



## Attachment 2

Council Report Dated August 28, 2023

# **REPORT**

## ***Climate Action, Planning and Development***

**To:** Mayor Johnstone and Members of Council  
**Date:** August 28, 2023

**From:** Serena Trachta,  
Acting Director of Climate Action,  
Planning and Development  
**File:** 09.1742.02

**Item #:** 2023-527

**Subject: Accelerating Climate Action: Four Year Workplan to Meet Targets and Address Extreme Heat**

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### **RECOMMENDATION**

**THAT** Council endorse in principle, the outlined accelerated climate action workplan to meet climate emergency targets and address extreme heat, subject to approval of required resources.

**THAT** Council direct staff to report back on resource requirements to support the proposed workplan to meet climate emergency targets and address extreme heat for consideration.

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### **PURPOSE**

To seek Council endorsement, in principle, on the proposed accelerated climate action workplan to meet climate emergency targets and address extreme heat, and to seek Council direction for Staff to report back on resource requirements to support the accelerated climate action workplan.

### **EXECUTIVE SUMMARY**

With the 2019 Climate Emergency Declaration, the City committed to reducing corporate and community carbon pollution to net zero by 2050. To support the City in advancing towards the climate action targets, the Climate Action Team (CAT) developed three action plans that identify 124 implementation actions to achieve the City's targets. Of the identified implementation actions, 66 will be lead by, or require significant contributions from, the Climate Action Team.

At the June 26, 2023 Regular Council meeting, staff presented Council with a report on the City’s Extreme Heat Response Plan with two working streams: 1) near term emergency response, and 2) long term root cause solutions. Council directed staff regarding the work of Stream 1, and staff committed to providing Council with a workplan and budget to accelerate Climate Action team Stream 2 actions.

The current CAT four year workplan is developed based on the existing staff resource capacity. Although this work advances climate action, it is insufficient to meet the City’s carbon emission reduction targets and to implement Stream 2 Extreme Heat Response. The City needs to accelerate work on the existing actions across the entire CAT workplan, as well add those addressing extreme heat. The proposed accelerated four year CAT workplan is detailed in attachment 4.

**BACKGROUND**

**Climate Action**

With the 2019 Climate Emergency Declaration, the City committed to meet the following greenhouse gas (carbon pollution) reduction targets as compared to 2010 baseline year:

- 45% by 2030
- 65% by 2040
- 100% by 2050

The City’s commitment to these targets was further solidified through the development of the 7 Bold Steps framework, which identify goals for each bold step (details of the goals in Attachment 1).

To support the City in advancing carbon pollution reduction, the City created the Climate Action Team (CAT), within the Climate Action, Planning and Development Department. The team’s mandate is to develop climate action related policies, strategies, and tools and to support technical reporting. The team has developed/updated three key City climate action policies which identify 124 implementation actions that are required to achieve the City’s Climate Emergency Declaration targets: Corporate Energy & Emissions Reduction Strategy (September 2020), eMobility Strategy (June 2022), and Community Energy and Emissions Plan 2050 (October 2022).

## Existing Climate Action Strategies



## Extreme Heat Response

At the June 26, 2023 Regular Council meeting, staff presented Council with a report on the City's Extreme Heat Response Plan (attachment 2). Two streams of work were identified:

- **Stream 1** – focus on the need to keep people alive, focus efforts on targeted buildings and focus on people that are at the highest risk.
- **Stream 2** – longer term to build resiliency and put policies and protocols in place to enhance building envelopes to minimize the demand for fuel to heat and cool. Policies shall incentivize passive cooling techniques, building envelope upgrades, installation of centralized and high efficiency cooling systems, tree planting and use of portable AC as a temporary measure in the most difficult areas.

Council directed staff regarding the work of Stream 1, and staff committed to providing Council with a workplan and budget to accelerate “Stream 2 Climate Action team” actions, including exploring building and business licensing regulations aimed at removing barriers to the installation of air conditioners in units.

## **DISCUSSION**

### **Need to Accelerate Climate Action Team (CAT) Workplan**

The CAT formed in early 2020 and has been focused on developing the climate action strategies and implementation actions required to meet the City's climate action targets. To date, the team has achieved the following:

- Completed CEERS, eMobility Strategy, and CEEP2050. The team identified, developed calculation models for, and compiled regulatory reports, such as corporate emission reporting to provincial programs, and low carbon fuel credits.
- Conducted research on local energy poverty, rental building retrofit policy tools, and heat pump concierge program design.
- Delivered equity focused initiatives such as providing energy bill and conservation program workshops in languages spoken at home, introduced electric vehicle (EV) charging user fees, and personalized support for residents seeking energy and emission retrofit incentives.
- Implemented the BC Energy Step Code and a high performance home incentive program while supporting local builders with technical training to achieve compliance.

Of the 124 identified implementation actions, 66 will be lead by, or require significant contributions from, the CAT (attachment 3). The current CAT four year workplan (attachment 4) has been developed based on the existing staff resource capacity and initiates work on 19 implementation actions; all of which require ongoing implementation support. Although this work advances climate action, it is insufficient to meet the City's carbon emission reduction targets and to implement Stream 2 Extreme Heat Response. The City needs to accelerate work on the existing actions across the entire CAT workplan, as well as add those addressing extreme heat.

### **Proposed Accelerated CAT Workplan**

To accelerate the workplan and extreme heat response (detailed accelerated workplan in attachment 4), staff would work on the following initiatives:

1. *Addressing Buildings Vulnerable to Extreme Heat*
  - *Building Retrofit Requirements Advocacy:* Proactively advocate for building retrofit requirements for protection from extreme heat events.
  - *Building Stock Analysis:* Expand the Emergency Management Office's (EMO) existing vulnerable building assessment to include specific building features (i.e. construction, mechanical system, wall assembly, etc.) contributing to risk of overheating.
  - *Vulnerability Assessment:* Conduct research to understand the intersection of building and resident vulnerability.

- *Needs Assessment:* The combined outcomes of initiatives 2 and 3 will inform a needs assessment which will define retrofit program energy efficiency measures, objectives and targets.
  - *Program Design:* Develop program plan, including aspects such as monitoring and data collection plan, education and training needs, customer journey and eligibility criteria, education and awareness campaigns, and budget.
  - *Program Implementation:* Deliver on critical aspects of the program design, with increased need for customer service, technical support, data collection, education and awareness, active marketing, quality control, budget tracking and measurement and verification.
2. *Climate Adaptation and Resilience:* Develop a climate adaptation and resilience plan which will include creating a climate hazard and risk register, identify gaps in existing adaptation and resilience efforts, and create a roadmap to resilience.
  3. *EV Fleet and Charging Implementation:* Align electrical capacity of relevant civic facilities, fleet vehicle replacement plans, and projected EV charging needs to create an actionable implementation schedule for electrical infrastructure upgrades.
  4. *eMobility Strategy Implementation:* Remove barriers to EV charging retrofits in multi-unit residential building, improve access to public EV charging, establish best practice guidelines for accessible EV charging, proactively support electrical utility planning with updates on EV uptake and growth projections, and develop programs to incentivize expansion of existing bike parking.
  5. *Education and Awareness:* deliver concurrent, ongoing and consistent communication, education and awareness components to the community to inform on progress and foster community support.

Projects that would not be advanced at this time are listed in the CAT Implementation Action four year accelerated workplan (attachment 4).

**FINANCIAL CONSIDERATIONS**

Should Council endorse in principle the accelerated CAT workplan, staff will report back regarding resources required to achieve the workplan.

**INTERDEPARTMENTAL LIAISON**

Preliminary conversations were carried out with senior staff from Engineering, Finance, Parks and Recreation and Electrical Utility regarding the proposed workplan.

