Attachment 1

Climate Action Plan Implementation

2023 Annual Report - Phase Two, Year One

Prepared: February 2024

Presented: April 2024

Introduction

On July 21, 2020, Port Moody City Council adopted the Climate Action Plan (CAP), an integrated plan that outlines a vision for how the City and Community will reduce greenhouse gas (GHG) emissions and prepare for future climate changes. The CAP includes targets, goals, and actions to protect our community, improve our quality of life, and reduce greenhouse gas emissions. The CAP outlines the following vision that will guide action and implementation:

"Port Moody is a resilient community that honours climate justice, leading the urgent response to climate change through collective action."

-Climate Action Committee

In February of 2023, Council endorsed the 2023-2024 Phase Two Climate Action Implementation Strategy that continues or initiates implementation of 65 actions from the Climate Action Plan including new actions from the Climate Ready Homes and Buildings Plan and Extreme Weather Resilience Plan. Since February 2023, staff have been working to implement the actions and track their progress. Implementation and tracking information has been compiled into this 2023 Annual Report. The 2021 and 2022 Annual Reports can be found on the City's Climate Action webpage.

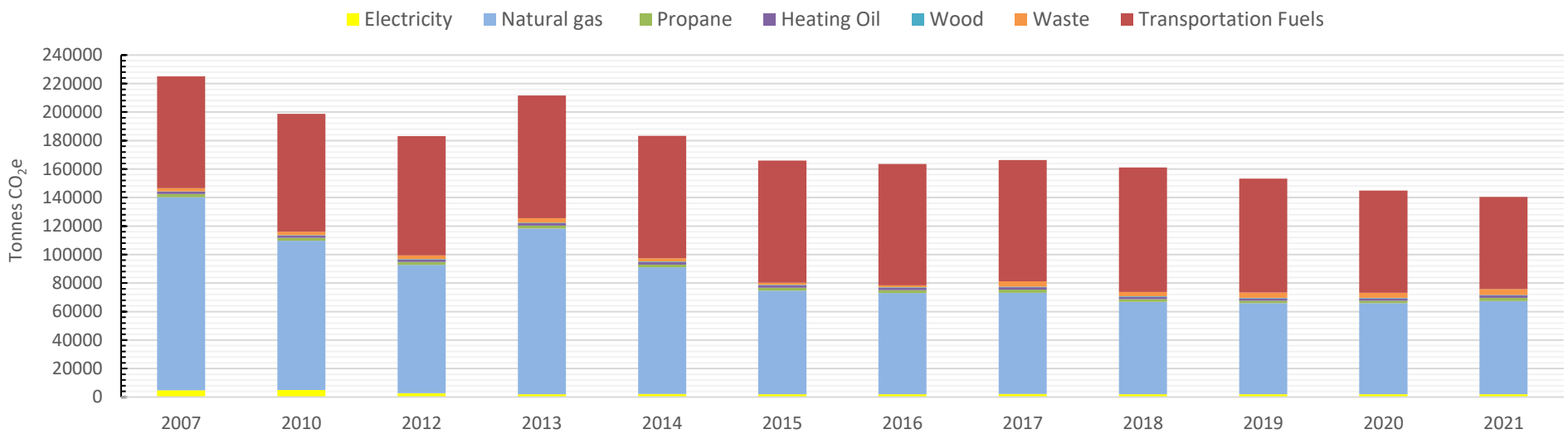
Progress on Community GHG Targets

The latest Port Moody community-wide GHG emissions inventory is for 2021 and comes from the Province of BC Community Energy and Emissions Inventory. 2021 is the most recent year due to a 2-year data collection and analysis delay from the Province of British Colombia. The latest update shows:

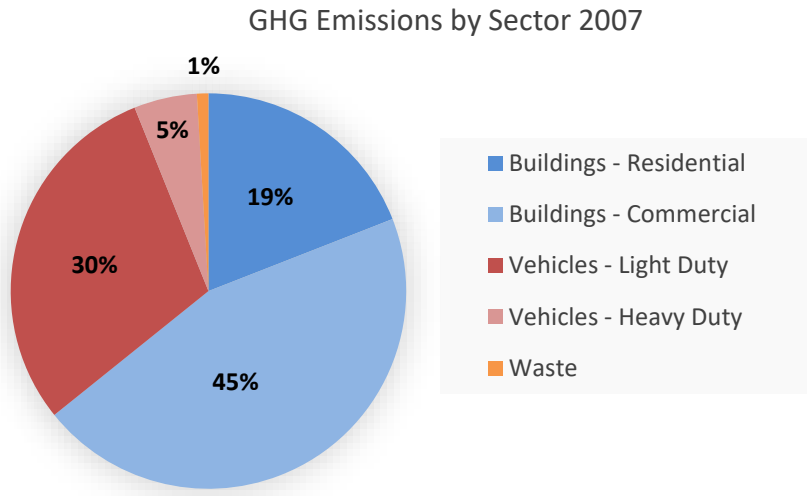
- Overall community-wide emissions decreased by 38% between 2007 and 2021;
- Fossil fuel use in building operations, followed by transportation, remains the largest source of GHG emissions in the community;
- Building emissions decreased by 50% between 2007 and 2021 (largely due to decommissioned commercial buildings and industry);
- Transportation emissions decreased by 18% between 2007 and 2021; and
- Solid waste emissions increased by 15% from 2017 to 2021.

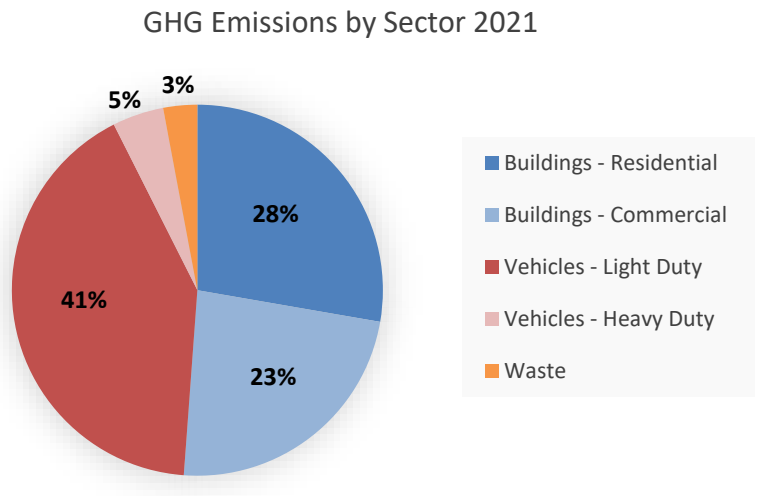
Several methodology updates over the years have proved challenging in consistently tracking community GHG emissions. A variety of data constraints also mean that caution should be applied when drawing conclusions from changes in emissions inventory years, particularly related to transportation and waste. Due to a data collection method change from the province, 2017 is set as the baseline for solid waste emissions instead of 2007. The City will continue working with regional partners, the Province, ICBC, BC Hydro, and FortisBC to acquire more frequent, reliable data at the local level to assist reporting on progress. The charts below show Port Moody's community GHG emissions for each year available. Port Moody's GHG reduction targets utilize 2007 as the baseline year. The trend shows that while a 38% reduction in emissions occurred between 2007 and 2021 despite population growth and more activity (e.g. construction and vehicles), community emissions have remained above 100,000 tCO_2e ranging between 140,398 tCO_2e - 224,974 tCO_2e.

Note: The transportation data below for the year of 2020 is not representative of impacts from the COVID-19 pandemic. Due to COVID-19 lockdowns transportation emissions decreased, however, since community transportation emissions are estimated, this is not reflected in the data. In 2021, transportation behavior is expected to have returned to near pre-pandemic levels, and therefore transportation emissions are anticipated to be closer to pre-COVID-19 pandemic levels.



The graph above illustrates that transportation fuels and natural gas contribute the most community GHG emissions in Port Moody. The graphs below depict the shift in community GHG emissions by sector between the baseline year 2007 and 2021. Transportation and buildings remain the dominant source of GHG emissions.





