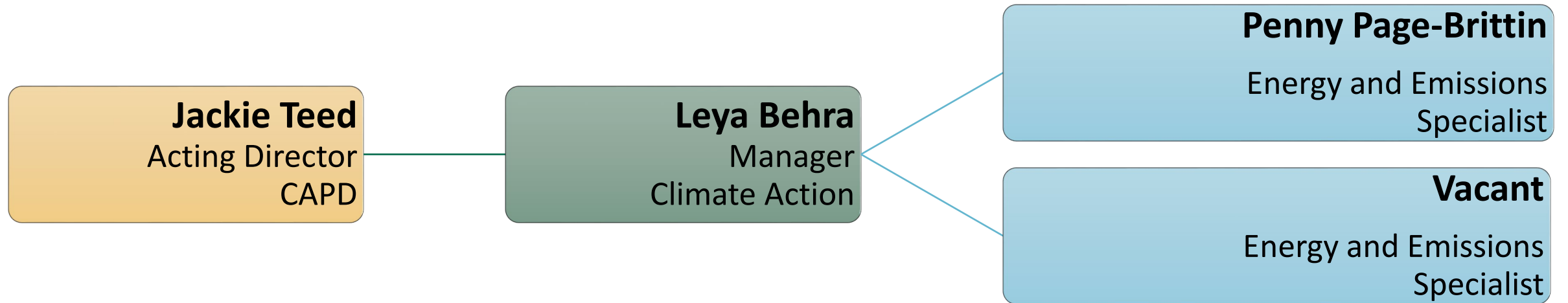
1. Climate Action Team Areas of Focus
2. Pathway to 2050: Implementation Strategies
3. CAT Proposed 2023 Work Plan
4. Questions and Discussion

Questions for the Task Force

1. Do the areas of focus for the Climate Action Team align with the expectations of the Task Force?
2. Is there an existing Implementation Action that the Task Force believes needs to be advanced in 2023 that is not currently within the scope of the CAT Proposed 2023 Work Plan?
If Yes: Is there an existing proposed work plan item(s) that should be postponed?

Staff will assess this feedback and report back on work plan implications.

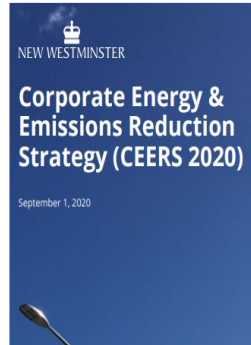
Climate Action Team – Who?



Climate Action Team Areas of Focus

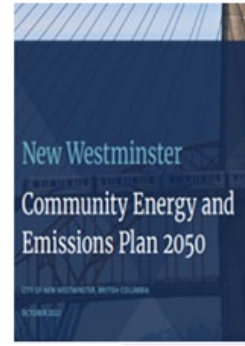


Pathway to 20250: Implementation of Strategies



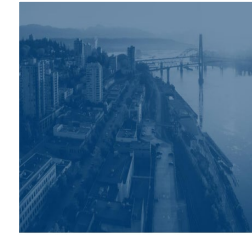
CEERS

• 25
Actions



CEEP2050

• 63
Actions

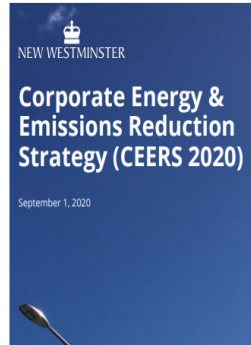


eMobility Strategy
Supporting New Westminster's Bold Steps for
Climate Action

eMobility

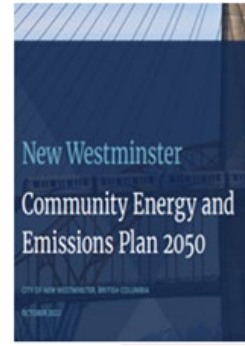
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Actions