**OPTIONS**

There are three options for consideration:

1. That Council endorse in principle, the outlined accelerated climate action workplan to meet climate emergency targets and address extreme heat, subject to approval of required resources.
2. That Council direct staff to report back on resource requirements to support the proposed workplan to meet climate emergency targets and address extreme heat for consideration.
3. That Council provide staff with other direction.

Staff recommends options 1 and 2.

**ATTACHMENTS**

Attachment 1 – 7 Bold Steps

Attachment 2 – July 26<sup>th</sup> report on Extreme Heat Response

Attachment 3 – Climate Strategy Implementation Actions

Attachment 4 – CAT Current Four Year Workplan and Proposed Accelerated Four Year Workplan

**APPROVALS**

This report was prepared by:

Leya Behra, P.Eng., Manager of Climate Action

This report was reviewed by:

Jackie Teed, Acting Director of Climate Action, Planning and Development

This report was approved by:

Serena Trachta, Acting Director of Climate Action, Planning and Development

Lisa Spitale, Chief Administrative Officer

Attachment 1  
*7 Bold Steps*



## 7 Bold Steps



### **CARBON FREE CORPORATION**

The City of New Westminster will reduce its overall carbon footprint and will strive to achieve net zero carbon emissions by 2030.

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### **CAR LIGHT COMMUNITY**

Accelerate the Master Transportation Plan targets for mode split: 60% of all trips within the City will be by sustainable modes of transportation (walk, transit, bike, multi-occupant shared) by 2030.

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### **CARBON FREE HOMES AND BUILDINGS**

Community carbon emissions for all homes and buildings will be reduced significantly. By 2030, all new and replacement heating and hot water systems will be zero emissions.

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### **POLLUTION FREE VEHICLES**

By 2030, 50% of kilometres driven by New Westminster registered vehicle owners will be by zero emissions vehicles.

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### **CARBON FREE ENERGY**

The City of New Westminster will invest in a smart electrical grid in order to accommodate the required rapid conversion to building and vehicle electrification.

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### **ROBUST URBAN FOREST**

New Westminster's Urban Forest Canopy cover will be increased to 27% by 2030 to support the removal of 4,050 tonnes of carbon pollution every year and increase our forest's carbon storage capacity by 50%.

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### **QUALITY PEOPLE-CENTRED PUBLIC REALM**

A minimum of 10% of today's street space that currently only serves motor vehicles, excluding transit, will be reallocated for sustainable transportation or public gathering by 2030. The natural environment will be integrated with the public realm.

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Attachment 2  
*July 26th, 2023 Council Report on  
Extreme Heat Response*

# **REPORT**

## ***Office of the Chief Administrative Officer***

### ***Fire and Rescue***

#### ***Climate Action, Planning and Development***

##### ***Electrical***

**To:** Mayor Johnstone and Members of Council      **Date:** June 26, 2023

**From:** Lisa Spitale, Chief Administrative Officer      **File:**  
On behalf of SMT

**Item #**      2023-468

**Subject:** City Staff's Heat Plan Response to Extreme Heat in New Westminister:  
Accelerated Funding for Summer 2023 – Recommendation from the Utility  
Commission

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### **RECOMMENDATIONS**

THAT Council endorse the recommendation from the Utility Commission set out in this report; and

THAT Council endorse the accelerated Heat Plan response workplan and the \$268,000 one-time budget increase to be funded from the Climate levy, collected from electric utility bills in the Climate Action Reserve Fund; and

THAT Council direct staff to pursue the following Next Steps as outlined in this report:

(a) Direct staff to seek endorsement of the budget amount from the Utility Commission;

(b) Direct staff to bring this report back at the July 10, 2023 Regular Council meeting for Council approval or rejection

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## **PURPOSE**

The purpose of this report is twofold: one, to provide Council with the recommendations from the Utility Commission regarding the City's response to extreme heat; and two, to provide Council with staff's Heat Plan with an accelerated workplan and one-time budget request for summer 2023.

## **EXCUTIVE SUMMARY**

At the June 12th Council meeting, Council considered a motion - *Implementation of a temporary Low-Income Energy Assistance Program in 2023* - and directed that the Utility Commission review the motion and provide Council with a recommendation.

At the June 20th Utility Commission meeting, the Commission reviewed the Council motion and a memo from City staff outlining the existing heat plan initiatives currently underway to address extreme heat.

The Utility Commission approved a motion supporting staff's existing heat response initiatives and asked that Council support a one-time budget increase if staff could accelerate the Heat Plan for the 2023 summer. The Utility Commission asked that staff inform them of the one-time budget amount.

After the Utility Commission meeting, staff from the Fire Department, in particular the Emergency Management Office (EMO), and the Climate Action, Planning and Development (CAPD) Department, in particular the Climate Action team, the Social Planning team and Building Inspections, have been working to develop an accelerated Heat Plan workplan for the 2023 summer. The accelerated workplan involves focusing on the community's most vulnerable populations.

The workplan assumes extra staff resources for EMO, project budget enhancement for Climate Action Team, administrative support for the Seniors Services Society and the purchase and installation of air conditioners. This accelerated workplan will build on the current short term efforts such as the pilot project at Ross Tower, creating cool rooms in common areas inside identified buildings and continued collaboration with Fraser Health. The accelerated workplan is aligned with a host of longer term initiatives as well.

As this report is an on-table report, staff are recommending that Council *endorse* (rather than approve) the accelerate heat response workplan and the one-time budget request of \$268,000. Staff also recommend that the budget recommendation be brought back to the Utility Commission for their sign off; and finally that these recommendations be brought back to the July 10, 2023 Regular meeting for Council's formal approval or rejection of the accelerated heat plan workplan and one-time budget request.

## **BACKGROUND**

At the June 12, 2023 Regular Council meeting, Council approved that the following motion be forwarded to the Utility Commission for their review and comment.

### **Council Motion: Implementation of a temporary Low-Income Energy Assistance Program in 2023**

Whereas New Westminster had the highest per capita death rate during the 2021 "Heat Dome" which according to the BC Coroner's office killed 28 residents, many of whom were renters living in tree-canopy deficient neighbourhoods;

Whereas according to the BC Coroner's Office most decedents were in homes without adequate cooling systems such as air conditioners or fans; and

Whereas the 'Heat Dome' event had significant financial and operational impacts on New Westminster's first responders including our fire and police departments; and

Whereas in 2023 the City of New Westminster injected \$26 million dollars into our Climate Action Reserve for which no funds have been allocated and this in addition to the \$1.9M we anticipate collecting this year by way of a Climate Action Levy charged to all New Westminster electrical utility ratepayers;

THEREFORE BE IT RESOLVED that effective June 1st, 2023 the New West Electrical Utility be directed to provide a one-time reimbursement of up to \$500 to low income residents to install a new or replace an older non-functioning air conditioning unit; and

BE IT FURTHER RESOLVED that New West Electrical Utility establish a low-income energy assistance program effective June 1st to provide up to \$500 in credits for eligible residents who are facing markedly higher energy bills due to increased consumption during the summer season (June through September); and

BE IT FURTHER RESOLVED that the definition of low-income mirror that of the Province of BC which is defined as individuals with an income of \$39,115 or less, and families with a household income of \$50,170 or less in 2022; and

BE IT FURTHER RESOLVED that up to \$500,000 be sourced from the Climate Action Reserve Fund to cover the cost of this temporary program; and

BE IT FURTHER RESOLVED that on urgent basis the CAO be authorized, in consultation with the Mayor, to establish the streamlined program eligibility and temporarily reallocate the necessary internal resources to support the operations of this program; and

BE IT FURTHER RESOLVED that the Mayor write a letter to the Premier of BC requesting the 14 recommendations contained in a June 7, 2022 BC Coroner's Office report titled "Extreme Heat and Human Mortality: A Review of Heat-Related Deaths in B.C. in Summer 2021" be fully implemented in an expedited manner.