2007 GHG emissions = 224,947 tCO_2e

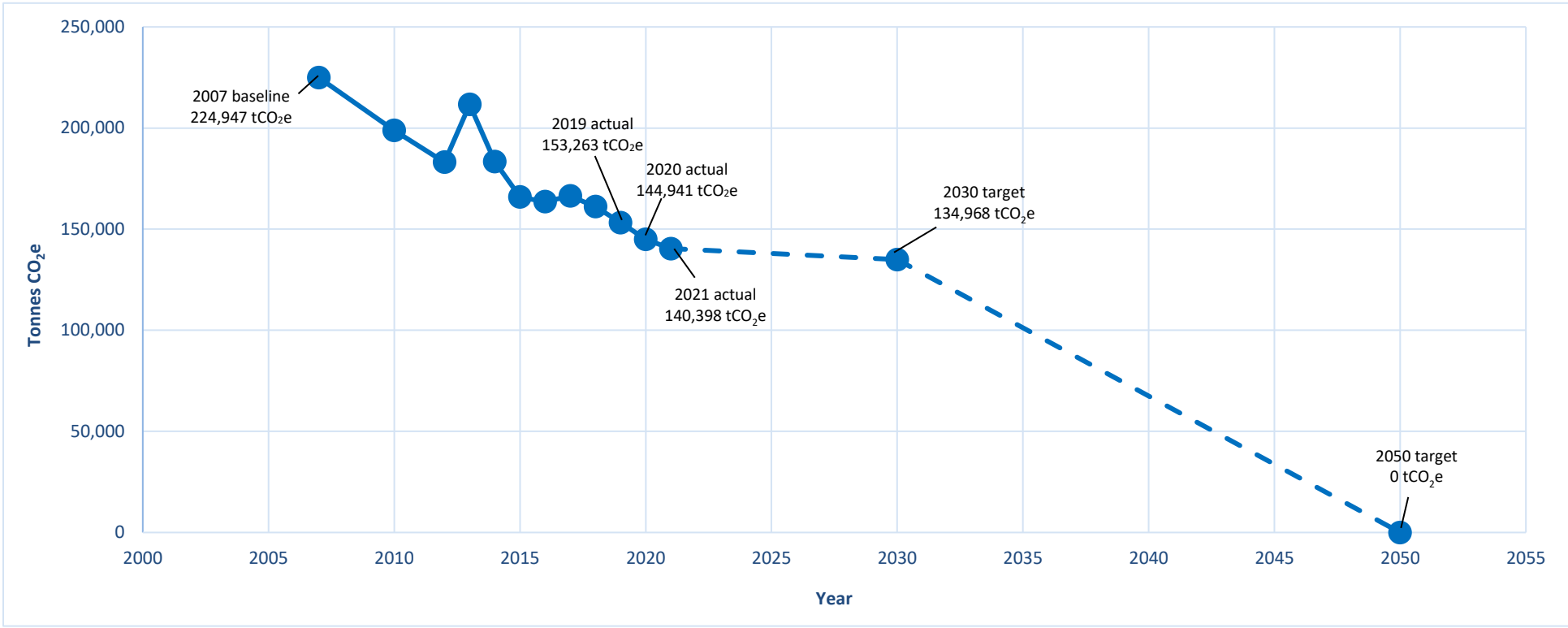
2021 GHG emissions = 140,390 tCO_2e

City Operations

The City is directly responsible for between 1-2% of community emissions. These emissions are the result of delivering City services to residents, including emergency services (fire, police, emergency preparedness), waste management (garbage, recycling, green waste), recreation, parks and trails management, maintenance of roads and sidewalks, and many more. In 2023, City operations (buildings and fleet vehicles) resulted in 1726 tCO_2e, with over 55% from operating buildings, and 45% from fleet operations.

Port Moody has made progress on reducing emissions and ensuring City services are resilient to the impacts of climate change. Examples of this progress include, completing climate audits on all civic facilities, undertaking a fleet assessment to outline the city's transition to an electric and low carbon fleet, and envelope upgrades to several city facilities to ensure they are utilizing energy efficiently.

Port Moody Community-Wide GHG Emissions and Targets



Through the 2020 Climate Action Plan, Port Moody has committed to reducing GHG emissions 40% from 2007 levels by 2030 and to carbon neutrality by 2050. The graph above shows the progress Port Moody has made towards these targets. The latest community emissions inventory update shows that overall Port Moody has made progress with a 38% reduction however it is not near the level of sustained GHG reductions that will be necessary to achieve the 2050 target. The latest inventory shows a time prior to implementing the CAP; therefore, staff anticipate greater GHG reductions in future years as the CAP is implemented. Staff continue to focus resources and initiate actions that have a high potential to reduce GHG emissions and increase climate resilience.

It's important to recognize that the latest community emissions inventory shows a time before implementation of many local and province-wide initiatives such as the 2020 Climate Action Plan, completion of Energy Step Code compliant buildings, and increased provincial incentives for fuel switching home heating systems and purchasing electric vehicles. Higher levels of government have enhanced their climate action commitments that will have trickle down effects on Port Moody's GHG emissions. Staff anticipate greater GHG reductions in future updates of the community emissions inventory and as the CAP is implemented.

Between 2007 and 2021, 84,557 tCO_2e were reduced. This means that to achieve the 2030 reduction target 5,422 tCO_2e will need to be reduced between 2021 and 2030. This reduction equates to approximately 602 tCO_2e per year. Given that the Climate Action Implementation Strategy did not initiate until 2021 and anticipating that there is a ramping up period to get the reductions underway, it is anticipated that annual reductions between 2022-2030 will need to be closer to 678 tCO_2e a year to stay on target.

Sector Climate Action GHG Emissions Reduction Targets

There are several sector specific targets that are being tracked to indicate climate action progress. The targets span three mitigation focus areas – Buildings, Transportation and Mobility, and Waste Reduction and Management. The table below lists the committed targets and their progress to date. Some of the targets are in progress as current data reporting is not sufficient to capture a measurement, however, work is underway to explore ways to track in future years.

Focus Area CAP Targets		Target Year	Progress on Targets
Buildings	All new and replacement heating and hot water systems are zero emissions.	2030	In progress; Currently community GHG emissions inventories do not distinguish heating and hot water system types per home, however staff are working with the Province, regional partners, and utilities to acquire more frequent, reliable data at the local level. <u>Proxy indicator - 2022 CleanBC Rebates Issued:</u> Electric service upgrade: 9 Air source heat pumps: 68 Heat pump water heaters: 2
	All oil and propane heating and hot water systems are replaced with zero emission systems.	2030	
	All buildings have replaced heating and hot water with zero emission systems.	2050	

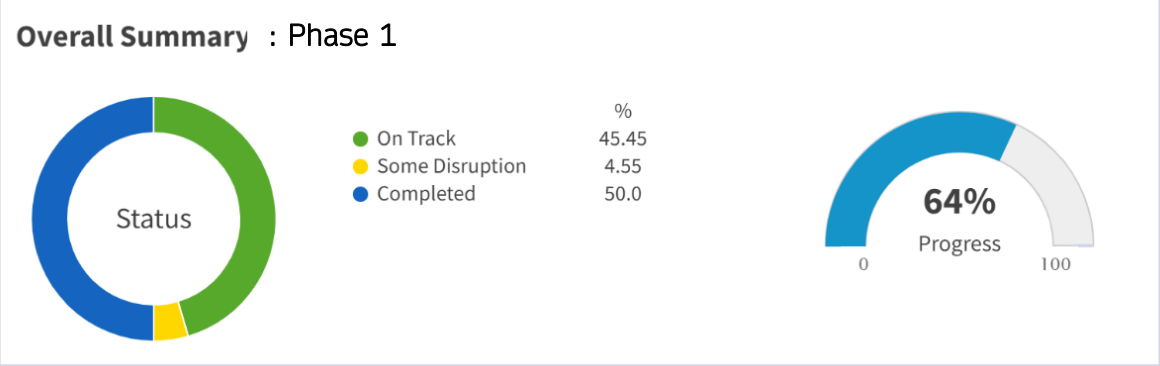
			Proxy Indicator - 2023 Clean BC Rebates Issued: Electrical service upgrade: 5 Air source heat pump: 64 Heat pump water heater: 0 Heat Pump Group Purchase Rebates: 32 141 residential installs for all Ductless Heat Pumps, Central Ducted Heat Pumps, and Dual Fuel Heat Pumps (CleanBC).
	Reduce the carbon content of new buildings and construction projects by 40% (compared to 2018)	2030	In progress; 2018 baseline established; however, development applicants need to submit lifecycle Assessments (LCA) in order for the City to track progress. Staff are exploring an LCA requirement in phase two (2023 – 2024) climate action implementation.
	Achieve an 80% reduction in operational emissions (civic facilities)	2030	Between 2017 (baseline) and 2023, the City reduced 82.19 tCO_2e from civic facilities equating to a 8% reduction in civic facility emissions.
Transportation and Mobility	Residents walk, cycle or take transit for 40% of trips (up from 17% in 2017).	2030	In progress; mode share progress will be updated as part of the Master Transportation Plan update underway.
	40% of passenger vehicles, and 25% of commercial vehicles are electric.	2030	Passenger % of EVs in 2022 = 5% Commercial % of EVs in 2022 = 0%
Waste Reduction and Management	Minimize waste going to landfill and achieve zero emissions from waste.	2050	2021 waste emissions = 4,144 tCO_2e 2021 waste tonnage = 13,184 tonnage of waste sent to landfill 2023 waste diversion rate = 73% (Port Moody exceeded the Metro Vancouver target of 70% by 2020) Port Moody will aim to continue to deliver high waste diversion rates and follow Metro Vancouver's regional goals as laid out in the current and future Solid Waste Management Plan.