Implementation Actions



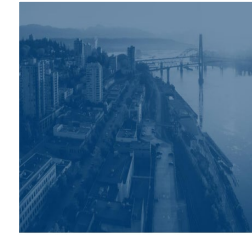
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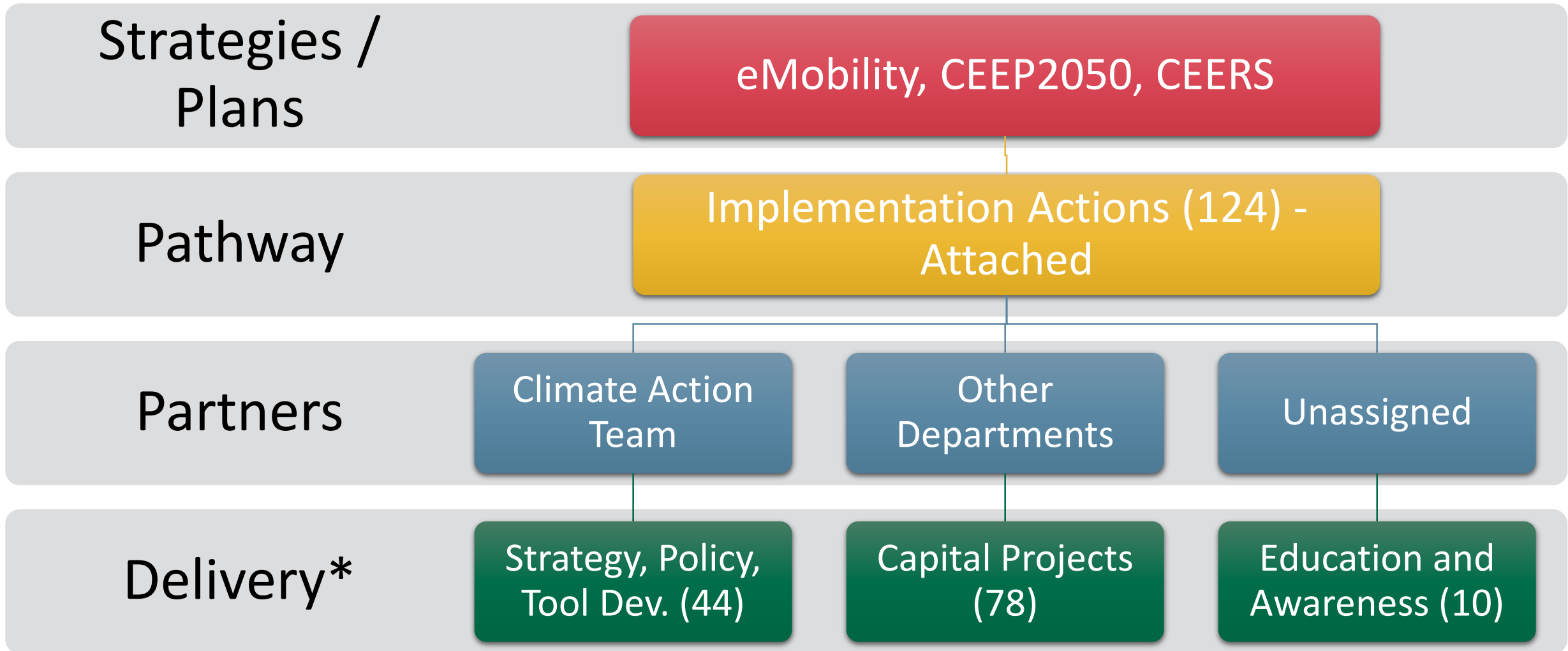
eMobility Strategy
Supporting New Westminster's Bold Steps for
Climate Action

eMobility

• 36
Actions

11 Categories

Transportation, Buildings, Energy, Waste and Circular Economy, Natural Systems, Lighting and Water, Corporate Policies, eMicromobility, Electric Vehicles, Utility, Implementation



*Total > 124: Some actions, as written, contain multiple elements.

CAT Focus Areas Beyond Implementation Actions



CAT Proposed 2023 Work Plan

Included (Sample List – Full Plan Attached)

- Decision Making Framework and Corporate Policy
 - Additional policies and tools anticipated to be identified through Decision Making Framework
- ESNW Program Design and Delivery
 - One-Stop shop model implementation for Heat Pumps (with extension to other program offerings)
 - Review and expansion of EmpowerMe programming
 - Investigate Strata and Rental building program expansions
- Step Code Acceleration and Carbon Pollution Standard Adoption Plan to 2023 (~2 year action item)
 - Identification and scheduling of engagement, capacity building, etc.
- Regulatory reporting

Not Included (Sample List)

- Adaptation and Resilience Plan development
- Emergency Management support
- Education and Awareness
- Reporting Dashboard (KPI Phase 2)
- Grant Applications / Funding Mechanism Eligibility Research

Questions for the Task Force

1. Do the areas of focus for the Climate Action Team align with the expectations of the Task Force?
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If Yes: Is there an existing proposed work plan item(s) that should be postponed?

Staff will assess this feedback and report back on work plan implications.