At the June 20, 2023 Electrical Utility Commission meeting, the Commission approved the following resolution:

**MOVED and SECONDED**

THAT the Utility Commission recommends Council not implement the Council motion at this time so that staff can undertake work and permit a more completed investigation for equitable access to funding for those most in need, targeting the most vulnerable seniors living in New Westminster, and continue all of our other work with staff's current program for 2023, and to more fully understand the cost implications for implementing this program along with identifying partners to support the program.

And THAT staff provide Council with a budget and a workplan at the June 26, 2023 Council meeting, with the source of funding being the Climate Action Reserve Fund.

Carried.

**All Commissioners present voted in favour of the motion.**

**DISCUSSION**

City staff are currently working on several initiatives to address extreme heat. The Emergency Management Office (EMO) has recognized the following characteristics as those that increase a person's risk of morbidity or mortality during an extreme heat event and defines vulnerable populations as: Seniors living in isolation, substance misuse, people with a mental health issue, people with mobility issues, people with medical comorbidity (example receiving chemotherapy for cancer); in combination with a lack of access to air conditioning.

To address the request of an accelerated Heat Plan for the summer of 2023, staff are recommending a 2-stream approach:

**Stream 1:** focus on the need to keep people alive, focus efforts on targeted buildings and focus on people that are at the highest risk.

**Stream 2:** longer term to build resiliency and put policies and protocols in place to enhance building envelopes to minimize the demand for fuel to heat and cool. Policies shall incentivize passive cooling techniques, building envelope upgrades, installation of centralized and high efficiency cooling systems, tree planting and use of portable AC as a temporary measure in the most difficult areas.

#### **EMO and Fire Department Stream 1 Actions:**

Outlined below is a brief summary of actions:

- The City has an Extreme Heat Response Plan, which incorporates a number of measures, including communication and notification, to safeguard residents, including renters and seniors, during extreme heat events.
- EMO / Fire has partnered with FHA to establish an Emergency Monitoring Center for activation in extreme heat events to care for and monitor patients with mild to moderate heat related injuries.
- EMO / Fire has identified 126 multifamily residences housing the most vulnerable populations.
- Staff has engaged the Seniors Services Society to identify and provide outreach support targeting the most vulnerable seniors.
- EMO will engage the Life Line program to identify vulnerable residents.
- The City supports Connect and Prepare to facilitate social connectedness and emergency preparedness at Ross Tower. This program is being expanded to other rental buildings and senior independent living residences.

- The City has initiated a program with FHA to provide portable AC units to vulnerable residents who cannot access cooling areas because of mobility issues.
- EMO has distributed Heat Preparedness Information brochures to buildings housing vulnerable populations for distribution to property managers and stratas for posting.
- EMO distributes further education to properties and occupants just prior to forecasted heat events.
- The City continues to activate cooling venues during heat events.
- EMO / Fire collaborates with Social Planning to communicate and support faith based and non-profit organizations with water distribution and heat response information.
- EMO works with Parks and Recreation on the outdoor cooling strategy including misters, spray parks, etc.
- EMO works with Parks and Recreation to update the 'Stay Cool' information map for residents.
- Fire, Police and Integrated Services perform roaming patrols during heat events to provide water and outreach support to the unsheltered population.

**CAPD Stream 1 Actions:**

- The Climate Action Team provides information to residents, through Energy Save New West program communication channels, on no- and low-cost ways to keep cool in their homes.
- The Climate Action Team is conducting a study on incentives and tools which would accelerate energy and emission retrofits of low-rise rental residential buildings.
- The Climate Action Team is gathering case studies on individual unit heat pump retrofit experiences for existing multi-unit residential buildings.

**EMO and Fire Stream 2 Actions:**

- EMO has informed Parks and Recreation of strategic areas within the City to focus tree planting to reduce the impacts of heat events on vulnerable populations.
- EMO has engaged the City Solicitor to assess the feasibility of imposing regulatory requirements to building structure and/or creating Heat Plans for its residents.



**CAPD Stream 2 Actions:**

- The Climate Action Team continues to identify and advocate for adaptation and resilience programs to support New Westminster residents to manage the impacts of climate change (for delivery through the Province and Utilities).
- The Climate Action Team, through the Energy Save New West program, continues to identify opportunities to provide additional marketing, resident support, and top-up incentives for existing energy, emissions and resilience programs that are delivered by the Province and Utilities.
- Within the current 4 year workplan, the Climate Action Team will develop a targeted and data-informed “vulnerable building retrofit” program for New Westminster residents in alignment with the Community Energy and Emissions Plan 2050 (CEEP) with an undefined program administration and delivery timeline (likely beyond 2026).

**ACCELERATED WORKPLAN**

This is work in progress that has been identified for an accelerated workplan through additional resources.

	<b>Task</b>	<b>Assign to:</b>
1	Assess identified buildings with vulnerable populations for suitability and implementation of a common cooling area.	Fire / EMO / FHA
2	Create a Heat Preparedness Plan template for buildings with no common cooling area to adopt.	Fire / EMO
3	Engage building representatives to retro fit a common cooling room.	Fire / EMO/ Building Dept.
4	Engage building representatives of buildings with no cooling areas to create a Heat Plan.	Fire / EMO
5	Perhaps it could read: "Provide air conditioners to vulnerable seniors who have mobility limitations or do not have a common cooling area	Fire / EMO / FHA / Seniors Society NGOs*
6	Collaborate with NGOs and FHA to establish best practices for heat response materials.	FHA / NGOs / FHA / COMMS
7	Public Outreach specific for heat education in vulnerable areas through the community “Pop Ups”.	Fire

	<b>Task</b>	<b>Assign to:</b>
8	Collaborate with Senior Services Society to create new and increase current outreach services.	EMO / Senior Services
9	Provide targeted outreach to FHA Home Health clients.	EMO / FHA
10	Collaborate to provide Heat Preparedness information through Energy Save New West program communication channels.	EMO / FHA / Comms / NGOs / Climate Action
11	Collaborate to provide Heat Preparedness information in home language community workshops through the Energy Save New West Empower Me program	EMO / Climate Action
12	Translate Heat Preparedness literature and posters to other relevant languages.	EMO / Comms
13	Collaborate with Communications to update sign board information for activations.	EMO / Comms
14	Collaborate with non-profit & faith based organizations to produce active outreach strategies.	EMO/ Social Planning
15	Collaborate with Parks to expand “ Stay Cool” Mapping for distribution with other heat publications.	EMO / Parks
16	Establish a centralized inbound information phone service for elderly who do not utilize internet services.	EMO / IT
17	Assess feasibility and implement an outbound “Cool Callers’ program during heat events.	Senior Services
18	Collaborate with NGOs to establish cooling venues for the unsheltered in a heat response.	Social Planning / EMO / NGOs
19	Expand outreach to the unsheltered during heat events.	EMO / Fire / Social Planning
20	Implement a cooling kit program including distribution with cooling supplies for unsheltered and low income.	Social Planning / EMO / Fire

\* NGO = non-government organizations supporting appropriate vulnerable populations

**Climate Action Team Stream 2 Accelerated Workplan:**

The current Stream 2 work within the Climate Action Team 4-year workplan (2022-2026) is to identify gaps in existing provincial and utility programs as it relates to buildings and residents within the city of New Westminster. From there, the Team will develop a targeted and data-informed “vulnerable building retrofit” program for New Westminster residents in alignment with the Community Energy and Emissions Plan 2050 (CEEP) with an undefined program administration and delivery timeline (likely beyond 2026).

