

## Attachment 4

# *Seven Bold Steps and Environment Key Performance Indicators 2024 Snapshot of Progress*

# Climate Action Snapshot

**This annual climate action snapshot showcases the City's progress towards our climate and environment goals.**

In March of 2019, the City of New Westminster Council declared a Climate Emergency, establishing targets to reduce carbon emissions: 45% by 2030, 65% by 2040, and 100% by 2050.

Council adopted the Seven Bold Steps for Climate Action, accompanied by ten-year targets, and endorsed a Strategic Plan that identified Environment and Climate as a key priority.



01

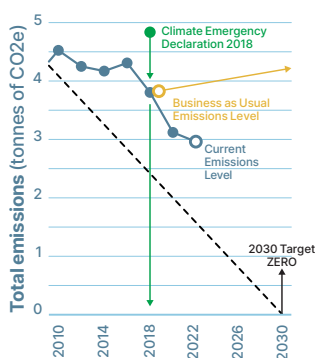
## Carbon Free Corporation

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

### What are we tracking?

Corporate carbon emissions resulting from the operation of City-owned buildings, fleet, and operations.

#### Corporate carbon emissions vs. Bold Step #1 trajectory



The Corporate Energy and Emissions Reduction Strategy (CEERS) is the City's guiding document for reducing its corporate carbon emissions. Since its implementation in 2017, there has been an average reduction of 7% for each year against our target.

You can learn more about it [here](#).

**30%**

The City has reduced its corporate emissions by 30% from the 2010 baseline.

### How are we reducing emissions?

- Building new net-zero buildings
- Transition to an efficient and low-carbon fleet
- Maximize energy efficiency through deep energy retrofits of civic facilities



02

## 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, or bike) by 2030.

### What are we tracking?

Trips and hours completed by sustainable modes of transportation within the City.



Trips in 2017 were completed by sustainable modes of transportation (walking, biking, taking transit).

**36%**

The **eMobility Strategy and the Master Transportation Plan** promote sustainable transportation by encouraging e-bike and micromobility adoption while reducing private vehicle use.

[Learn More Here.](#)

In 2024, the City increased its total length of cycling lanes to 53 km.

### How are we advancing this Bold Step?

- Completed walking and cycling network improvements, including accessibility improvements, school zone traffic control, and creation of new greenways.
- Enabled remote working for City staff in response to COVID-19 which is ongoing.
- Expanded e-services at City Hall



03

## 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.

### What are we tracking?

Carbon emissions from buildings and homes and savings from energy and emissions reduction programs.

**148,770**  
tCO<sub>2</sub>e\* Annual carbon emissions

**1.79**  
tCO<sub>2</sub>e/person/year

2023 buildings and homes carbon emissions per capita

**5,929**  
GJ/year

2023 energy savings in existing buildings

Carbon emissions result from daily fossil fuel use in buildings. Switching to clean energy and efficient equipment can significantly reduce our carbon footprint.

**385 tCO<sub>2</sub>e**  
2023 Carbon emissions savings

**68**  
2021-2023 homes above Building Code requirements\*

### How are we advancing the Bold Step?

- Continue to provide services, training and incentives to residents to support energy efficiency, reduction and fuel-switching.
- Accelerated BC Energy and Zero Carbon Step Code implementation.



04

## Pollution Free Vehicles

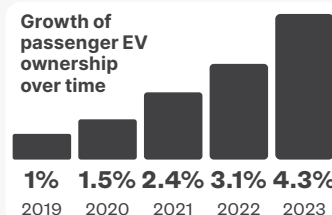
By 2030, 50% of kilometres driven by New Westminster registered vehicle owners will be by zero emissions vehicles.

In 2020, more New West residents switched to electric vehicles - reducing their fuel costs and air pollution.

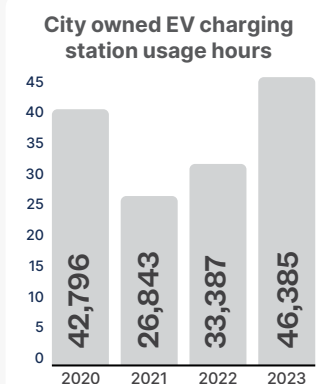
### What are we tracking?

The kilometres driven by zero emission vehicles registered to New Westminster residents.

**4.3%**  
EV ownership in 2023



**1.75%**  
Vehicle kilometers driven by zero emission vehicles



### Initiatives that the City has taken include:

- Installing 18 publicly accessible EV charging stations across the City from 2020 to 2023.
- Continued maintenance of EV chargers throughout the City to ensure reliability.
- Adopted the eMobility Strategy in 2022.