Questions and Discussion

Climate Action Team - Strategy Implementation Actions

Item	Plan/ Strategy	Category	Sub-Category	Action	GHG Reductions	Benefits	Resources	Timeline
1	CEEP2050	Transportation	eMobility	Collaborate with Metro Vancouver and other partners to advocate to senior governments to support the transition to zero emissions medium and heavy duty vehicles.	>25,000	Health, Resilience	Current Staffing	Medium-Term
2	CEEP2050	Buildings	Existing Buildings	Increase the supports and programs for energy retrofits for existing residential, institutional, commercial, and industrial buildings, including by: a. prioritizing the unique retrofit needs of existing multiunit residential buildings, especially rental buildings; b. focusing on the least efficient building stock (pre-1980); c. adapting retrofit strategies to work with heritage and character buildings; d. collecting and analyzing energy and spatial data of existing buildings to identify priority building archetypes and optimal strategies to support energy retrofits; e. exploring innovative financing mechanisms and tools to support retrofits (e.g. on-bill financing, green revolving load funds, or Property Assessed Clean Energy Financing (PACE)); and f. exploring one-stopshop models of retrofit management.	>25,000	Equity, Health, Resilience	\$100,000-\$500,000	Short-term
3	CEEP2050	Buildings	Existing Buildings	Advocate to senior government and agencies to increase incentives and financing programs for energy retrofits, particularly for multi-unit residential buildings.	>25,000	Equity, Health, Resilience	Current Staffing	Short-term
4	CEEP2050	Buildings	Existing Buildings	Explore incentivizing transitioning from fossil fuels to low carbon energy sources, and when legislation changes, regulate fuel sources in existing buildings.	>25,000	Health	Current Staffing	Short-term
5	CEEP2050	Buildings	New Buildings	Incentivize low carbon energy systems in new buildings, including by implementing a two option framework for Step Code compliance for Part 9 buildings (smaller residential buildings) in 2023 (allowing construction either to Step 5, or to Step 3 with installation of or connection to a low carbon energy system).	10,000 - 25,000 tonnes	Equity, Health, Resilience	N/A	Short-term
6	CEEP2050	Buildings	New Buildings	As legislation changes to allow fuel sources to be regulated through GHG intensity, ensure City regulations require low carbon energy sources for new buildings	10,000 - 25,000 tonnes	Equity, Health, Resilience	N/A	Medium-Term
7	CEEP2050	Buildings	New Buildings	Require maximum BC Energy Step Code tier for residential and nonresidential buildings before 2030.	10,000 - 25,000 tonnes	Equity, Health, Resilience	N/A	Medium-Term
8	CEEP2050	Buildings	New Buildings	Identify appropriate performance standards for institutional and industrial buildings, and encourage meeting these standards through policy.	10,000 - 25,000 tonnes	Equity, Health, Resilience	N/A	Medium-Term
9	CEEP2050	Buildings	All Buildings	Explore ways to define low- carbon energy systems to include systems such as electric heat pumps, connection to low- carbon district energy, or on-site renewable energy, but exclude fuels such as RNG; and advocate to the Province for a similar approach in provincial legislation.	>25,000	Resilience	Current Staffing	Short-term
10	CEEP2050	Buildings	All Buildings	Continue to support and participate in pilot projects targeting energy performance improvements that are advanced by partners, the community, or the development sector, and assist in disseminating lessons learned.	<10,000 tonnes	Resilience	Current Staffing	Ongoing
11	CEEP2050	Buildings	All Buildings	Continue to offer educational opportunities to the building industry, and explore ways to support industry training to enable adaptation to high performance building standards and lead the way on innovative buildings.	>25,000	Health Resilience	Current Staffing	Ongoing
12	CEEP2050	Buildings	All Buildings	Advocate to the Province for the development of a mandatory energy labelling and benchmarking program for buildings and, in the interim, explore tools the City can use to encourage voluntary energy disclosure.	<10,000 tonnes	Equity Health Resilience	current Staffing	Short-term
13	CEEP2050	Energy	Conservation and Demand Management	Work with Electric Utility and BC Hydro to implement energy conservation and demand management strategies, including continuing to ensure New Westminster customers have access to programs offered by BC Hydro or an equivalent program offered by the City.	10,000 - 25,000 tonnes	Resilience	current Staffing	Short-term

Climate Action Team - Strategy Implementation Actions

Item	Plan/ Strategy	Category	Sub-Category	Action	GHG Reductions	Benefits	Resources	Timeline
14	CEEP2050	Energy	Conservation and Demand Management	Advocate to senior levels of government to adjust carbon pricing over time, or consider a regional carbon price supplement, to prompt industry emissions reduction.	>25,000	Equity Resilience Health	current Staffing	Short-term
15	CEEP2050	Energy	District Energy and Waste Heat Recovery	Explore opportunities to encourage on-site waste heat recovery systems in buildings with a net positive internal rate of return.	10,000 - 25,000 tonnes	Resilience	<\$100,000	Short-term
16	CEEP2050	Natural Systems	Natural Systems	Develop an adaptation strategy that outlines principles and actions to mitigate climate related risks and build climate resilience, emphasizing natural capital and opportunities for ecological benefits.	<10,000 tonnes	Health Resilience Equity	<\$100,000	Short-term
17	CEEP2050	Waste and Circular Economy	Waste Reduction	Support Metro Vancouver in its update to and implementation of the Regional Solid and Liquid Waste Management Plans, and advocate for a stronger climate lens in these regional plans, including: a. Applying an emissions reduction lens to efforts to strengthen the market for recycling and recycled materials, expand Extended Producer Responsibility, and pursue circular economy opportunities; and b. Enhanced GHG emissions capturing methane (biogas) from landfills, expanding low emissions waste-to-energy facilities as appropriate, and reducing emissions from organics.	<10,000 tonnes	Resilience	Current	Ongoing
18	CEEP2050	Transportation	eMobility	Support the achievement of TransLink's regional Transport 2050 goal of transitioning to zero emission vehicles, including by: a. Increasing availability and access to electric bikes, scooters, and other forms of electric micromobility; b. accelerating the electrification of light-duty passenger vehicles; and c. supporting the transition of medium and heavy-duty vehicles to low emissions in the short-term and zero emissions over the long-term.	>25,000	Equity, Health, Resilience	>\$500,000	Ongoing
19	CEERS	Transportation	Fleet	Strategy #5: Develop an integrated corporate and community EV Strategy	N/A		\$100,000- \$500,000	MT
20	CEERS	Policies	Implementation Strategies	Strategy #23: Establish a protocol to implement internal Carbon Pricing	N/A		N/A	ST
21	CEERS	Transportation	Fleet	Strategy #15: Continue to review the corporate Vehicles Driven Home Policy	>50 tonnes		<\$100,000	ST
22	eMobility	eMicromobility	Enhance e- bike accessibility	Advocate for e-bike incentive program(s) and promote current e-bike incentives			N/A	Short Term
23	eMobility	Electric Vehicles	Improve access to EV charging in public spaces	Complete detailed street-level mapping of EV infrastructure gaps			<\$100,000	Short Term
24	eMobility	Electric Vehicles	Improve access to EV charging at home	Advocate for EV-Ready retrofit requirements			N/A	Short Term
25	eMobility	Electric Vehicles	Improve access to EV charging at home	Advocate to include EV-Ready retrofits in financing programs			N/A	Short Term
26	eMobility	Electric Vehicles	Support affordability of EVs	Advocate to ensure current EV purchase incentive level is maintained to 2030			N/A	Ongoing
27	eMobility	Electric Vehicles	Support affordability of EVs	Advocate to expand efforts to 'scrap' internal combustion engine vehicles			N/A	Ongoing
28	eMobility	Utility	Proactively manage electricity grid impacts of EV charging	Continue to monitor EV uptake and forecast the anticipated impacts of adoption			N/A	Short Term
29	eMobility	Implementation	Successfully implement the eMobility Strategy	Leverage external funding opportunities			<\$100,000	Short Term
30	eMobility	Implementation	Successfully implement the eMobility Strategy	Apply an equity lens to implementation and engage with equity-denied groups			<\$100,000	Short Term