By accelerating stream 2, the work would include Identifying the root causes of building overheating, building archetypes and needs of building owners to advance comprehensive building envelope and mechanical system retrofits. This approach will result in emission reductions but also energy efficiency and conservation; which will further reduce energy utility bills for the residents and reduce electrical grid demand to support the resilience of the New Westminster Electrical Utility. The aim would be to develop a program design in 2024 and deliver a program to the community prior to 2026.

*Impact of Stream 2 Acceleration on Climate Action Team Workplan:*

Based on the current staffing levels of the Climate Action Team, to accelerate the stream 2 work the Climate Action Team would need to cease working on eMobility (i.e. public/private/fleet electric vehicle charging, transportation emissions, and EV policy development) and redirect staff time to accelerating extreme heat response programs (1 FTE).

It should be noted that to meet the City’s CEEP and eMobility emission reduction targets, it is expected that the City needs to install ~18 publically accessible EV charging stations (including 3 DC Fast Charging) and ~8,500 retrofitted parking stalls in multi-unit residential buildings over the next 4 years. If work is redirected to building retrofit program development, these targets will not be met.

**BUDGET REQUEST**

The Climate Action Reserve Fund (Attachment 1) was established to ensure funds are available to overcome the incremental increased cost of reducing corporate and community energy consumption and greenhouse gas emissions, in an attempt to ensure global temperature rise does not exceed 1.5C. Although the steam 1 budget request of \$268K does not address energy conservation, it is in support of emergency life and safety near term adaptation against the real and devastating impacts of climate change that we are all feeling today. The financial implications of the stream 2 actions, will be considered and calculated in the upcoming budget processes. However, at this stage, it is estimated that an additional full-time equivalent (FTE) position will be

required to focus on designing a building retrofit program. The anticipated salary for this FTE is \$95,000 per year, along with associated benefits.

A Climate Action Decision Making Framework is being developed in 2023, but in absence of this structured approach to managing the climate funds, it is necessary to present the principles which were considered in developing this one-time budget request:

- *Climate change related life and safety:* while working on root cause solutions, near term impacts of extreme heat put at risk the lives of the most vulnerable residents.
- *Incremental funds:* stream 1 attempts to minimize overall cost by using existing programs and partners to deliver increased support, rather than creating a one-time emergency program from the ground up.
- *No year-over-year funding requested:* The stream 1 work is a one-time enhancement with no ongoing operating costs associated.

### **Emergency Management Office (EMO)**

- To accomplish the accelerated workplan EMO will require approximately 14 weeks of three full time equivalent staff at an expense of \$95,000:
  - Backfill the Emergency Management Coordinator
  - Secondment of a firefighter into the EMO
  - Fire prevention staff (to assist on overtime)
- Senior Services Society will require an equivalent of 1 full-time equivalent staff for 14 weeks to assist with project management and to collaborate with the EMO to identify vulnerable seniors at an expense of \$27,000.
- EMO will require \$108,000 for 126 additional portable air conditioners plus \$12,600 for installation.

### **Climate Action**

- Stream 1: Expanding Energy Save New West marketing and communication budget and Empower Me workshop materials, estimated expense of \$25,000.
- Stream 2 (not part of the one-time budget increase): 1 FTE dedicated to building retrofit program design, estimated to be \$95,000/yr.

<b>Budget Description</b>	<b>Amount</b>
EMO - 14 weeks of 3 FTE equivalent staff	\$95,000
Senior Services Society – 14 weeks of 1 FTE equivalent staff	\$27,000
126 portable air conditioners and installation	\$120,600
Energy Save New West – marketing and workshop materials	\$25,000
<b>TOTAL</b>	<b>\$267,600</b>

**NEXT STEPS**

1. Council endorse the accelerated Heat Plan response workplan and the \$268,000 one-time budget increase to be funded from the Climate levy, collected from electric utility bills portion of the Climate Action Reserve Fund.
  
2. Direct staff to seek endorsement of the \$268,000 one-time budget request from the Utility Commission prior to July 10, 2023.
  
3. Direct staff to bring this report back at the July 10, 2023 Regular Council meeting for Council approval or rejection.

**OPTIONS**

There are five options for Council’s consideration; they are:

- Option 1 - Council endorse the recommendation from the Utility Commission
  
- Option 2 – Council endorse the accelerated workplan and the \$268,000 one-time budget increase to be funded from the Climate levy, collected from the electric utility bills, portion of the Climate Action Reserve Fund
  
- Option 3 - Council direct staff to pursue the following Next Steps as outlined in this report:
  - a) Direct staff to seek endorsement of the budget amount from the Utility Commission;
  
  - b) Direct staff to bring this report back at the July 10, 2023 Regular Council meeting for Council approval or rejection.

Option 4 – Council not endorse the recommendation from the Utility Commission and approve the Council motion Implementation of a temporary Low-Income Energy Assistance Program in 2023.

Option 5 - Council not endorse the recommendation from the Utility Commission and provide further direction to staff.

***Staff recommend Options 1, 2 and 3***

### **INTERDEPARTMENTAL LIAISON**

Advancing an extreme heat response is a high priority involving several City departments including Fire, Climate Action, Planning and Development, Parks and Recreation, Electrical, Finance and the CAO.

### **ATTACHMENTS**

Attachment 1 – Climate Action Reserve Fund Summary Presentation (Utility Commission Slides, September 2022)

### **APPROVALS**

This report was prepared by:  
Cory Hansen, Emergency Management Coordinator  
Leya Behra, Manager of Climate Action  
Brad Davie, Deputy Fire Chief

This report was reviewed by:  
Erin Williams, Fire Chief  
Jackie Teed, Acting Director CAPD  
Rod Carle, General Manager, Electrical

This report was approved by:  
Lisa Spitale, Chief Administrative Officer

## Attachment #1

### *Climate Action Reserve Fund Summary Presentation - Utility Commission Slides September 2022*

# CLIMATE RESERVE

UTILITY COMMISSION UPDATE & ROUNDTABLE



# BYLAW NO. 8321, 2022 COUNCIL APPROVED IN JUNE

## CORPORATION OF THE CITY OF NEW WESTMINSTER

### Climate Action Reserve Fund Bylaw No. 8321, 2022

A Bylaw to establish a Reserve Fund in support of the City of New Westminster's commitment to greenhouse gas reduction targets for the City's corporate operations and the community.

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WHEREAS Section 188 (1) of the *Community Charter* states that a council may, by bylaw, establish a reserve fund for a specified purpose and direct that monies be placed to the credit of the reserve fund;

AND WHEREAS the City of New Westminster is a signatory to the B.C. Climate Action Charter to reduce corporate and community energy and greenhouse gas emissions;

## Municipalities role vs funds available

- Bold Climate Action, yet limited
- Existing City Reserves limited for asset replacements
- Incremental Funds required for investments/enhancements
- Ongoing operating impacts not accommodated in the long-term and utility rates – service the and plan for asset replacement future (climate resilient assets)
- This funding can support the City's 5 year plan as a one investment or grant/incentive
- Business Case should be approved max GHG reduction and carbon potential with 5-8 year pay back

### **Establishment of Fund**

4. The Climate Action Reserve Fund is established to receive funding to provide investments in one-time funding for both Capital and Operating investments to accelerate climate mitigation and adaptation projects, actions and initiatives that target energy and greenhouse gas reductions associated with City lands, facilities, or infrastructure, or Community services or infrastructure, including but not limited to the following:

- a) The planning for and completion of regional or local energy reduction or conservation projects and initiatives;
- b) The creation and implementation of climate mitigation and adaptation strategies, policies, and other related initiatives;
- c) The creation and implementation of infrastructure projects that will result in measurable emissions reductions in support of the City's obligations under the Low Carbon Fuel Standard;
- d) The sale and transfer of low carbon fuel credits; and
- e) The provision of a mechanism to manage and track these funds and measure their impact on the corporate and community levels.