Phase Two Climate Action Progress

The Climate Action Plan (CAP) identifies 65 actions to be implemented over the coming years, of which 52 have been initiated by the end of 2023 and are currently being worked on. The 52 actions span all 7 focus areas and work towards 16 goals of the CAP. As progress is being tracked between 2021-2023, percent of progress does not accurately account ongoing and long-term actions as they have been removed from the calculation of progress. The goal of phase one and two was to initiate 65 actions, of which 52 have been initiated as of the end of 2023, however, many action implementation timelines exceed phase one and two implementation at end of 2023. The progress below indicates action implementation progress. When the timeline of implementation actions is compared against the 2030 targets timeline that these actions are working towards, implementation progress should be benchmarked against a 20% per year target to allow realization of GHG reductions from implementation before 2030.

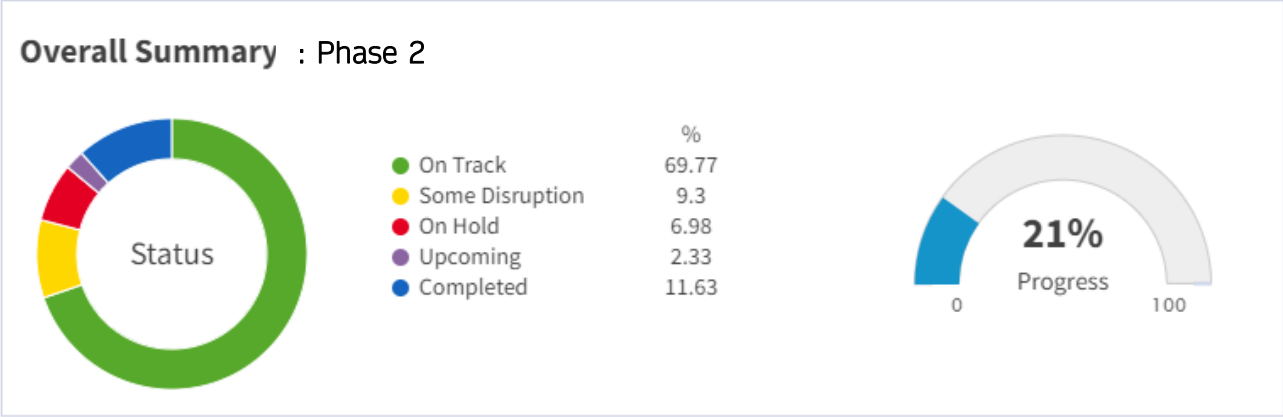
Climate Action Implementation Dashboard

Of the 22 actions planned for Phase One, at the end of year two: 10 actions (45.45%) are 'On Track'. 11 actions (50%) have been 'Completed' and 1 action (4.55%) is currently experiencing 'Some Disruption'. Overall, the 2021-2022 Phase One Climate Action Implementation Strategy progressed as anticipated. 64% of actions were implemented within the two-year timeframe with the remaining actions progressing as anticipated in Phase Two. Staff interpret Phase One Climate Action implementation as being on track as per the benchmark explained above.



Progress on Phase One Actions for Each Focus Area						
Buildings	**Transportation & Mobility**	**Waste Reduction & Management**	**Land Use & Growth Management**	**Infrastructure**	**Emergency Response & Human Health**	**Natural Environment**
Progress 77%	Progress 96%	Progress 15%	Progress 33%	Progress 40%	Progress 56%	Progress 82%

Of the 43 actions being implemented in Phase Two, at the end of year one: 30 actions (69.77%) are 'On Track', 4 actions (9.3%) are experiencing 'Some Disruption', 3 actions (6.98%) are 'On Hold', 1 action (2.33%) is 'Upcoming' and 5 actions (11.63%) have been 'Completed'. Overall, the 2023-2024 Phase Two Climate Action Implementation Strategy is 21% implemented. Staff interpret Phase Two Climate Action implementation as being behind schedule as per the benchmark explained above. This is in large part due to significant staff changes in 2023. It is anticipated that the second year of this phase will show more significant progress.



Progress on Phase Two Actions for Each Focus Area						
Buildings	**Transportation & Mobility**	**Waste Reduction & Management**	**Land Use & Growth Management**	**Infrastructure**	**Emergency Response & Human Health**	**Natural Environment**
Progress 22%	Progress 23%	Progress 7%	Progress 29%	Progress 2%	Progress 17%	Progress 20%

Action Reporting Status	
On Track	Work is progressing and the action is anticipated to meet the designated time frame.
Ongoing	The action has no identified completion timeline and requires continuous work on an annual basis.
Some Disruption	Work has either not started or it is progressing, but the pace of effort needs to increase before it can be considered on track to meet the designated timeframe.
On Hold	The action is currently on hold and work is not progressing.
Upcoming	The action has not yet started and is slated for implementation in the future.
Completed	The action has been implemented.

Buildings

Buildings are the largest source of emissions in the community. The latest 2021 community-wide greenhouse gas (GHG) inventory indicates that there has been a 50% decrease in emissions from residential and commercial buildings in the community between 2007 and 2021. 2021 is the most recent year for Community Energy and Emission Inventory data from the province due to a 2-year data collection delay. Progress in this area was made largely due to the closure of some larger industrial emissions sources within the Municipality such as Burrard Thermal (a natural gas-fired power generation plant) and the Flavelle Sawmill. Increases in the energy efficiency of home heating, cooling and hot water systems, fuel switching, and better insulation of walls, windows, and doors, supported by the Provincial Building Code energy efficiency standards and home energy retrofit rebates have also contributed.

Despite the progress made, Port Moody has not yet achieved the trajectory needed to meet 2030 GHG reduction targets in the buildings area. Port Moody has made progress on climate action by adopting the BC Energy Step Code with a focus on low carbon energy systems, developing a Climate Ready Homes and Buildings Plan, updating the Sustainability Report Card, and advocating for climate focused building regulation in BC. As additional actions from Phase One and Two are implemented, further GHG reductions will be realized in future years.

Progress on Building Targets

Community

Baseline:	2007	Port Moody's building emissions	144,440 tCO_2e
Latest Measurement:	2021	Port Moody's building emissions	71,653 tCO_2e
Progress			↓ 50%

City Owned Facilities

Baseline:	2017	Port Moody's building emissions	1043 tCO_2e
Latest Measurement:	2023	Port Moody's building emissions	960 tCO_2e
Progress			↓ 18%

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 1.1.1	**Sustainability Report Card Update** (PHASE 1) Improved review tool that allows applicants to prepare proposals that address the City's environmental goals by promoting sustainable development. Revise the City's Sustainability Report Card to include performance measures to reduce operational and embodied GHG emissions and climate risks.	Mar 01, 2021	Mar 31, 2022	Completed	Progress 100%	Phase One Actions
Actions 1.1.2	**Facility Climate Audits** (PHASE 1) Perform comprehensive climate audits on all civic facilities and prioritize upgrades where feasible and highest risk.	Oct 30, 2020	Feb 28, 2024	Completed	Progress 100%	Phase One Actions
Actions 1.1.3	**Climate Ready Homes and Buildings Plan** (PHASE 1) Develop a resilient, zero-emissions plan for all new and existing buildings that includes addressing indoor air quality and climate risks where possible.	Jan 04, 2021	Jul 31, 2022	Completed	Progress 100%	Phase One Actions
Actions 1.1.4	**Federal/Provincial Building Advocacy** (PHASE 1 - ONGOING) Initiate/continue discussions with federal and provincial governments to advocate for authority, financing tools, benchmarking, and other policies essential for achieving zero emissions buildings.	Ongoing	Dec 31, 2030	On Track	Progress 9%	Phase One Actions
Actions 1.1.5	**Embodied Emissions in New Construction Research and Options** (PHASE 2) Undertake research, industry consultation, and a legal review to outline options and implementation considerations for requiring and/or incentivizing embodied emissions reduction in new construction projects. Action under the Climate Ready Homes and Buildings Plan.	Jan 09, 2023	Mar 31, 2025	On Track	Progress 7%	Phase Two Actions
Actions 1.1.6	**BC Energy Step Code Acceleration** (PHASE 2) Accelerate adoption of the BC Energy Step Code beyond the current early adoption schedule and include a greenhouse gas intensity (GHGi) requirement to maximize energy efficiency and low carbon opportunities for new construction.	Jan 23, 2023	Dec 27, 2024	On Track	Progress 9%	Phase Two Actions Strategic Project Priority 2