Climate Action Team - Strategy Implementation Actions

Item	Plan/ Strategy	Category	Sub-Category	Action	GHG Reductions	Benefits	Resources	Timeline
31	eMobility	Implementation	Successfully implement the eMobility Strategy	Create an action prioritization tool			<\$100,000	Short Term
32	eMobility	Implementation	Successfully implement the eMobility Strategy	Monitor and report on the Strategy under the Climate Action and Environment Key Performance Indicators			N/A	Ongoing
33	eMobility	Electric Vehicles	Improve access to EV charging at home	Explore developing a program to provide financial incentives for MURB EV-Ready retrofits			>\$500,000	Short Term
34	eMobility	eMicromobility	Improve access to public and private secure e-bike parking	Explore developing a program for existing buildings to provide secure e-bike storage			<\$100,000 - >\$500,000	Medium Term
35	eMobility	Electric Vehicles	Improve access to EV charging in public spaces	Develop siting guidelines for public infrastructure with a focus on user experience			<\$100,000	Short Term
36	eMobility	Electric Vehicles	Improve access to EV charging at work	Establish EV Ready requirements for new non-residential buildings			<\$100,000	Short term
37	CEEP2050	Energy	Smart Grid Technologies	Explore opportunities to partner on a pilot of a solar- battery demonstration project on a building.	<10,000 tonnes	Resilience	<\$100,000	Short-term
38	CEEP2050	Energy	Conservation and Demand Management	Evaluate New West Electric rate structure and explore development of a low-income home energy assistance program that assists eligible households with their heating and cooling costs, weatherization, and energy- related home repairs.	10,000 - 25,000 tonnes	Equity Resilience Health	current Staffing	Short-term
39	CEEP2050	Buildings	Existing Buildings	Review the City's regulatory and policy context for opportunities to better incentivize energy retrofits in exchange for additional density or other benefits, where appropriate.	>25,000	Health, Equity	Current Staffing	Short-term
40	CEEP2050	Buildings	All Buildings	Review the Zoning Bylaw, Development Permit Area guidelines, and other policies and regulations to remove any remaining barriers, and to further incentivize energy efficiency and GHG emission reductions.	<10,000 tonnes	Resilience	Current Staffing	Short-term
41	CEEP2050	Transportation	Sustainable Transportation Modes	Advocate for and support implementation of TransLink's regional Transport 2050 plan, including: a. expanding frequent transit service, and improving service along the Major Transit Network (development of rapid bus along 8th Street, and capacity relief measures on the Expo SkyTrain line); and b. improving affordability, accessibility, and safety of transit and active transportation for all community members.	>25,000	Equity	Current Staffing	Ongoing
42	CEEP2050	Transportation	eMobility	Accelerate EV and eMicromobility (e-bikes, etc.) adoption by implementing the eMobility Strategy.	>25,000	Equity, Health, Resilience	\$100,000- \$500,000	Short-term
43	CEEP2050	Transportation	eMobility	Collaborate with Metro Vancouver and other partners to explore opportunities to reduce emissions from deliveries, including online deliveries, by supporting fleet transitions to zero emissions, off-peak deliveries, small urban consolidation centres, and cargo bike deliveries.	10,000 - 25,000 tonnes	Health, Resilience	Current Staffing	Short-term