# 5 YEAR CAPITAL PLAN

## **Climate Action – over \$100M in unfunded proposed Capital Investments**

- District Energy
- Electric Vehicle Infrastructure – Public and Civic
- Electric Fleet
- Natural Assets
- Infrastructure/Facilities
- Public Incentives
- Climate Planning

Funded from the Electrical Reserve – Automated Meters

Funded from Debt – QB Substation

Unplanned – New Substation(s) – Growth Strategy

Unplanned – Flood Resiliency & Climate Mitigation (EOC Funding)

# DECISION MAKING FRAMEWORK

NEW ASK FOR 2023 CAPITAL PLAN AND BUDGET:

- **CLIMATE ACTION DECISION MAKING FRAMEWORK \$50K**
- VALUE FOR MONEY: SUPPORT FOR BUSINESS CASE APPROVAL:
  - GREENEST BANG FOR OUR BUCK – MAX GHG REDUCTION
  - GATES: ORGANIZATION READINESS, PUBLIC READINESS, MARKET READINESS, ETC.
  - RETURN ON INVESTMENT/PAY BACK MODEL/ONGOING OPERATING IMPACTS
  - STRUCTURED APPROACH TO MANAGING THE CLIMATE FUNDS

## Attachment 3

### *Climate Strategy Implementation Actions*

## CNW Climate Action Plan Implementation Actions and CAT Role

Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
1	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.	Lead
2	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.	Lead
3	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.	Lead
4	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.	Lead
5	CEEP2050	Buildings	Existing Buildings	Increase the supports and programs for energy retrofits for existing residential, institutional, commercial, and industrial buildings, including by: <ul style="list-style-type: none"> <li>a. prioritizing the unique retrofit needs of existing multiunit residential buildings, especially rental buildings;</li> <li>b. focusing on the least efficient building stock (pre-1980);</li> <li>c. adapting retrofit strategies to work with heritage and character buildings;</li> <li>d. collecting and analyzing energy and spatial data of existing buildings to identify priority building archetypes and optimal strategies to support energy retrofits;</li> <li>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</li> <li>f. exploring one-stopshop models of retrofit management.</li> </ul>	Lead
6	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.	Lead
7	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.	Lead

Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
8	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).	Lead
9	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	Lead
10	CEEP2050	Buildings	New Buildings	Require maximum BC Energy Step Code tier for residential and nonresidential buildings before 2030.	Lead
11	CEEP2050	Buildings	New Buildings	Identify appropriate performance standards for institutional and industrial buildings, and encourage meeting these standards through policy.	Lead
12	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.	Lead
13	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.	Lead
14	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.	Lead
15	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.	Lead
16	CEEP2050	Energy	Conservation and Demand Management	Encourage the use of smart technology to better manage energy usage (e.g., smart thermostats).	Lead
17	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.	Lead
18	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.	Lead

Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
19	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.	Lead
20	CEEP2050	Transportation	eMobility	Accelerate EV and eMicromobility (e-bikes, etc.) adoption by implementing the eMobility Strategy.	Lead
21	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).	Lead
22	CEERS	Policies	Implementation Strategies	Strategy #23: Establish a protocol to implement internal Carbon Pricing	Lead
23	CEERS	Policies	Implementation Strategies	Strategy #21: Complete and implement an outreach strategy focused on energy conservation and climate change awareness	Lead
24	CEERS	Transportation	Fleet	Strategy #5: Develop an integrated corporate and community EV Strategy	Lead
25	CEERS	Transportation	Fleet	Strategy #15: Continue to review the corporate Vehicles Driven Home Policy	Lead
26	eMobility	Electric Vehicles	Improve access to EV charging at home	Advocate for EV-Ready retrofit requirements	Lead
27	eMobility	Electric Vehicles	Improve access to EV charging at home	Advocate to include EV-Ready retrofits in financing programs	Lead
28	eMobility	Electric Vehicles	Improve access to EV charging at home	Explore developing a program to provide financial incentives for MURB EV-Ready retrofits	Lead
29	eMobility	Electric Vehicles	Improve access to EV charging at home	Promote existing educational and financial supports for EV-Ready Retrofits	Lead
30	eMobility	Electric Vehicles	Improve access to EV charging at work	Establish EV Ready requirements for new non-residential buildings	Lead
31	eMobility	Electric Vehicles	Improve access to EV charging in public spaces	Complete detailed street-level mapping of EV infrastructure gaps	Lead
32	eMobility	Electric Vehicles	Improve access to EV charging in public spaces	Develop siting guidelines for public infrastructure with a focus on user experience	Lead
33	eMobility	Electric Vehicles	Support affordability of EVs	Advocate to ensure current EV purchase incentive level is maintained to 2030	Lead



Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
34	eMobility	Electric Vehicles	Support affordability of EVs	Advocate to expand efforts to 'scrap' internal combustion engine vehicles	Lead
35	eMobility	Electric Vehicles	Support affordability of EVs	Promote existing EV purchase incentives and educational resources	Lead
36	eMobility	eMicromobility	Enhance e-bike accessibility	Advocate for e-bike incentive program(s) and promote current e-bike incentives	Lead
37	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	Lead
38	eMobility	eMicromobility	Improve access to public and private secure e-bike parking	Support e-bike security education programs	Lead
39	eMobility	eMicromobility	Incorporate eMicromobility into City planning and outreach	Develop an education campaign for safe use and benefits of eMicromobility	Lead
40	eMobility	Implementation	Successfully implement the eMobility Strategy	Create and hire an eMobility Specialist staff position to lead and support the eMobility Strategy	Lead
41	eMobility	Implementation	Successfully implement the eMobility Strategy	Create an action prioritization tool	Lead
42	eMobility	Implementation	Successfully implement the eMobility Strategy	Monitor and report on the Strategy under the Climate Action and Environment Key Performance Indicators	Lead
43	eMobility	Implementation	Successfully implement the eMobility Strategy	Apply an equity lens to implementation and engage with equity-denied groups	Lead
44	eMobility	Utility	Proactively manage electricity grid impacts of EV charging	Continue to monitor EV uptake and forecast the anticipated impacts of adoption	Lead

Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
45	eMobility	Utility	Proactively manage electricity grid impacts of EV charging	Develop educational materials on the benefits of networked or 'smart' charging	Lead
46	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.	Contribute
47	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.	Contribute
48	CEEP2050	Energy	Local Energy Generation	Explore opportunities to expand urban solar gardens that enable community members to invest in solar projects.	Contribute
49	CEEP2050	Energy	Smart Grid Technologies	Explore opportunities to partner on a pilot of a solar-battery demonstration project on a building.	Contribute
50	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. 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.	Contribute
51	CEEP2050	Transportation	eMobility	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.	Contribute
52	CEEP2050	Transportation	Sustainable Transportation Modes		Contribute

Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
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.	Contribute
54	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: <ul style="list-style-type: none"> <li>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</li> <li>b. Enhanced GHG emissions capturing methane (biogas) from landfills, expanding low emissions waste-to-energy facilities as appropriate, and reducing emissions from organics.</li> </ul>	Contribute
55	eMobility	Electric Vehicles	Improve access to EV charging in public spaces	Continue to set City charging user fees to support cost-recovery and turnover	Contribute
56	eMobility	Implementation	Successfully implement the eMobility Strategy	Leverage external funding opportunities	Contribute
57	eMobility	Utility	Proactively manage electricity grid impacts of EV charging	Explore the development of a networked or 'smart' charging incentive pilot	Contribute
58	eMobility	Utility	Proactively manage electricity grid impacts of EV charging	Plan for the future development of an EV load management program	Contribute
60	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.	Contribute
62	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.	Contribute
63	CEEP2050	Buildings	Existing Buildings	Continue to pursue heritage retention and revitalization where appropriate, to efficiently use energy and resources through adaptive reuse of buildings.	Contribute

Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
65	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.	Contribute
66	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.	Contribute
98	CEERS	Policies	Implementation Strategies	Strategy #25: Adopt a procurement policy that considers energy and GHG emissions	Contribute
108	CEERS	Transportation	Fleet	Strategy #6: Install EV charging infrastructure and associated upgrades	Contribute
122	eMobility	eMicromobility	Improve access to public and private secure e-bike parking	Advocate for expanding secure e-bike parking and storage at transit locations	Contribute
59	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.	Other City Dept.
61	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.	Other City Dept.
64	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.	Other City Dept.
67	CEEP2050	Energy	Local Energy Generation	Complete a renewable energy study that identifies viable supply sources and a prioritized list of initiatives.	Other City Dept.
68	CEEP2050	Energy	Smart Grid Technologies	Assess the business case and feasibility of energy storage within the City's existing grid.	Other City Dept.
69	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.	Other City Dept.
70	CEEP2050	Energy	Smart Grid Technologies	Conduct feasibility studies that test low-carbon backup power systems to reduce reliance on fossil fuel backup power generators.	Other City Dept.
71	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.	Other City Dept.

Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
72	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.	Other City Dept.
73	CEEP2050	Natural Systems	Natural Systems	Explore opportunities to increase the City's water pumping efficiency.	Other City Dept.
74	CEEP2050	Natural Systems	Natural Systems	Continue to implement the Urban Forest Management Strategy and Biodiversity Strategy, including: <ul style="list-style-type: none"> <li>a. incentivizing community members to install habitat features and plant trees;</li> <li>b. further encouraging developers and builders to integrate green spaces into developments;</li> <li>c. integrating natural systems into the public realm, such as parks, greenways, and active transportation corridors; and</li> <li>d. pursuing land acquisition and restoration to expand natural park areas.</li> </ul>	Other City Dept.
75	CEEP2050	Natural Systems	Natural Systems	4. Explore opportunities to support sustainable local food systems, such as by: <ul style="list-style-type: none"> <li>a. continuing to encourage communal gardens and private balcony or roof gardens in new multi-unit residential buildings</li> <li>b. reviewing regulations to remove barriers to urban farming; and</li> <li>c. supporting local food procurement and farmers markets.</li> </ul>	Other City Dept.
76	CEEP2050	Transportation	eMobility	Support TransLink in implementing the 2050 Low Carbon Fleet Strategy to advance battery electric bus service in New Westminster.	Other City Dept.
77	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).	Other City Dept.
78	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.	Other City Dept.
79	CEEP2050	Transportation	Sustainable Transportation Modes	Explore holding car-free days and creating car-free areas.	Other City Dept.

Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
80	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	Other City Dept.
81	CEEP2050	Transportation	Sustainable Transportation Modes	Implement the Regional Greenway and Major Bikeway Networks within New Westminster, in collaboration with Metro Vancouver and TransLink.	Other City Dept.
82	CEEP2050	Transportation	Sustainable Transportation Modes	Advocate for more exploration of mobility pricing or road use charges, in collaboration with Metro Vancouver and TransLink. 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.	Other City Dept.
83	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.	Other City Dept.
84	CEEP2050	Transportation	Sustainable Transportation Modes	Collaborate with Metro Vancouver and regional municipalities to coordinate development of a circular economy, including the potential development of a regional strategy.	Other City Dept.
85	CEEP2050	Waste and Circular Economy	Circular Economy	Explore opportunities to host or support regular waste reduction events such as zero waste days, community repair events, or neighbourhood garage sales.	Other City Dept.
86	CEEP2050	Waste and Circular Economy	Waste Reduction	Continue to expand and improve household recycling and yard and food scraps diversion and collection programs.	Other City Dept.
87	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.	Other City Dept.
88	CEEP2050	Waste and Circular Economy	Waste Reduction		Other City Dept.

Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
89	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.	Other City Dept.
90	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.	Other City Dept.
91	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.	Other City Dept.
92	CEERS	Buildings	Civic Buildings	Strategy #2: Implement the updated Civic Green Building Policy for new construction and major renovations.	Other City Dept.
93	CEERS	Buildings	Civic Buildings	Strategy #1: Apply the Zero Carbon Building Standard for the NWACC facility	Other City Dept.
94	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.	Other City Dept.
95	CEERS	Buildings	Civic Buildings	Strategy #3: Implement Measures for Existing Buildings as per the Level 1 Energy Study (Appendix 2)	Other City Dept.
96	CEERS	Policies	Implementation Strategies	Strategy #22: Ensure operations and maintenance teams are involved as stakeholders in the project planning process	Other City Dept.
97	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	Other City Dept.
99	CEERS	Policies	Implementation Strategies	Strategy #20: Empower the Energy management Committee in implementing CEERS 2020	Other City Dept.
100	CEERS	Systems	Lighting	Strategy #16: Develop and Implement LED Street Lighting Conversion Strategy	Other City Dept.
101	CEERS	Systems	Lighting	Strategy #17: Include LED lighting as part of new sports field and stadium lighting installations.	Other City Dept.
102	CEERS	Systems	Water and Wastewater	Strategy #18: Upgrade Pumps to Higher Efficiency Pump Systems as part of lifecycle replacement.	Other City Dept.
103	CEERS	Systems	Water and Wastewater	Strategy #19: Consider energy recovery from PRV stations using an in-line turbine generator	Other City Dept.
104	CEERS	Transportation	Fleet	Strategy #11: Promote existing two-way car share option and pursue a one-way service option for staff use.	Other City Dept.

Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
105	CEERS	Transportation	Fleet	Strategy #7: Purchase light duty electric vehicles and equipment, as applicable	Other City Dept.
106	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	Other City Dept.
107	CEERS	Transportation	Fleet	Strategy #14: Implement the revised Low Carbon Fleet Policy	Other City Dept.
109	CEERS	Transportation	Fleet	Strategy #13: Deliver annual and or refresher driver training	Other City Dept.
110	CEERS	Transportation	Fleet	Strategy #10: Promote e-bike fleet use and explore increasing the size of this fleet	Other City Dept.
111	CEERS	Transportation	Fleet	Strategy #12: Expand and promote existing Employee Trip Reduction Program	Other City Dept.
112	CEERS	Transportation	Fleet	Strategy #9: Phase out the use of fossil fuels in hand-held landscaping equipment	Other City Dept.
113	eMobility	Electric Vehicles	Improve access to EV charging in public spaces	Install public charging where network gaps remain	Other City Dept.
114	eMobility	Electric Vehicles	Improve access to EV charging in public spaces	Coordinate public charging deployment with shared fleet operators	Other City Dept.
115	eMobility	Electric Vehicles	Support affordability of EVs	Explore creating low- or zero emission zones in New Westminster	Other City Dept.
116	eMobility	eMicromobility	Advance supportive eMicromobility policies	Advocate for changes to the Motor Vehicle Act to provide clear guidance on eMicromobility	Other City Dept.
117	eMobility	eMicromobility	Advance supportive eMicromobility policies	Collaborate to develop clear regionally consistent safety guidelines and requirements for eMicromobility	Other City Dept.
118	eMobility	eMicromobility	Advance supportive eMicromobility policies	Monitor e-scooter pilot programs and assess opportunities for New Westminster	Other City Dept.
119	eMobility	eMicromobility	Advance supportive eMicromobility policies	Advocate for a region-wide approach to road usage charging	Other City Dept.
120	eMobility	eMicromobility	Enhance e- bike accessibility	Explore a shared e-bike pilot program	Other City Dept.