Actions 1.1.7	**Concierge Retrofit Program** (PHASE 2) Design and implement a concierge retrofit program for large and small buildings that encourages and helps facilitate energy efficiency and low carbon retrofits for existing large and small buildings.	Jan 23, 2023	Dec 31, 2024	On Hold	Progress 5%	Operational Project Phase Two Actions
Actions 1.1.8	**Revise the Demolition Permit to Increase Recycling and Deconstruction Requirements** (PHASE 2) Revise the City's Waste Management Bylaw requirements to increase recycling and deconstruction requirements.	Jan 03, 2023	Mar 31, 2023	Completed	Progress 100%	Phase Two Actions
Actions 1.1.9	**Identify Oil and Propane-Heated Buildings** (PHASE 2) Identify oil and propane heated buildings in Port Moody and outline strategies to support fuel switching of these properties to low carbon energy systems.	Feb 01, 2024	Sep 30, 2024	Some Disruption	Progress 7%	Phase Two Actions
Actions 1.1.10	**Implement Permit Streamlining for Low Carbon Buildings** (PHASE 2) Design and implement a streamlined development application for priority areas policy.	Jan 09, 2023	Dec 31, 2024	On Hold	Progress 40%	Phase Two Actions
Actions 1.1.11	**Building Energy Benchmarking and Disclosure Requirement for Part 3 Buildings** (PHASE 2 - ONGOING) Outline and implement a mandatory building energy benchmarking and disclosure requirement for part 3 buildings that are already built or recently received occupancy.	Jan 03, 2023	Dec 31, 2029	On Track	Progress 7%	Operational Project Phase Two Actions
Actions 1.1.12	**Top-ups for Existing Incentive Programs** (PHASE 2) Provide municipal top ups on existing rebate programs to further encourage and incentivize fuel-switching and energy efficiency retrofits.	Jan 23, 2023	Dec 31, 2023	Completed	Progress 100%	Phase Two Actions
Actions 1.1.13	**Update Bylaw Barriers for Low Carbon New Buildings and Retrofits** (PHASE 2) Review and update bylaws to remove barriers to energy efficiency and low carbon opportunities for new construction.	Jan 03, 2023	Dec 31, 2024	On Track	Progress 30%	Phase Two Actions

Actions 1.1.14	**Thermal Conditioning Permit Program** (PHASE 2) Develop a thermal conditioning permit that would apply to all space heating, cooling and domestic hot water equipment in new and existing buildings. The thermal conditioning permit will support proper heat load calculations, mechanical design, and installation of heat pumps.	Jan 03, 2024	Jan 31, 2025	On Track	Progress 4%	Operational Project Phase Two Actions
Actions 1.1.15	**Zero Emissions Municipal Building Policy** (PHASE 2) Develop a zero emissions municipal building policy and track progress against GHG reduction targets for municipally owned buildings to guide emissions reduction retrofits and renovations. The policy will include the requirement to use future climate data in the design and renovation and facilities.	May 01, 2023	Dec 31, 2024	On Track	Progress 40%	Operational Project Phase Two Actions
Actions 1.1.16	**Embodied Emissions Disclosure at Time of Permit** (PHASE 2) Create and implement an administrative requirement for the calculation and disclosure of embodied emissions at the time of permitting for new construction projects.	Jan 02, 2024	Sep 30, 2024	On Track	Progress 5%	Phase Two Actions
Actions 1.1.17	**Encourage Voluntary Disclosure for Carbon and Risk of Part 3 Buildings** (PHASE 2 - ONGOING) Encourage voluntary disclosure for carbon and risk of Part 3 buildings by working with real estate industry members to socialize and encourage voluntary labelling, home energy performance, and flood risk disclosure at the time of sale.	Jan 02, 2024	Dec 31, 2029	On Track	Progress 4%	Phase Two Actions
Actions 1.1.18	**Benchmark and Disclose Civic Facility Energy Use and Emissions Annually** (PHASE 2 - ONGOING) Continue to work to publicly benchmark and disclose civic facility energy use and emissions annually.	Jan 03, 2023	Dec 31, 2029	On Track	Progress 10%	Operational Project Phase Two Actions

Progress of Key Performance Indicator

Linked Action	KPI Description	Baseline	Update	Notes
1.1.1	Report Card User Satisfaction	TBD	2023 - Internal staff workshops were completed to evaluate the effectiveness of the report card and recommendations will be worked on in 2024.	
1.1.1	Report Card Average Score	TBD	2023 – Varies - Scores for each pillar have been evaluated and potential improvements have been identified.	Pillar Averages for 2023 (based on 15 Sustainability Report Cards): Cultural 25 / 56 Economic 34 / 93 Environmental 45 / 172 Social 43 /165
1.1.2	Annual Facility Energy Consumption	2017 – 39,320 eGJ	2023 – 37,640 eGJ	N/A
1.1.2	Annual Facility GHG Emissions	2017 – 1043 tCO_2e	2023 – 960 tCO_2e	N/A
1.1.2	Number of facilities with completed climate audits	2020 - 0 out of 26 facilities	2023 – 26 out of 26 facilities	All audits of civic facilities have been conducted. In 2022, the artist studios on Esplanade have been renovated and electrified with air source heat pumps for space heating. There were no further projects in 2023.
1.1.3	Annual community building energy consumption	2007 Electricity (Residential) - *100,859,938 kWh* Electricity (Commercial & Small-Medium Industry) - *80,145,959 kWh*	2021 Electricity (Residential) - *107,936,000 kWh* Electricity (Commercial & Small-Medium Industry) – *82,293,000 kWh*	2021 is the most recent year from Community Energy and Emission Inventory data from the province due to a 2-year data collection delay. Electricity use has increased, natural gas

		Natural Gas (Residential) – *723,945 GJ* Natural Gas (Commercial & Small-Medium Industry) – *1,995,705 GJ* Wood (Estimate) – *15,101 GJ* Oil (Estimate) – *25,355 GJ* Propane (Estimate) – *37,535 GJ*	Natural Gas (Residential) – *670,376 GJ* Natural Gas (Commercial & Small-Medium Industry) – *640,833 GJ* Wood (Estimate) – *15,053 GJ* Oil (Estimate) – *25,276 GJ* Propane (Estimate) – *37,417 GJ*	use has decreased along with propane, heating oil and wood.
1.1.3	New Units Built with GHG Reduction and Resiliency Measures	2021 – 16 2022 - 24	2023 - 2 solar panel installations on Single Detached Dwellings.	2023 - Issued Energy Step Code Level 3 Building Permits = 100% of the units.
1.1.3	Units Renovated with GHG and Resiliency Measures	2021 - 2 2022 – 12	2023 - 15 A/C unit installations into dwelling units in multi-unit buildings. 141 residential installs for all Ductless Heat Pumps, Central Ducted Heat Pumps, and Dual Fuel Heat Pumps (Proxy Indicator - 2023 Clean BC Rebates Issued)	Building Permits for A/C units renovated (excluding single family dwellings)
1.1.4	Number of organizations supporting advocacy messages	2021 - 36 BC municipalities, 7 NGOs	2023 - 36 BC municipalities, 7 NGOs	N/A
1.1.4	Number of Advocacy Events Engaged In	2021 – 7	2023 – 5	Events include meetings with Ministers and Provincial staff. Events have resulted in anticipated altered policy.
1.1.4	Number of Altered Policies as a Direct or Indirect Result of Advocacy	2020 - 0	2023 – 2 in progress	Province has committed to carbon performance standards for new construction and is developing a roadmap for PACE financing. Zero Carbon Step Code has also been launched.

Transportation and Mobility

Transportation is the second largest source of GHG emissions in Port Moody. The latest 2021 community emissions inventory indicates that there is an estimated 18% decrease in emissions from transportation from 2007. Light and heavy-duty vehicles are the major GHG emitting culprits, however, the registration of electric and hybrid vehicles has increased from 184 electric and 456 hybrid vehicles in 2018 to 904 electric vehicles and 943 hybrid vehicles in 2022 (the latest ICBC data). Based on the most recent transportation survey data (TransLink Trip Diary, 2017), almost 83% of trips in Port Moody were made by vehicle compared to 84% in 2011. Of the remaining trips, half are by transit, half are by walking and a negligible number are by bicycle. Further progress across this area will be shown through the next release of the TransLink Trip Diary. Port Moody has made progress on mobility-related climate action by operating and maintaining electric vehicle (EV) charging stations, improving walkability, connecting mobility nodes, purchasing zero emission vehicles, and requiring EV charging infrastructure in new developments. As foundational actions from the CAP (e.g., updated Master Transportation Plan, Zero Emissions Mobility Strategy and Fleet Strategy) are implemented, further GHG reductions will be realized in future years.