Education and Awareness - Strategy Implementation Actions

Item	Plan/ Strategy	Category	Sub-Category	Action	GHG Reductions	Benefits	Resources	Timeline
44	CEEP2050	Energy	Conservation and Demand Management	Continue to implement and expand on educational campaigns to encourage and raise awareness about energy conservation, including providing additional information on utility bills.	<10,000 tonnes	Equity Resilience	<\$100,000	Short-term
45	CEEP2050	Energy	Conservation and Demand Management	Encourage the use of smart technology to better manage energy usage (e.g., smart thermostats).	<10,000 tonnes	Resilience	<\$100,000	Short-term
46	CEEP2050	Waste and Circular Economy	Waste Reduction	Support and amplify waste reduction and diversion educational programs delivered by Metro Vancouver and other partners (e.g. community groups supported through City grants).	<10,000 tonnes	Resilience	Current	Ongoing
47	CEERS	Policies	Implementation Strategies	Strategy #21: Complete and implement an outreach strategy focused on energy conservation and climate change awareness	>50 tonnes		\$100,000-\$500,000	MT
48	eMobility	Electric Vehicles	Support affordability of EVs	Promote existing EV purchase incentives and educational resources			N/A	Ongoing
49	eMobility	Electric Vehicles	Improve access to EV charging at home	Promote existing educational and financial supports for EV-Ready Retrofits			N/A	Short Term
50	eMobility	Utility	Proactively manage electricity grid impacts of EV charging	Develop educational materials on the benefits of networked or 'smart' charging			<\$100,000	Short Term
51	eMobility	eMicromobility	Incorporate eMicromobility into City planning and outreach	Develop an education campaign for safe use and benefits of eMicromobility			<\$100,000	Short Term
52	eMobility	eMicromobility	Improve access to public and private secure e-bike parking	Support e-bike security education programs			<\$100,000	Short Term
53	CEEP2050	Waste and Circular Economy	Circular Economy	Engage with local businesses in circular economy initiatives and support the adoption of circular economy approaches in the materials use, design, manufacturing, transport, retailing, and repurposing of products and services.	<10,000 tonnes	Equity Resilience	<\$100,000	Short-term

Capital Projects - Strategy Implementation Actions

Item	Plan/ Strategy	Category	Sub-Category	Action	GHG Reductions	Benefits	Resources	Timeline
54	CEEP2050	Energy	Conservation and Demand Management	Collect and share resources on energy conservation programs developed by BC Hydro and other partners to build knowledge and capacity among commercial and institutional building Electric Utility customers to reduce their energy consumption.	10,000 - 25,000 tonnes	Resilience	current Staffing	Short-term
55	CEERS	Transportation	Fleet	Strategy #11: Promote existing two-way car share option and pursue a one-way service option for staff use.	>50 tonnes		<\$100,000	ST
56	CEEP2050	Energy	Local Energy Generation	Complete a renewable energy study that identifies viable supply sources and a prioritized list of initiatives.	>25,000	Equity Resilience Health	<\$100,000	Short-term
57	CEEP2050	Energy	Local Energy Generation	Explore how to encourage cost effective, on-site renewable energy generation in new and existing buildings through incentives and policy tools, such as preferential net- metering rates.	10,000 - 25,000 tonnes	Equity Health Resilience	<\$100,000	Short-term
58	CEEP2050	Energy	Local Energy Generation	Explore opportunities to expand urban solar gardens that enable community members to invest in solar projects.	<10,000 tonnes	Health Resilience Equity	<\$100,000	Ongoing, on a priority basis
59	CEEP2050	Energy	District Energy and Waste Heat Recovery	Explore the viability of extending Sapperton's district energy system or developing new systems as new opportunities arise.	10,000 - 25,000 tonnes	Resilience	>\$500,000	Short-term
60	CEEP2050	Energy	Smart Grid Technologies	Assess the business case and feasibility of energy storage within the City's existing grid.	10,000 - 25,000 tonnes	Resilience	\$100,000- \$500,000	Medium-term
61	CEEP2050	Energy	Smart Grid Technologies	Continue to explore upgrading electrical metering equipment with advanced metering infrastructure to allow community members to better monitor and assess their energy use.	10,000 - 25,000 tonnes	Equity Resilience	>\$500,000	Ongoing
62	eMobility	Electric Vehicles	Improve access to EV charging in public spaces	Install public charging where network gaps remain			>\$500,000	Short Term
63	eMobility	Utility	Proactively manage electricity grid impacts of EV charging	Explore the development of a networked or 'smart' charging incentive pilot			>\$500,000	Short Term
64	eMobility	Utility	Proactively manage electricity grid impacts of EV charging	Plan for the future development of an EV load management program			\$100,000- \$500,000	Medium Term
65	eMobility	Electric Vehicles	Improve access to EV charging in public spaces	Continue to set City charging user fees to support cost-recovery and turnover			N/A	Ongoing
66	CEEP2050	Transportation	eMobility	Show leadership by continuing to transition to an energy efficient and low carbon corporate fleet, as directed by the Corporate Energy and Emissions Reduction Strategy (CEERS).	<10,000 tonnes	Health, Resilience	<\$100,000	Short-term
67	CEEP2050	Buildings	All Buildings	Continue to demonstrate leadership through high energy performance City facilities (new and retrofitted) constructed with low embodied carbon materials, as directed by CEERS.	<10,000 tonnes	Resilience	Current Staffing	Ongoing
68	CEEP2050	Energy	Smart Grid Technologies	Conduct feasibility studies that test low-carbon backup power systems to reduce reliance on fossil fuel backup power generators.	<10,000 tonnes	Resilience	<\$100,000	Short-term
69	CEEP2050	Waste and Circular Economy	Waste Reduction	Explore opportunities to host or support regular waste reduction events such as zero waste days, community repair events, or neighbourhood garage sales.	<10,000 tonnes	Resilience	<\$100,000	Ongoing
70	CEEP2050	Waste and Circular Economy	Waste Reduction	Continue to expand and improve household recycling and yard and food scraps diversion and collection programs.	<10,000 tonnes	Resilience	\$100,000- \$500,000	Ongoing