Item	Plan/ Strategy	Category	Sub-Category	Action	CAT Role
121	eMobility	eMicromobility	Improve access to public and private secure e-bike parking	Invest in secure public e-bike parking City facilities	Other City Dept.
123	eMobility	eMicromobility	Improve access to public and private secure e-bike parking Incorporate eMicromobility into City planning and outreach	Map existing secure public e-bike parking and infrastructure gaps	Other City Dept.
124	eMobility	eMicromobility		Apply an eMicromobility lens to the updated Master Transportation Plan and in other transportation-related City projects	Other City Dept.

## Attachment 4

# *CAT Current Four Year Workplan and Proposed Accelerated Four Year Workplan*

## 2023-2026 CAT Workplan and Proposed Accelerated Target-Driven Workplan

LEGEND			
Project Initiation Year		Project Status	
<b>Number</b>	The project will launch in the specified year, but it does not mean the project will complete within that same year.	<b>Not Started</b>	Has not launched
<b>Ongoing</b>	Long term item with year over year interaction (as needed for full time)	<b>In Progress</b>	Has launched and currently active
<b>Beyond 2021</b>	Not scheduled to be launched within this 4 year workplan	<b>Ongoing</b>	Has launched and currently active
		<b>Hold</b>	Has launched, but is currently inactive (could be for a number of reasons such
		<b>Complete</b>	Project has been delivered

#	Plan/ Strategy	Sub-Category	Project	Project Initiation Year		Project Status
				CAT Wrokplan 2023 - 2026	Accelerated Workplan 2023 - 2026	
1	CEEP2050	All Buildings	Energy Save New West program delivery, community incentive processing, data acquisition and program uptake review	2023	2023	In Progress
2	CEEP2050	All Buildings	Explore ways to require heat pump installation in new construction to introduce cooling and reduce heating load	2023	2023	In Progress
3	CEEP2050	All Buildings	Update City Website to reflect CEEP Updates	2023	2023	Complete
4	CEEP2050	CEEP 2050 Implementation Plan	Climate Lens - Expand ownership of climate strategy implementation actions within the City	2023	2023	In Progress
5	CEEP2050	New Buildings	Bylaw update for BCBC 2023 alignment	2023	2023	Complete
6	CEEP2050	New Buildings	Develop a two option framework for Step Code compliance in Part 9 buildings to encourage low carbon fuel systems	2023	2023	In Progress
7	CEEP2050	New Buildings	Develop Step Code and Zero Carbon Code implementation schedule, to reach highest levels in advance of 2030	2023	2023	In Progress
8	CEEP2050	Existing Buildings	Complete community building stock analysis (additional focus on pre-1980) - <b>STREAM 2 Extreme Heat Response</b>	2024	2024	Not Started
9	CEEP2050	Existing Buildings	Identify gaps in existing energy and emissions incentive/rebate programs - <b>STREAM 2 Extreme Heat Response</b>	2024	2024	Not Started
10	CEEP2050	New Buildings	Implement Step Code and Zero Carbon Code adoption schedule, to reach highest levels in advance of 2030	2024	2024	Not Started
11	CEEP2050	New Buildings	Support internal capacity building on updated BCBC Energy and Emission Codes	2024	2024	Not Started
12	CEEP2050	All Buildings	Support climate lens review of Zoning Bylaw, DPA guidelines and Design Guidelines	2025	2025	Not Started
13	CEEP2050	Existing Buildings	Conduct vulnerability analysis of building stock including socio-economic, energy and spatial data collection (if available) of existing buildings to support program development priorities - <b>STREAM 2 Extreme Heat Response</b>	2025	2024	Not Started
14	CEEP2050	Existing Buildings	Review local government policy tools to incentivise energy and emission retrofits in existing buildings. - <b>STREAM 2 Extreme Heat Response</b>	2025	2025	Hold
15	CEEP2050	Successfully Implement CEERS, CEEP and eMobility	7 Bold Steps KPI and Program Impact Reporting	2025	2025	Hold
16	CEEP2050	All Buildings	Participate in innovative pilot projects being advanced by external partners	2026	2026	Not Started
17	CEEP2050	Existing Buildings	Conduct a needs assessment for existing buildings to achieve energy efficiency and emission reductions - <b>STREAM 2 Extreme Heat Response</b>	2026	2024	Not Started
18	CEEP2050	All Buildings	Advocate to advance mandatory energy labelling and benchmarking	Ongoing	Ongoing	Ongoing
19	CEEP2050	All Buildings	Capacity building for builder and developer community to support step code accelerations	Ongoing	Ongoing	Ongoing
20	CEEP2050	All Buildings	Deliver ESNW Programs	Ongoing	Ongoing	Ongoing

#	Plan/ Strategy	Sub-Category	Project	Project Initiation Year		Project Status
				CAT Wrokplan 2023 - 2026	Accelerated Workplan 2023 - 2026	
21	CEEP2050	Conservation and Demand Management	Advocate to Province on carbon pricing	Ongoing	Ongoing	Not Started
22	CEEP2050	Conservation and Demand Management	Collaborate with the Electric Utility and provide regular updates to the Utility Commiision on energy conservation and electrification initiatives to support utility strategic planning	Ongoing	Ongoing	Ongoing
23	CEEP2050	Conservation and Demand Management	Continue to collaborate with the Electric Utility and BC Hydro to implment conservation and demand management strategies and ensure NW customers have ongoing access to programs.	Ongoing	Ongoing	Ongoing
24	CEEP2050	eMobility	Advocate to Sr. governments regarding medium and heavy duty ZEVs, and maintaining light duty ZEV targets	Ongoing	Ongoing	Ongoing
25	CEEP2050	Existing Buildings	Advocate for MURB incentive and financing programs	Ongoing	Ongoing	Ongoing
26	CEEP2050	Existing Buildings	Advocate for rental building retrofit incentive and financing programs	Ongoing	Ongoing	Ongoing
27	CEEP2050	Sustainable Transportation Modes	Advocate for programs to increase usage of public transportation	Ongoing	Ongoing	Ongoing
28	CEEP2050	Conservation and Demand Management	Identify and advocate for expanding energy conservation and damand management programs	Beyond 2026	Ongoing	Ongoing
29	CEEP2050	Conservation and Demand Management	Implement and expand on educational campaigns to encourage and raise awareness about energy conservation, including providing additional information on utility bills.	Beyond 2026	2025	Not Started
30	CEEP2050	Conservation and Demand Management	Promote energy and emissions programs developed by utility and other partners for commecrial and institutional buildings	Beyond 2026	Ongoing	Ongoing
31	CEEP2050	Conservation and Demand Management	Promote use of smart technology for energy management	Beyond 2026	2026	Not Started
32	CEEP2050	District Energy and Waste Heat Recovery	Explore opportunities to encourage on-site waste heat recovery systems in buildings	Beyond 2026	2026	Not Started
33	CEEP2050	eMobility	Promote existing programs which incentivize adoption of micro eMobility	Beyond 2026	2025	Not Started
34	CEEP2050	eMobility	Promote existing programs which incentivize adoption of zero emission lightduty passenger vehicles	Beyond 2026	2025	Not Started
35	CEEP2050	eMobility	Promote existing programs which incentivize adoption of zero emission medium and heavy-duty passenger vehicles	Beyond 2026	2025	Not Started
36	CEEP2050	Existing Buildings	An Equitable New Deal (Energy Poverty) review and integration in to program planning	Beyond 2026	2025	Not Started
37	CEEP2050	Existing Buildings	Develop community program(s) to incentivise emission reductions in existing buildings targeting gaps in existing prgrams and measures to reduce overheating - <b>STREAM 2 Extreme Heat Response</b>	Beyond 2026	2025	Not Started
38	CEEP2050	Existing Buildings	Develop strategies for retrofit programs to align with heritage and charger buildings - <b>STREAM 2 Extreme Heat Response</b>	Beyond 2026	2025	Not Started
39	CEEP2050	Existing Buildings	Implement community program(s) targeting building overheating - <b>STREAM 2 Extreme Heat Response</b>	Beyond 2026	2026	Not Started
40	CEEP2050	Local Energy Generation	Explore opportunities to expand urban solar gardens	Beyond 2026	2025	Hold
41	CEEP2050	Local Energy Generation	Explore policy tools and incentives to encourage cost effective, on-site renewable energy generation in new and existing buildings	Beyond 2026	2026	Not Started
42	CEEP2050	Natural Systems	Develop Climate Adaptation and Resilience Plan	Beyond 2026	2024	Not Started
43	CEEP2050	New Buildings	Develop policies related to embodied carbon in new construction	Beyond 2026	2026	Not Started
44	CEEP2050	New Buildings	Identify appropriate performance standards for institutional and industrial buildings	Beyond 2026	2025	Not Started