Progress on Transportation and Mobility Targets

Community

Baseline:	2007	Port Moody's community transportation emissions	78,430 tCO_2e
Latest Measurement:	2021	Port Moody's community transportation emissions	64,602 tCO_2e
Progress			↓ 18%

City Fleet

Baseline:	2007	Port Moody's City fleet transportation emissions	714 tCO_2e
Latest Measurement:	2022	Port Moody's City fleet transportation emissions	776 tCO_2e *
Progress			↑ 9%

* The slight increase in emissions is due to the City having a larger fleet of vehicles than in 2007 to deliver key services. However, the efficiency of these new vehicles has increased with the purchase of hybrid and zero emission models hence a relatively small increase in emissions.

Goal(s) 2.1
Reduce greenhouse gas emissions from the City's fleet of vehicles.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 2.1.1	**Conduct a Fleet Assessment** (PHASE 1) Conduct a utilization assessment of the City's fleet and identify opportunities to increase efficiency and reduce GHG emissions.	Dec 01, 2020	Feb 28, 2023	Completed	Progress 100%	Phase One Actions

Goal(s) 2.2
Support the use of alternative and zero-emission transportation options.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 2.2.1	**Master Transportation Plan Update** (PHASE 1) Update, accelerate and fund implementation of the Master Transportation Plan projects to reduce GHG emissions by 2030, including accelerating alternative transportation goals, and initiatives focused on transit, transit-oriented development, and paths and trails.	Oct 01, 2021	Mar 29, 2024	Some Disruption	Progress 90%	Phase One Actions

Goal(s) 2.3
Encourage residents to use clean vehicles that emit low or zero levels of greenhouse gases.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 2.3.1	**Tri-Cities Climate Mobility Strategy** (PHASE 1) Develop a Tri-Cities Climate Mobility Strategy including enhancing zero-emission vehicle infrastructure, integrating car sharing and public transit, programs and initiatives to encourage Port Moody businesses to choose zero-emission transportation options (e.g. reduced transit passes for employees), and supporting uptake of active transportation.	Jan 03, 2022	Apr 30, 2024	On Track	Progress 98%	Phase One Actions
Actions 2.3.2	**Develop Business License Requirements that Support Low-Emission Ride-Hailing Services and Autonomous Vehicles** (PHASE 2) Develop business license requirements that support low-emission ride-hailing services and autonomous vehicles in Port Moody.	Dec 01, 2022	Jan 31, 2023	Completed	Progress 100%	Phase Two Actions
Actions 2.3.3	**Advocate for Significant Policy Changes that Reduce Emissions from Transportation** (PHASE 2 - ONGOING) Advocate for significant policy changes at higher levels of government that reduce emissions from transportation.	Jan 03, 2023	Dec 31, 2029	On Track	Progress 7%	Phase Two Actions
Actions 2.3.4	**Zero-Emission Vehicle Education Campaign** (PHASE 2 - ONGOING) Create public education campaigns to increase awareness and uptake of zero emissions vehicle options.	Jan 02, 2024	Dec 31, 2029	On Hold	Progress 6%	Operational Project Phase Two Actions

Progress of Key Performance Indicators

Linked Action	KPI Description	Baseline	Update	Notes
2.1.1	Fleet Related GHG Emissions	2007 – 714 tCO_2e	2023 – 776 tCO_2e	Fleet emissions for 2022 were 822 tCO_2e.
2.1.1	Number of Zero Emissions Vehicles in the City's Fleet	2007 – 0 2022 – 4	2023 - 5	The 5 vehicles are made up of - 2 electric ice resurfacers, facilities vehicle, electric bylaws vehicle and an electric off-road parks vehicle. Six additional electric vehicles are due to come online in 2024.

2.2.1	Mode split ratios of transportation methods in the community	2011 • Auto Driver (68%) • Auto Passenger (15%) • Transit (8%) • Walk (6%)	2017 • Auto Driver (65%) • Auto Passenger (18%) • Transit (9%) • Walk (9%)	From Translink Trip Diary Data from 2011 and 2017 (the latest data).
2.2.1	Number of Traffic related fatalities	2009-2013 = 1 (2018)	2018-2022= 1 (2019)	
2.2.1	Vehicle kms Travelled	2016 = 10 km/person/day (Census data)	2017 Average trip length • Transit (20.1 km) • Auto driver (10.5 km) • Auto Passenger (7.5 km) • Walk (0.9km)	
2.2.1	Number of Traffic Crashes	2009-2013 = 700 per year	2018-2022 = 2048 total (Approx 410 per year)	Latest ICBC Data.
2.3.1	Annual Community Transportation Emissions	2007 – 78,430 tCO_2e	2021 - 64,602 tCO_2e	2021 is the most recent year of Community Energy and Emission Inventory data from the province due to a 2-year data collection delay.
2.3.1	Number of Public/Private Owned EV Charging Stations in Port Moody	2018 – 8 Plugs	2023 – 38 Plugs	
2.3.1	Annual Zero Emissions Vehicles Registered in Port Moody	2018 Electric Vehicles – 184 Hybrids - 456	2022 Electric Vehicles – 904 Hybrids - 943	Latest ICBC data.

Waste Reduction and Management

Based on the 2021 community emissions inventory, emissions from waste have increased by 15% between 2017 and 2021, however, changes in access to data since 2017 have increased the tonnage attributed to Port Moody, therefore 2017 is now used as the baseline year. While waste has appeared to have increased significantly in recent years, it is likely that historical waste tonnage was higher than reported. Due to limitations of data, caution should be applied when drawing conclusions from regional solid waste data. Port Moody has held its high diversion rate of 73% in 2023. Although tonnage of waste increased from 4,610 tonnes in 2007 to 13,184 tonnes in 2021, waste only contributes approximately 3% of total community GHG emissions. Waste reduction continues to be a priority in the community and Port Moody has made progress such as continuing the dog waste diversion program, providing community waste information campaigns, and curbside collection of recycling and organics. Staff anticipate that as many of the foundational actions from the CAP are implemented (e.g. advocate for and collaborate on regional waste initiatives, develop a zero-waste strategy for city facilities and events) GHG reductions will be realized in future years.

Progress on Waste Reduction and Management Targets

Baseline:	2007	Port Moody's solid waste emissions	2,100 tCO_2e
	2017	Port Moody's solid waste emissions	3,590 tCO_2e
	2018	Port Moody's solid waste emissions	2,936 tCO_2e
	2019	Port Moody's solid waste emissions	3,686 tCO_2e
	2020	Port Moody's solid waste emissions	3,541 tCO_2e
Latest Measurement:	2021	Port Moody's solid waste emissions	4,144 tCO_2e
Progress	(2017 – 2021) **+15%**		

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 3.1.1	**Metro Vancouver Solid Waste Advocacy** (PHASE 1 - ONGOING) Initiate/continue discussions with Metro Vancouver to advocate for initiatives and policies to reduce waste, increase capture of methane at landfills, and increase reporting and awareness on waste generation.	Ongoing	Dec 31, 2030	On Track	Progress 14%	Phase One Actions
Actions 3.1.2	**Zero Waste Strategy for City Facilities, Parks, and Events** (PHASE 2) Create a zero-waste strategy for to eliminate waste going to the landfill from city owned buildings, parks, and events.	Jan 03, 2023	Apr 30, 2024	On Track	Progress 20%	Operational Project Phase Two Actions

Progress of Key Performance Indicators

Linked Action	KPI Description	Baseline	Update	Notes
3.1.1	Percentage of waste diverted from the landfill	2019 – 70%	2023 – 73%	Waste Diversion Rates- • 2021:74% • 2022: 73% • 2023 73%
3.1.1	Number of Staff Attending Regional Committee Meetings	2020- 2	2023 - 2	Staff continue to attend all applicable meetings.

Land Use and Growth Management

Land use decisions made by local governments profoundly influence the environmental, social and economic health of communities. Density levels and land use mixes will determine travel distances between the places where residents live, work and play. The economic vibrancy of any given neighbourhood and the potential for renewable energy also hinge on the mix and density of land uses found there. Street design, combined with investments in transit and cycling infrastructure, greatly influence residents' transportation choices and the resulting GHG emissions. The creation of higher density mixed commercial and residential uses within transit-oriented areas is a key part of achieving the City's climate action goals. Creating complete neighbourhoods in other parts of Port Moody by providing a range of services, parks and amenities within walking distance of residential uses will also significantly contribute to reducing emissions and increasing livability. Port Moody has made progress on informed and climate- friendly land use decisions such as encouraging density around transportation hubs, assessing transportation demand impact of new developments, and evaluating the risk of climate impacts on land use such as coastal flooding. Staff anticipate that as many of the foundational actions from the CAP (e.g. TDM strategy requirements for developments and developing a Coastal Flood Management Strategy) are implemented that increased resilience and GHG reductions will be realized in future years.