Capital Projects - Strategy Implementation Actions

Item	Plan/ Strategy	Category	Sub-Category	Action	GHG Reductions	Benefits	Resources	Timeline
71	CEEP2050	Waste and Circular Economy	Waste Reduction	Continue to require recycling and organics facilities on site in multi-unit residential, industrial, commercial, and institutional buildings, and consider expanding guidelines to improve the convenience and experience of recycling and organics storage and pick-up.	<10,000 tonnes	Resilience	Current	Ongoing
72	CEEP2050	Waste and Circular Economy	Waste Reduction	Work with businesses to reduce waste and divert organics from restaurants, the tourism industry, and the commercial sector overall.	<10,000 tonnes	Resilience	Current	Ongoing
73	CEEP2050	Natural Systems	Natural Systems	Continue to implement the Integrated Stormwater Management Plan, including: a. creating additional resources and enhanced guidelines for green infrastructure on private property; and b. expanding the use of green infrastructure on public lands.	<10,000 tonnes	Health Resilience Equity	\$100,000- \$500,000	Ongoing
74	CEEP2050	Natural Systems	Natural Systems	Seek opportunities to reduce water consumption by promoting grey water reuse and the use of technologies such as timers and leak detectors by residents and businesses.	<10,000 tonnes	Health Resilience Equity	<\$100,000	Short-term
75	CEEP2050	Natural Systems	Natural Systems	Explore opportunities to increase the City's water pumping efficiency.	<10,000 tonnes	Resilience	>\$500,000	Ongoing
76	CEEP2050	Waste and Circular Economy	Waste Reduction	Expand green demolition by reviewing and increasing requirements for construction waste diversion, encouraging deconstruction, salvaging, and improving enforcement for better compliance.	<10,000 tonnes	Resilience	Current	Short-term
77	CEEP2050	Waste and Circular Economy	Circular Economy	Collaborate with Metro Vancouver and regional municipalities to coordinate development of a circular economy, including the potential development of a regional strategy.	<10,000 tonnes	Equity Resilience	<\$100,000	Ongoing
78	CEEP2050	Waste and Circular Economy	Waste Reduction	Support senior government action on reducing use of single use plastics and packaging, and explore implementing changes locally.	<10,000 tonnes	Resilience	Current	Ongoing
79	CEERS	Buildings	Civic Buildings	Strategy #4: Conduct a Level 1 Energy Study for remaining Civic Buildings to determine additional emissions reduction opportunities for existing buildings every 5 years.	N/A		<\$100,000 (For Study)	MT
80	CEERS	Systems	Water and Wastewater	Strategy #18: Upgrade Pumps to Higher Efficiency Pump Systems as part of lifecycle replacement.	>50 tonnes		<\$100,000	OG
81	CEERS	Systems	Water and Wastewater	Strategy #19: Consider energy recovery from PRV stations using an in-line turbine generator	>50 tonnes		\$100,000- \$500,000	OG
82	CEERS	Transportation	Fleet	Strategy #13: Deliver annual and or refresher driver training	>50 tonnes		<\$100,000	ST
83	CEERS	Systems	Lighting	Strategy #16: Develop and Implement LED Street Lighting Conversion Strategy	>50 tonnes		<\$100,000	ST
84	CEERS	Transportation	Fleet	Strategy #7: Purchase light duty electric vehicles and equipment, as applicable	>100 tonnes		>\$500,000	MT
85	CEERS	Transportation	Fleet	Strategy #8: Monitor the potential use of non-fossil/renewable fuels (e.g., EV) for the City's heavy-duty fleet and purchase vehicles, as applicable	>100 tonnes		>\$500,000	OG
86	CEERS	Transportation	Fleet	Strategy #12: Expand and promote existing Employee Trip Reduction Program	>50 tonnes		<\$100,000	ST
87	CEERS	Buildings	Civic Buildings	Strategy #3: Implement Measures for Existing Buildings as per the Level 1 Energy Study (Appendix 2)	>100 tonnes		>\$500,000	OG
88	CEERS	Transportation	Fleet	Strategy #10: Promote e-bike fleet use and explore increasing the size of this fleet	>50 tonnes		<\$100,000	ST
89	CEERS	Transportation	Fleet	Strategy #14: Implement the revised Low Carbon Fleet Policy	50 - 100 Tonnes		<\$100,000	OG
90	CEERS	Policies	Implementation Strategies	Strategy #24: Establish a process or tool to ensure energy and emissions (including carbon pricing) considerations are included as part of the design process for facility and construction projects	N/A		N/A	ST
91	CEERS	Transportation	Fleet	Strategy #6: Install EV charging infrastructure and associated upgrades	>100 tonnes		>\$500,000	MT
92	CEERS	Buildings	Civic Buildings	Strategy #1: Apply the Zero Carbon Building Standard for the NWACC facility	>100 tonnes		>\$500,000	ST
93	eMobility	Electric Vehicles	Improve access to EV charging in public spaces	Coordinate public charging deployment with shared fleet operators			N/A	Short Term