#	Plan/ Strategy	Sub-Category	Project	Project Initiation Year		Project Status
				CAT Wrokplan 2023 - 2026	Accelerated Workplan 2023 - 2026	
45	CEEP2050	New Buildings	Identify policy tools to require low carbon energy sources for new construction	Beyond 2026	2024	In Progress
46	CEEP2050	Smart Grid Technologies	Explore opportunities to partner on a building scale distributed renewable energy pilot project	Beyond 2026	2026	Not Started
47	CEEP2050	Sustainable Transportation Modes	Advocate for expanding frequent transit service and improving service along the MTN	Beyond 2026	Ongoing	Ongoing
48	CEEP2050	Sustainable Transportation Modes	Advocate for improving affordability, accessibility, and safety of transit and active transportation	Beyond 2026	Ongoing	Not Started
49	CEERS	Successfully Implement CEERS	Develop Internal Carbon Pricing Policy and Tools	2024	2024	Hold
50	CEERS	Implementation Strategies	Complete an outreach strategy focused on energy conservation and climate change awareness	Beyond 2026	2025	Hold
51	CEERS	Implementation Strategies	Implement the completed outreach strategy focused on energy conservation and climate change awareness	Beyond 2026	2026	Not Started
52	CEERS	Successfully Implement CEERS	Annual review, update and development of corporate policies (i.e. vehicles taken home, workplace charging, etc.) 1 update per year	Beyond 2026	Ongoing	Ongoing
53	CEERS	Fleet	Develop eMobility Strategy	Complete	Complete	Complete
54	eMobility	Improve Access to EV Charging - Home	Research MURB EV charging retrofits barriers to adoption	2023	2023	In Progress
55	eMobility	Improve Access to EV Charging - Public	EV User Fee - Detailed Analysis	2023	2023	Hold
56	eMobility	Improve Access to EV Charging - Public	EV-Ready bylaw for new non-residential buildings	2023	2023	In Progress
57	eMobility	Improve Access to EV Charging - Home	Develop guidance materials for MURBS conducting EV Ready retrofits and promote existing incentive program(s)	2024	2024	Not Started
58	eMobility	Improve Access to EV Charging - Public	Develop siting guidelines for public infrastructure with a focus on user experience	2024	2024	Not Started
59	eMobility	Improve access to EV charging at home	Explore developing a program to provide financial incentives for MURB EV-Ready retrofits	2024	2024	Not Started
60	eMobility	Improve access to EV charging in public spaces	Complete detailed street-level mapping of EV infrastructure gaps	2024	2024	Not Started
61	eMobility	Enhance e- bike accessibility	Advocate for e-bike incentive programs(s)	Ongoing	Ongoing	Ongoing
62	eMobility	Improve access to EV charging at home	Advocate for EV-ready retrofit requirements and support programs	Ongoing	Ongoing	Ongoing
63	eMobility	Improve access to EV charging at home	Advocate to include EV-Ready retrofits in financing programs	Ongoing	Ongoing	Ongoing
64	eMobility	Improve access to EV charging in public spaces	Continue to set City charging user fees to support cost-recovery and turnover	Ongoing	Ongoing	Ongoing
65	eMobility	Improve access to EV charging at home	Explore implementing a program to provide financial incentives for MURB EV-Ready retrofits	Beyond 2026	2025	Not Started
66	eMobility	Improve access to public and private secure e-bike parking	Develop secure e-bike parking policies for existing buildings	Beyond 2026	Beyond 2026	Not Started
67	eMobility	Improve access to public and private secure e-bike parking	Explore existing building secure e-bike parking program	Beyond 2026	Beyond 2026	Not Started
68	eMobility	Improve access to public and private secure e-bike parking	Support e-bike security education programs	Beyond 2026	Beyond 2026	Not Started
69	eMobility	Incorporate eMicromobility into City planning and outreach	Develop an education campaign for safe use and benefits of eMicromobility	Beyond 2026	Beyond 2026	Not Started
70	eMobility	Proactively manage electricity grid impacts of EV charging	Continue to monitor EV uptake and forecast the anticipated impacts of adoption	Beyond 2026	2024	Not Started

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				CAT Wrokplan 2023 - 2026	Accelerated Workplan 2023 - 2026	
71	eMobility	Proactively manage electricity grid impacts of EV charging	Develop educational materials on the benefits of networked or 'smart' charging	Beyond 2026	Beyond 2026	Not Started
72	eMobility	Proactively manage electricity grid impacts of EV charging	Explore the development of a networked or 'smart' charging incentive pilot	Beyond 2026	Beyond 2026	Not Started
73	eMobility	Proactively manage electricity grid impacts of EV charging	Implement an EV load management program	Beyond 2026	Beyond 2026	Not Started
74	eMobility	Proactively manage electricity grid impacts of EV charging	Plan for the future development of an EV load management program	Beyond 2026	Beyond 2026	Not Started
75	eMobility	Successfully implement the eMobility Strategy	Apply an equity lens to implementation and engage with equity-denied groups	Beyond 2026	Ongoing	Ongoing
76	eMobility	Successfully implement the eMobility Strategy	Create and hire an eMobility Specialist staff position to lead and support the eMobility Strategy	Beyond 2026	2025	Not Started
77	eMobility	Successfully implement the eMobility Strategy	Leverage external funding opportunities	Beyond 2026	2025	Hold
78	eMobility	Support affordability of EVs	Advocate for EV purchase incentive program(s)	Beyond 2026	Ongoing	Ongoing
79	eMobility	Support affordability of EVs	Advocate to expand "scrap-it" program(s) for ICE vehicles	Beyond 2026	Ongoing	Not Started
80	Other	Energy Management Committee	Relaunch and lead City committee on energy and emissions	2023	2023	Not Started
81	Other	Successfully Implement CEERS, CEEP and eMobility	Climate Action Reserve Fund - Decision Making Matrix 1.0	2023	2023	In Progress
82	Other	Successfully Implement CEERS, CEEP and eMobility	Climate Action Reserve Fund - Decision Making Matrix rollout	2025	2025	Not Started
83	Other	Admin	Provide customer service to residents with climate action inquires	Ongoing	Ongoing	Ongoing
84	Other	Successfully Implement CEERS, CEEP and eMobility	CDP Climate Action Reporting (Community and Corporate, Mitigation and Adaptation)	Beyond 2026	Ongoing	Hold
85	Regulatory	Successfully Implement CEERS	Low Carbon Fuels Credits Reporting and Approval Process	Ongoing	Ongoing	Ongoing
86	Regulatory	Successfully Implement CEERS	Provincial Reporting (LGCAP) and Corporate Reporting	Ongoing	Ongoing	Ongoing