Goal(s) 4.1

Incorporate climate change risks and vulnerability assessments into land use planning and development.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 4.1.1	**Design Guidelines - Climate Lens Update** (PHASE 2) Review and update existing design guidelines to maximize energy efficiency and low carbon opportunities along with increasing resilience to climate change impacts for new construction. This project is integrated with the updates to the Subdivision and Development Servicing Bylaw which includes updates to all engineering design criteria and will result in the creation of a design criteria manual (DCM) for Port Moody. The DCM will incorporate industry best practices and standards for sustainability and climate changes for all infrastructure.	Sep 01, 2023	Jun 30, 2024	Some Disruption	Progress 6%	Operational Project Phase Two Actions
Actions 4.1.2	**Hazard Mapping and DPA - Climate Lens Update** (PHASE 2) Apply a climate lens to existing hazard mapping and development permit areas to decrease the risk of impacts associated with climate change and require low carbon solutions for new developments.	Jan 02, 2024	Dec 31, 2025	On Track	Progress 5%	Operational Project Phase Two Actions
Actions 4.1.3	**Sustainable Building Rezoning Policy** (PHASE 2) Update and expand existing rezoning policies to maximize energy efficiency and low carbon opportunities for new construction.	Jan 02, 2024	Dec 31, 2024	On Track	Progress 9%	Operational Project Phase Two Actions

Goal(s) 4.2

Develop a complete, connected, and compact community to minimize transportation and buildings emissions.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 4.2.1	**Encourage TOD Density** (PHASE 1 - ONGOING) Encourage density and mixed-use neighborhoods around transportation hubs through the Official Community Plan and development applications.	Ongoing	Dec 31, 2030	On Track	Progress 1%	Phase One Actions
Actions 4.2.2	**Transportation Assessment for New Developments** (PHASE 1) Require developers to include comprehensive transportation demand management (TDM) strategies in proposals for new large development projects.	Oct 01, 2021	Dec 22, 2023	Completed	Progress 100%	Operational Project Phase One Actions
Actions 4.2.3	**Create and Implement a Policy to Encourage Development of Complete, Compact Communities** (PHASE 2) Develop and implement a policy to encourage development of complete, compact communities.	Jan 02, 2024	Dec 31, 2024	Completed	Progress 100%	Phase Two Actions

Goal(s) 4.3

Manage shoreline erosion from sea level rise and coastal flooding.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 4.3.1	**Fraser Basin Council Flood Collaboration** (PHASE 1 - ONGOING) Continue to work with the Fraser Basin Council on the Lower Mainland Flood Management Strategy and public education on flood risk.	Ongoing	Dec 31, 2030	On Track	Progress 7%	Phase One Actions
Actions 4.3.2	**Coastal Flood Management Strategy** (PHASE 1) Develop a Coastal Flood Management Strategy to assess and respond to coastal flooding, coastal squeeze, shoreline erosion and inundation.	Jan 10, 2022	Jun 30, 2025	On Track	Progress 23%	Phase One Actions

Progress of Key Performance Indicators

Linked Action	KPI Description	Baseline	Update	Notes
4.2.1	Percent of new dwelling units approved within an 800m distance to transit stations.	TBD	1433 residential units in 2022 and 2023 were issued building permits.	
4.2.1	New Commercial floor area built within 800m of transit	TBD	63,485 sq ft of completed commercial floor area (with occupancy) in 2022 and 2023.	
4.2.2	Community Walk Score	2021 walk score - 42. 2021 bike score – 42.	2023 walk score - 42. 2023 bike score – 42.	25-49 = car-dependent community 0-49 = somewhat bikeable community Even though the walk and cycle score has not changed since 2021, staff anticipate that as new improvement projects are completed (E.g. multi-use pathway on Murray Street and St Johns Street) these will be reflected in the score for the next reporting cycle.
4.3.1	Annual Staff Participation in Fraser Basin Council LMFMS Process	2020 - 1	2023 - 4	N/A
4.3.2	Budget Dedicated to Coastal Flood Risk Management	2019 - $0	$55,000 - 2023 New Initiatives Reserve $55,000 - 2023 Drainage Capital Reserve	$55,000 - 2023 New Initiatives Reserve $55,000 - 2023 Drainage Capital Reserve $90,000 - 2022 New Initiatives Reserve $100,000 - 2022 Capital Reserve
4.3.2	Number of Organizations Engaged in Coastal Flood Risk Management	2021 - 1	2023 - 1	

Infrastructure

Infrastructure includes assets that provide many of the services needed and desired in a community. Managing both traditional and natural assets with a climate lens will ensure that investments will be functional throughout their lifespans. Choices in the design and operation of infrastructure affect GHG emissions produced within Port Moody's boundaries as well as outside and will be directly impacted by climate change. Port Moody has made progress on designing, maintaining and operating infrastructure that is low carbon and resilient such as using non-potable water for City irrigation, integrating climate change considerations into stormwater management practices and prioritizing natural infrastructure solutions. Staff anticipate that as many of the foundational actions from the CAP (e.g., low carbon resilient asset management and continuing to incorporate climate change in stormwater management process and planning) are implemented that further resilience will be realized in future years.

Goal(s) 7.1
Reduce water consumption.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 7.1.1	**Water Metering Feasibility Study** (PHASE 2) Develop a plan that will work towards universal water metering in Port Moody.	Jan 03, 2023	Feb 28, 2025	Some Disruption	Progress 9%	Operational Project Phase Two Actions

Goal(s) 7.2
Minimize urban flooding due to heavy rainfall

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 7.2.1	**Stormwater Climate Integration** (PHASE 1 - ONGOING) Incorporate climate change considerations into stormwater management process and planning.	Ongoing	Dec 31, 2030	On Track	Progress 40%	Phase One Actions

Goal(s) 7.3

Ensure civic infrastructure and natural assets are well-maintained and improved/ restored/replaced when necessary so they are more resilient to the anticipated effects of climate change.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 7.3.1	**Implement Effective Utility Management Principles** (PHASE 2 - ONGOING) Implement effective utility management principles in daily operations to reduce consumption of potable water and improve the efficiency of the utility system.	Jan 03, 2024	Dec 31, 2030	On Track	Progress 2%	Phase Two Actions
Actions 7.3.2	**Develop a Green Infrastructure Strategy** (PHASE 2 - ONGOING) Develop and implement a green infrastructure strategy to strategically increase and manage green infrastructure in the community. Full scope and initiation of this project is currently being held pending updates on the Natural Asset Management Strategy for coordination.	Oct 16, 2023	Dec 31, 2030	On Track	Progress 1%	Phase Two Actions Strategic Project Priority 2
Actions 7.3.3	**Climate Lens on Water Distribution and Wastewater Collections Systems** (PHASE 2 - ONGOING) Incorporate climate change considerations into the City's water distribution and wastewater collection systems.	Jan 03, 2023	Dec 31, 2030	On Track	Progress 3%	Phase Two Actions
Actions 7.3.4	**Climate Risk Assessments of Critical or Vulnerable Municipal Assets** (PHASE 2 - ONGOING) Complete more detailed climate risk assessments of critical or vulnerable municipal facilities and/or assets (e.g. using Public Infrastructure Engineering Vulnerability Committee (PIEVC) Protocol).	Jan 03, 2023	Dec 31, 2030	On Track	Progress 1%	Phase Two Actions

Progress of Key Performance Indicators

Linked Action	KPI Description	Baseline	Update	Notes
7.2.1	Adoption of the Updated Servicing Bylaw	2020 – 0%	2023 – 33%	Enabling work is underway, due for completion in 2024.
7.2.1	Number of Integrated Stormwater Management Plans Completed	2020 – 1 2021 – 3 2022 - 2	2023 – 2 underway	Area A (North Shore) and Area B (Inlet Center) are almost complete. To be Finalized in April 2024. Area C has been changed to a comprehensive stormwater management plan with IDF curves. To be initiated in August 2024 with an anticipated completion date in Fall 2025.
7.2.1	Watershed Health (Ongoing on a 5-year cycle)	TBD	TBD	Year 1 data collection completed in December 2023; analysis is underway.

Emergency Response and Human Health

In 2023, we continued to see unprecedented climate impacts in BC. Wildfires burned across the province, heat dome extreme temperatures blanketed the summer, atmospheric river rainfall and flooding occurred, and extreme cold towards the end of the year. It is apparent that we are facing climate change impacts head on. Often community members are not all impacted to the same extent by climate change. Marginalized groups may be disproportionately impacted by climate change and have fewer resources to support preparedness and adaptation. Support and intervention to focus first on those most vulnerable to climate change impacts. Port Moody has made progress on preparing people, services, and infrastructure for climate change such as developing an Extreme Weather Resilience Plan and a Wildfire Protection Plan and providing inclement shelters during times of extreme weather. Staff anticipate that as many of the foundational actions from the CAP (e.g., extreme weather and emergency preparedness outreach) are implemented that further resilience will be realized in future years.