Capital Projects - Strategy Implementation Actions

Item	Plan/ Strategy	Category	Sub-Category	Action	GHG Reductions	Benefits	Resources	Timeline
94	eMobility	eMicromobility	Incorporate eMicromobility into City planning and outreach	Apply an eMicromobility lens to the updated Master Transportation Plan and in other transportation-related City projects			<\$100,000	Short Term
95	eMobility	eMicromobility	Advance supportive eMicromobility policies	Advocate for changes to the <i>Motor Vehicle Act</i> to provide clear guidance on eMicromobility			N/A	Short term
96	eMobility	eMicromobility	Advance supportive eMicromobility policies	Collaborate to develop clear regionally consistent safety guidelines and requirements for eMicromobility			N/A	Short Term
97	eMobility	eMicromobility	Advance supportive eMicromobility policies	Advocate for a region-wide approach to road usage charging			N/A	Long Term
98	eMobility	eMicromobility	Enhance e- bike accessibility	Explore a shared e-bike pilot program			\$100,000- \$500,000	Short Term
99	eMobility	eMicromobility	Improve access to public and private secure e-bike parking	Invest in secure public e-bike parking City facilities			\$100,000 - >\$500,000	Short Term
100	eMobility	eMicromobility	Improve access to public and private secure e-bike parking	Advocate for expanding secure e-bike parking and storage at transit locations			N/A	Ongoing
101	CEEP2050	Energy	Conservation and Demand Management	Continue to lead by example with phasing out the use of fossil fuels in City hand-held landscaping equipment and explore further regulating their use for personal and commercial purposes in the community.	<10,000 tonnes	Health	<\$100,000	Short-term
102	CEERS	Buildings	Civic Buildings	Strategy #2: Implement the updated Civic Green Building Policy for new construction and major renovations.	N/A		Variable	OG
103	CEERS	Policies	Implementation Strategies	Strategy #22: Ensure operations and maintenance teams are involved as stakeholders in the project planning process	N/A		N/A	OG
104	CEEP2050	Energy	Conservation and Demand Management	Implement the strategies of CEERS related to formalizing the internal application of carbon pricing as part of the City's internal processes and adopting a procurement policy that considers energy and emissions.	<10,000 tonnes	Equity Resilience	current Staffing	Medium-term
105	CEEP2050	Natural Systems	Natural Systems	Continue to implement the Urban Forest Management Strategy and Biodiversity Strategy, including: a. incentivizing community members to install habitat features and plant trees; b. further encouraging developers and builders to integrate green spaces into developments; c. integrating natural systems into the public realm, such as parks, greenways, and active transportation corridors; and d. pursuing land acquisition and restoration to expand natural park areas.	10,000 - 25,000 tonnes	Health Resilience Equity	\$100,000- \$500,000	Ongoing
106	CEERS	Systems	Lighting	Strategy #17: Include LED lighting as part of new sports field and stadium lighting installations.	>50 tonnes		<\$100,000	OG
107	CEERS	Transportation	Fleet	Strategy #9: Phase out the use of fossil fuels in hand-held landscaping equipment	>50 tonnes		<\$100,000	ST
108	CEEP2050	Transportation	Sustainable Transportation Modes	Review the Zoning Bylaw, Development Permit Area guidelines, and other policies and regulations to directly or indirectly reduce demand for personal vehicles, for example by changing from parking minimums to maximums.	>25,000	Equity, Health, Resilience	Current Staffing	Short-term
109	CEEP2050	Transportation	Sustainable Transportation Modes	Continue to implement the Official Community Plan, including: a. pursuing complete communities with transit-supportive densities and land use mixes; and b. enabling transit-oriented development in the downtown and near SkyTrain stations.	Preventative	Equity, Health, Resilience	Current Staffing	Ongoing
110	CEEP2050	Buildings	Existing Buildings	Continue to pursue heritage retention and revitalization where appropriate, to efficiently use energy and resources through adaptive reuse of buildings.	<10,000 tonnes	Resilience	Current Staffing	Ongoing