\* tCO<sub>2</sub>e stands for tonnes (t) of carbon dioxide (CO<sub>2</sub>) equivalent (e). \*Tonne\* is used to express the metric ton, or 2,200 pounds. \*Carbon dioxide equivalent\* is a standard unit for counting greenhouse gas (GHG) emissions regardless of whether they're from carbon dioxide or another gas, such as methane.

We recognise 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.

# Climate Action Snapshot



05

## 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.

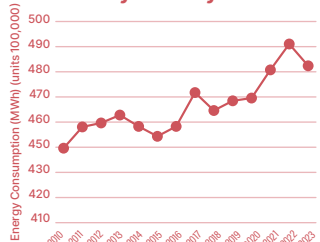
### What are we tracking?

The amount of energy distributed by the City's Electrical Utility.

**Bold Step 5** focuses on decarbonization of the City and the transition from fossil-fuel based energy sources such as diesel, gasoline and natural gas to cleaner, renewable sources of energy.

As our population grows and we shift towards cleaner energy systems, fossil fuel use will decrease and electricity consumption will increase.

### Electricity distributed by the City



**480,203** MWh Electricity consumption in 2023

Individuals can help to defer the need for extra electrical infrastructure by boosting energy efficiency and conservation.

### Actions the City is taking to support this Bold Step include:

- Upgrading electrical utility meters to Advanced Metering Infrastructure to deliver cost effective, reliable power to consumers
- Continue the urban solar garden program providing access to renewable energy generated by community-owned solar photovoltaic arrays.
- Completed the new Queensborough substation and related electrical infrastructure to add electrical capacity.



06

## 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%.

The City's urban forest management strategy identifies a comprehensive set of actions to increase the tree canopy cover from 18% to 27%.

**Net new trees on public lands.** **371** 2020

Cumulative number of net new trees. **2,464** 2024

**New trees on private lands.** **539** 2020

Cumulative number of replacement trees. **1,627** 2024

**18%** Tree canopy cover in 2015

### What is the role of the Urban Forest?

- Clean the air by absorbing pollutants
- Contribute to urban biodiversity
- Provide shade and improve microclimate

### City actions to support this Bold Step include:

- Used watering bags for replacement trees to ensure they are properly watered for their early growing seasons.
- Ongoing community involvement in caring for the City's trees through the Adopt-A-Street Tree program in 2021 - 2023.
- Installed 50 new street trees and pollinator planters in the Brow of the Hill neighbourhood through the TD Green Space Grant for Innovative Urban Forestry Initiatives in 2021.



07

## 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.

**1%** Road space reallocation

**37.15** hectares Five year birds eye view of total land area

**21** New gathering spaces 2021-2023

**0.53** hectares Conversion of invasives to native species

**5** Number of public storm water interventions

### Projects completed 2021 to 2023:

- Completed new park spaces and amenities, including the Westminster Pier Park Play Area at Sixth Street, Ryall Park Learning Garden; Queen's Park play tower replacement, Quayside Tugger replacement, Sportsplex plaza, and Queen's Park bike skills park.
- Completed the Sixth Street pedestrian overpass and ramp, a new accessible pedestrian connection to Westminster Pier Park;
- Completed the construction of the City Hall rain garden and 5th Street and 8th Avenue rain gardens.
- Completed the New West Secondary School Cycling Connector, including new protected cycling facilities, intersection improvements, and new landscaping and cycling amenities.
- Completed 6 city parklets at Columbia St, Twelfth St, Sixth Ave, Fifth Ave, Belmont St and Fourth Ave.



08

## Environment

In addition to the Bold Steps, Environment focuses on conservation of water, diversion of house hold waste from landfill and separation of sewage from rain water.

**272** Litres annual water consumption per individual (2023)

The City's daily water use per capita continues to decline, consistently staying below the Metro Vancouver regional average.

**68.5%** Annual percentage single family waste diversion for 2023

In 2023, the City achieved a single-family waste diversion rate of 68.5%, exceeding Metro Vancouver's 2022 rate of 64%.

**1.5%** of total combined sewer separated per year

### Some actions that the City is taking to reduce its environmental impact include:

- Adopted the Biodiversity and Natural Areas Strategy in 2022, which will support the City's actions to halt further biodiversity loss.
- Ongoing education and enforcement campaigns to increase waste diversion and reduce contamination in all recycling streams.
- Ongoing replacement of aging water mains and separation of combined sewers.
- Continue to promote water conservation through education, media outreach, and community events.
- Ongoing implementation of the Integrated Stormwater Management Plan (ISMP) to reduce volume of stormwater runoff, improving water quality, and enhancing natural areas.

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