Goal(s) 5.1

Ensure all members of the community have equal access to information, support, and resources related to preparing for climate change impacts.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 5.1.1	**Emergency Preparedness Education** (PHASE 1 - ONGOING) Continue to inform and facilitate community education about preparedness across hazards, and build stronger connections with community associations and businesses with the aim of improved preparedness for extreme weather events.	Ongoing	Dec 31, 2030	On Track	Progress 12%	Phase One Actions Phase Two Actions
Actions 5.1.2	**Advocate for Upgrades to School Air Conditioning** (PHASE 2) Advocate to the Province for upgrades to school air conditioning systems to ensure safety and health during times of extreme heat.	Jan 03, 2023	Jun 01, 2023	Completed	Progress 100%	Phase Two Actions
Actions 5.1.3	**Establish Extreme Weather Ambassadors** (PHASE 2 - ONGOING) Engage, connect, and collaborate with neighbourhood groups to establish "extreme weather ambassadors". Staff will work with these ambassadors to provide updated information through City lead workshops and train-the-trainer workshops to develop neighbourhood cooling plans by leveraging best practices already implemented in peer cities.	Jan 03, 2023	Dec 31, 2024	On Track	Progress 15%	Operational Project Phase Two Actions
Actions 5.1.4	**Develop a Registry of Vulnerable Populations** (PHASE 2 - ONGOING) Develop a registry of vulnerable populations within the city. This will be valuable to determine type, quantity and location of support and resources during extreme weather events.	May 01, 2024	Dec 31, 2029	Upcoming		Phase Two Actions

Goal(s) 5.2

Ensure the City is ready to respond to climate-related hazards, such as flooding, wildfires, and extreme heat.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 5.2.1	**Extreme Weather Resilience Plan** (PHASE 1) Develop an Extreme Weather Resilience Plan with a focus on supporting the most vulnerable populations and identify and improve the capacity of multi-purpose areas within civic facilities and parks that could be converted to cooling, warming, and emergency support centres when needed.	May 28, 2021	Oct 03, 2022	Completed	Progress 100%	Phase One Actions
Actions 5.2.2	**Identify and Expand Opportunities to Provide Clean/Cool Air Community Shelters** (PHASE 2 - ONGOING) Continue to assess, identify, and expand opportunities to provide clean and cool air community shelters during times of extreme heat and/or poor air quality.	Jan 03, 2023	Dec 31, 2029	On Track	Progress 9%	Phase Two Actions
Actions 5.2.3	**Work with Utility Companies to Prioritize Restoration of Power to Lifelines and Vulnerable Populations** (PHASE 2) Work with utility companies to prioritize restoration of power to lifelines and vulnerable populations.	Sep 01, 2023	Dec 31, 2024	On Track	Progress 4%	Phase Two Actions
Actions 5.2.4	**Strata and Building Management Climate Toolkit and Education Campaign** (PHASE 2 - ONGOING) Engage strata councils and large building management companies to integrate extreme weather event emergencies in their plans and communication.	Jan 02, 2024	Dec 31, 2029	On Track	Progress 12%	Operational Project Phase Two Actions
Actions 5.2.5	**Extreme Weather Staffing and Resource Plan** (PHASE 2) Develop a plan that ensures city departments will be adequately staffed and equipped to respond to extreme weather events.	Jan 02, 2024	Dec 31, 2024	On Track	Progress 3%	Phase Two Actions Strategic Project Priority 2
Actions 5.2.6	**Increase Tri-Cities Collaboration and Coordination to Extreme Weather** (PHASE 2) Increase tri-cities collaboration and coordination to extreme weather.	Jan 03, 2023	Dec 31, 2029	On Track	Progress 15%	Phase Two Actions
Actions 5.2.7	**Continue Guidance for City Staff Outdoor Workers During Extreme Weather Events** (PHASE 2 - ONGOING) Review Occupational Health & Safety requirements for City workers impacted operationally during extreme weather events.	Jan 03, 2023	Dec 31, 2030	On Track	Progress 3%	Phase Two Actions

Progress of Key Performance Indicators

Linked Action	KPI Description	Baseline	Update	Notes
5.1.1	Number of People Reached through Outreach	TBD	2023 - 1800	In 2023 this was achieved through: - Fire Safety and FireSmart presentations to all Grade 1 and 3 classes in Port Moody - 28 Firehall tours conducted with various groups including pre-schools, cadets, scouts, etc.) - 5 FireSmart pop-up events – connecting residents and visitors to the city - Library Firehall visits - FireSmart Home Ignition Assessments.
5.1.1	Number of Organizations Partnering on Preparedness Information	2020 – 5 2022 - 5	2023 - 6	Baseline based on organizations working with Fire Rescue on existing messaging.
5.1.1	Social Connectedness	2014 • 4 or more people to confide in or turn to for help – 43% • Community belonging – 61% • Emergency preparedness – 23%	2014 • 4 or more people to confide in or turn to for help – 43% • Community belonging – 61% • Emergency preparedness – 23%	Measured through Fraser Health My Health, My Community survey. No update available this year.
5.2.1	Public Cooling Opportunities	2020 • # of public drinking water fountains- 9 • # of bottle filling stations - 0 • # of temporary misting stations used - 0. • # of water parks/splashpads – 3 water parks/ 2 water features • # of pop-up water parks - 0	2023 • # public drinking fountains – 15 (added 4 in 2023 – Westhill, Ailsa, NSCP, Chestnut) • # of bottle filling stations – 5 (added 3 in 2023 – Westhill, Ailsa, NSCP) • # of temporary misting stations – 4 (3 tents, plus one tunnel)	

		# of pop-up shaded heat relief areas – 0	• # of waterparks/splashpads – 3 • # of water features – 2 • # of pop-up shaded heat relief areas - 3 (misting tents), plus 1 large sunshade at Kyle • # of misting poles - 6 (to be installed in early 2024.	
5.2.1	Number of Organizations Engaged in Developing the Plan	2021 - 0	2023 - 24	

Natural Environment

Species and ecosystems are both impacted by climate change, including changes to species ranges, loss of habitat due to weather pattern changes, drought and storms. Yet the natural environment can also help reduce the severity of climate change impacts on our communities by providing services such as shade during hot summers, infiltration of rainfall and protection against erosion. A multitude of co-benefits are provided by the natural environment ranging from physical and mental health benefits to cleaner air and the sequestration of carbon. Ecosystems and natural areas can be both sinks and sources of GHG emissions and contribute towards reaching GHG reduction targets. However, estimates for land use carbon emissions and sequestration have a high degree of uncertainty today and so they are not reported at this time. Work is underway to explore data in this field to potentially report specifically on this emissions sector in future years.

Port Moody has made progress on protecting and enhancing the natural environment such as continuing to provide information to the community, developing an Urban Forest Management Strategy, Natural Asset Management Strategy and developing climate resilient landscaping strategies for public lands. Natural assets, like parks and natural areas, provide essential municipal services but are often undervalued and managed separately, leading to insufficient investment. Integrating natural assets into our asset management practices can decrease overall costs, improve resilience to climate change, and provide additional community benefits, necessitating their inclusion in broader municipal planning and financial processes. Staff anticipate that as many of the foundational actions from the CAP (e.g., Urban Forest Management Strategy, Natural Asset Management Strategy) are implemented, further resilience will be realized in future years.