Capital Projects - Strategy Implementation Actions

Item	Plan/ Strategy	Category	Sub-Category	Action	GHG Reductions	Benefits	Resources	Timeline
111	CEEP2050	Buildings	All Buildings	Continue to implement the Official Community Plan, including expanding infill housing options where appropriate and enabling more energy efficient housing typologies.	>25,000	Equity Resilience	Current Staffing	Ongoing
112	CEEP2050	Natural Systems	Natural Systems	4. Explore opportunities to support sustainable local food systems, such as by: a. continuing to encourage communal gardens and private balcony or roof gardens in new multi- unit residential buildings b. reviewing regulations to remove barriers to urban farming; and c. supporting local food procurement and farmers markets.	10,000 - 25,000 tonnes	Health Resilience Equity	<\$100,000	Ongoing
113	CEERS	Policies	Implementation Strategies	Strategy #25: Adopt a procurement policy that considers energy and GHG emissions	N/A		N/A	ST
114	CEERS	Policies	Implementation Strategies	Strategy #20: Empower the Energy management Committee in implementing CEERS 2020	N/A		N/A	OG
115	eMobility	Implementation	Successfully implement the eMobility Strategy	Create and hire an eMobility Specialist staff position to lead and support the eMobility Strategy			>\$500,000	Short Term
116	CEEP2050	Transportation	Sustainable Transportation Modes	Explore holding car-free days and creating car-free areas.	<10,000 tonnes	Equity, Health	<\$100,000	Short-term
117	CEEP2050	Transportation	Sustainable Transportation Modes	Continue to prioritize sustainable transportation action implementation from the Master Transportation Plan, including: a. rapidly completing a network of active transportation infrastructure; b. supporting transit use by improving customer facilities and information, and exploring transit priority measures; and c. supporting transportation demand management initiatives which promote shifts to sustainable transportation and a reduction in single occupancy vehicle trips	>25,000	Equity, Health, Resilience	>\$500,000	Ongoing
118	CEEP2050	Transportation	Sustainable Transportation Modes	Implement the Regional Greenway and Major Bikeway Networks within New Westminster, in collaboration with Metro Vancouver and TransLink.	10,000 - 25,000 tonnes	Equity, Health	\$100,000-\$500,000	Medium-Term
119	CEEP2050	Transportation	Sustainable Transportation Modes	Advocate for more exploration of mobility pricing or road use charges, in collaboration with Metro Vancouver and TransLink.	10,000 - 25,000 tonnes	Equity, Health	<\$100,000	Short-term
120	CEEP2050	Transportation	eMobility	Support TransLink in implementing the 2050 Low Carbon Fleet Strategy to advance battery electric bus service in New Westminster.	<10,000 tonnes	Equity, Health, Resilience	Current Staffing	Ongoing
121	CEEP2050	Transportation	eMobility	Explore partnering with TransLink, Metro Vancouver, or other agencies as appropriate, to establish zero emissions vehicle zones in which access is limited to persons using active transportation modes and zero emissions vehicles only.	10,000 - 25,000 tonnes	Equity, Health, Resilience	<\$100,000	Short-term
122	eMobility	eMicromobility	Advance supportive eMicromobility policies	Monitor e-scooter pilot programs and assess opportunities for New Westminster			N/A	Medium Term
123	eMobility	eMicromobility	Improve access to public and private secure e-bike parking	Map existing secure public e-bike parking and infrastructure gaps			\$100,000-\$500,000	Short Term
124	eMobility	Electric Vehicles	Support affordability of EVs	Explore creating low- or zero emission zones in New Westminster			N/A	Long Term

CAT Proposed 2023 Work Plan

Strategy Sub-Category	Deliverable	Topic	Capital Budget Item (Y/N)
Implementation Strategies	Tool	Climate Action Reserve Fund - Decision Making Matrix - Climate Finance Tool Research Project (Student)	Y
	Policy	Corporate Policy Updates/New	
	Reporting	- Provincial Reporting (LGCAP) and Corporate Reporting - Low Carbon Fuels Credits Reporting and Approval Process - 7 Bold Steps KPI and Impact Reporting	Y
New Buildings	Policy	Step Code: 2023 Building Code Alignment	
	Strategy	Step Code Acceleration and Carbon Pollution Standard Adoption Plan to 2030	Y
	Advocacy	Step Code and Embodied Carbon Peer Networks (Research)	
	Tool	Design Guideline Review for Step Code Alignment	Y
Existing Buildings	Advocacy	Modernizing Urban Rental Buildings (Research Project)	
All Buildings	Policy	Land Use and Transportation alignment with CEEP (Initiate)	
	Community Program	Energy Save New West Program Delivery	Y
	Reporting	BC Hydro Community Energy Manager Reporting	
Conservation and Demand Management	Strategy	Electric Utility Commission: Engagement on Work Plan Items	
	Community Program	Energy Save New West Program Delivery	Y
eMobility	Advocacy	Electric Vehicle Peer Network	
	Community Program	Energy Save New West Program Delivery	Y
Fleet	Interdepartmental Support	Corporate EV Fleet Implementation Support	
Improve Access to EV Charging - Home	Community Program	Strata EV Charging Community Program Design - Support material and references project (Student)	Y
Improve Access to EV Charging - Public	Tool	EV User Fee Detailed Analysis (Self-Funding Modelling)	
	Strategy	EV Charging Network Expansion Planning	Y
	Policy	EV-Ready Policy for New Non-Residential Buildings	Y
Interdepartmental Support	Strategy	CEEP 2050, CEERS, eMobility Action Implementation Coordination	
	Interdepartmental Support	Asset Management Steering Committee - Participant Energy Management Committee - Committee Lead Finance - Decision Making Framework, Carbon Price Policy, etc. - Climate lens application to budget as required Facilities - Climate lens for projects as required Transportation - Alignment or collaboration on eMobility as required Building Division - Step Code compliance, data collection, capacity building Planning Division - Climate lens for land use, 22nd Station, other items as required. - Step Code capacity building Environmental Coordinator - Collaboration and coordination as required Electrical Utility - Climate lens for projects such as AMI, District Energy, Solar Gardens, etc. Parks and Recreation - Climate lens for projects as required	
Internal Working Groups	Strategy	Environment and Climate Task Force	
External Working Groups	Advocacy	- Environment and Climate Advisory Committee - BC Hydro Sustainable Communities - REAC - CPS - Community Energy Association (CEA)	
Successfully Implement the eMobility Strategy	Policy	eMobility Strategy Adoption and Implementation	Y