Goal(s) 8.1

Restore/strengthen our natural environment so that ecosystems and species are more likely to adapt to the effects of a warming climate and help buffer the impacts.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 8.1.1	**Implement Projects to Restore and Enhance Natural Areas** (PHASE 1 - ONGOING) Continue to implement capital and operational work designed to protect, enhance, and connect natural areas designed to align with existing City and Regional environmental policy.	Jan 01, 2021	Dec 31, 2030	On Track	Progress 8%	Phase One Actions
Actions 8.1.2	**Climate Resilient Landscaping on Public Lands** (PHASE 1) Develop climate resilient landscaping strategies for public lands.	Jan 01, 2021	Jun 30, 2022	Completed	Progress 100%	Phase One Actions
Actions 8.1.4	**Erosion and Sediment Control Improvement** (PHASE 1) Improve Standards for Erosion and Sediment Control for new developments and City projects.	Feb 01, 2021	Dec 31, 2022	Completed	Progress 100%	Phase One Actions
Actions 8.1.5	**Invasive Species Management Program Update** (PHASE 2 - ONGOING) Develop and regularly update the invasive species management program. Implement the invasive species management program.	Mar 01, 2023	Dec 31, 2030	Some Disruption	Progress 10%	Operational Project Phase Two Actions
Actions 8.1.6	**Continue to Partner with Local Stewardship Groups** (PHASE 2 - ONGOING) Continue partnering with local stewardship groups to explore opportunities for collaboration and to maximize and amplify environmental stewardship efforts or raise awareness around environmental issues.	Jan 03, 2023	Dec 31, 2030	On Track	Progress 50%	Phase Two Actions
Actions 8.1.7	**Parkland Strategy** Provide an outlook for parkland acquisition from a City-side perspective, develop broad parks acquisition objectives and identify a number of priority actions to pursue. Provide a general framework and a point of departure for more detailed planning that is required to identify specific parkland requirements which relate back to the OCP and the Parks and Recreation Master Plan.	May 02, 2022	May 31, 2024	On Track	Progress 83%	Strategic Project Priority 1

Goal(s) 8.2

Restore/strengthen our urban forests, which provide benefits such as: reducing emissions by storing carbon; providing shade, moderating air temperature, deflecting strong winds; and improving air quality.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 8.2.1	**Urban Forest Management Strategy** Provide the City with direction in future decisions and management of the urban forest through the development of a vision, values, benefits, principles, goals, objectives, and recommendations. The implementation of the Urban Forest Management Strategy will plan and provide for the long-term protection and sustainable management of trees within the city.	Feb 03, 2020	Oct 31, 2023	Completed	Progress 100%	Phase One Actions Strategic Project Priority 1
Actions 8.2.2	**Natural Asset Management Plan** (PHASE 1) Develop and implement a natural assets management plan with consideration of a carbon budget. Incorporate natural assets into the City's overall asset management plan. Natural assets are ecosystem features that provide, or could be restored to provide, services to the city but historically have not been considered on equal footing or included in asset management plans.	Jan 04, 2021	Mar 29, 2024	Completed	Progress 100%	Phase One Actions Strategic Project Priority 2

Progress of Key Performance Indicators

Linked Action	KPI Description	Baseline	Update	Notes
8.1.1	Initiation of Projects that Protect, Restore and Connect ESAs	2020 – 2 Old Mill Pond Slaughterhouse foreshore 2021 – 2 Stoney Creek Ivy Street 2022- 4 Lower Suterbrook Instream works – Suterbrook Noons as Trasolini Blue Line Trail	2023 – 6 April Creek Seaview Park Bert Flinn Park In stream works (Suter Brook) Old Mill Pond Westhill Park	N/A

8.1.1	Area of Restoration Completed Annually	2019 - 4,500 m^2 2020 - 4,340 m^2 2022 – 5,200 m^2	2023 – 5,350 m^2 (new areas restored – invasive plant removal combined with restoration planting)	Metric reflects area cleared/maintained/planted over the course of the year.
8.1.1	Volunteer Hours Spent on Restoration Annually	2020 - 170 hours 2021 - 222 hours 2022 – 536 hours	2023 – 760 hours	Volunteers contributed an average of 2 hours each.
8.1.1	Crew Days Spent on Restoration Annually	2019: 1,622 hours = 203 person day 2020: 2,385 hours = 298 person days 2022: 2,123 hours = 265 person days	2023 3834 hours = 479 days person days	Avg. crew 2.5 persons – hours including natural areas tree planting, restoration and invasive plant removal.
8.1.2	Number of Landscaped Sites that are reviewed and Enhanced through a Climate Resilient Lens	2021 – 1 2022 – 4	2023 - 5	Inventory of all horticulture assets as a first step for this work; enhanced sites involved taking out/decommissioning irrigation and installing drought tolerant and perennial species, wildflower meadow areas that require less maintenance.
8.1.2	Develop Planting Pallets for Rain Gardens, Boulevards, Horticultural Beds, Vegetated Swales, and Street Horticulture.	2021 – 0%	2023 – 5%	Draft climate resilient landscaping guidelines developed for internal use; inventoried all horticulture assets to plan improvements (see above).
8.1.2	Number of Rain Gardens Installed Annually	2019 – 4 2020 – 2 2021 – 4 2022 – 6	2023 - 4	This data shows the number of rain gardens that have been installed in the public and private realms. These installations occurred through the development process or as part of our capital works program.

8.1.3	Number of People Reached through Social Media and Web Annually	2020 - 3,407 2021 – 5,560 2022 – 4,797	2023: 10,349	In 2023: 1,096 (Wildlife Advisory Mailouts only) Social Media Posts: 20
8.1.3	Number of People Reached through Events Annually	2020 – 315 2021 – 490 2022- 1,229	2023 – 3,034	Through events, popups and outreach.
8.1.4	Number of Recommendations Implemented from the Updated Standards	2020 - 0	TBD	Draft standards have been developed but have not been formalized into bylaws; improved monitoring and updated best management practices are being implemented at large development sites when possible.
8.2.1	Percent of Canopy Cover Annually	1999 – 61.8% 2018 - 55.6%	2022 – 58%	Canopy coverage data to be measured every 5 years – last updated in 2020. Updated canopy cover estimates from the Urban Forest Management Strategy (2022).
8.2.1	Number of Trees Removed Annually	2020- 130 2021 – 103 2022 – 296	2023 - 303	This data shows the number of trees the City has removed for capital and operational purposes on public property. The bulk of these trees were removed from greenbelts, road allowances and parks in response to service requests and them being identified as hazards. Large multi-year capital projects are included in this category.
8.2.1	Number of Trees Planted Annually	2020 – 487 2022 - 620	2023 - 1118	This data shows the number of trees the City has planted for capital and operational purposes on public property. It includes street trees and urban forest enhancement and restoration projects.
8.2.1	Number of Urban Forest Management Recommendations Implemented	2020 – 0	2023 – 4 Actions implemented.	
8.2.2	Development of a Natural Asset Policy	2021 – 0%	2023 – 100%	

8.2.2	Development of a Natural Asset Inventory	2021 – 0%	2023 – 100%	

Organization Wide

Building a climate resilient and carbon neutral community requires unified actions that span all City processes. Climate change planning will not be successful if done in isolation, and therefore, requires embedded principles in all departments, projects, initiatives, plans, and policies. Port Moody has made progress on embedding low carbon resilience in City processes such as integrating climate alignment into the budgeting process, adhering to sustainable purchasing principles, and implementing the sustainable events policy. Staff anticipate that as many of the foundational actions from the CAP (e.g., low carbon resilience policy) are implemented that further resilience and GHG reductions will be realized in future years.

Goal(s) 6.1
Embed an LCR climate lens into City processes.

Plan Label And Number	Description	Start Date	End Date	Status	Progress	Tags
Actions 6.1.1	**Integrate Climate Budgets** (PHASE 1) Integrate climate budgets in the municipal budget process.	Apr 01, 2021	Dec 31, 2022	Completed	Progress 100%	Phase One Actions
Actions 6.1.2	**Low Carbon Resilience Policy** (PHASE 1) Develop policy and procedures to embed climate mitigation and adaptation considerations throughout day-to-day City business.	Jul 05, 2021	Nov 30, 2029	On Track	Progress 13%	Phase One Actions

Progress of Key Performance Indicators

Linked Action	KPI Description	Baseline	Update	Notes
6.1.1	Number of Climate Action Flags on New Capital budgets	2021 – 0 2022 – 69	2023 – 85	Number of projects identified as climate action projects in the 5-year Financial Plan.
6.1.1	Number of new funding requirements that are climate action plan related	2020 – 0 2021 – 8 2022 - 5	2023 – 5	In 2022, Council re-instated an ongoing annual $50,000 transfer from general revenue into a climate action reserve.
6.1.2	Number of new city policies, bylaws, plans, strategies etc. developed that include an LCR Lens.	2021 – 0 2022 – 1	2023 - 6	Natural Asset Management Plan, Urban Forest Management Plan, Tri-Cities Zero Emission Mobility Plan, Fleet Strategy and Zoning Bylaw Housekeeping Bylaw Amendments all completed in 2023.

Next Steps

Staff will continue to track and monitor implementation of climate actions, trends of key performance indicators, and progress towards achieving climate goals and targets regularly. This information along with other updates and information will continue to be made available each year. Key information from this annual update will be shared through the City's dedicated climate action web page. Near the end of 2024 staff will begin to work on updating the Climate Action Plan for 2025, presenting an approach for Council consideration to update key climate action information (e.g., emissions inventories, carbon neutral modelling, streamline key performance indicators and revisit broad strategies and goals) to ensure that the City's climate action programs remain in line with best practices, the latest technology, new information, is flexible, and ensures transparency and accountability.