



# City of Port Moody

## Report/Recommendation to Council

Date: October 24, 2022  
Submitted by: Climate Action Committee  
Subject: 2022 Annual Report – Climate Action Committee

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### Purpose

To provide a report on the activities of the 2022 Climate Action Committee.

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### Recommended Resolution(s)

**THAT the report dated October 24, 2022 from the Climate Action Committee regarding 2022 Annual Report – Climate Action Committee be received for information;**

**AND THAT the 2023 Climate Action Committee be asked to review this report and bring forward its annual Work Plan in spring 2023.**

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### Committee Mandate

The mandate of the Climate Action Committee is to provide advice and recommendations in the following areas:

- inform and advise Council on climate action matters within the Council Committee System Policy;
- existing or proposed bylaws, policies, initiatives, pilot projects, and activities the City could participate in to promote energy efficiency, the reduction of GHG emissions, and achieve carbon neutrality;
- mitigation and adaptation to climate change;
- any other matters referred by Council; and
- other areas identified by the Committee for approval by Council.

## Meetings and Attendance

The Climate Action Committee met monthly between January and October 2022, with the exceptions of July, due to lack of quorum, and August, due to summer break. In November 2022 several advisory bodies of council, including the Climate Action Committee, were placed on pause pending Council's review of the Strategic Plan.

Councillor Amy Lubik was appointed as Chair and Councillor Diana Dilworth as Vice-Chair in December 2021. Between January and October 2022, the following members served on the Committee:

- Aline Bennett;
- Tugce Conger (from February 2022);
- Eric Hedekar (from February 2022);
- Helen Howes;
- Adam Janis;
- Poopeh Morakkabati;
- Aidan Trerise (to March 2022); and
- Derek Wilson.

Laura Sampliner, Senior Sustainability and Energy Coordinator, served as the primary staff liaison to the Climate Action Committee. Mary De Paoli, Manager of Policy Planning, served as the alternate staff liaison to the Committee until August 2022. Arzan Balsara, Sustainability and Energy Coordinator, served as the alternate staff liaison to the Committee from September to October 2022. Jennifer Mills served as the Committee Coordinator.

## Key Activities and Work Plan

The 2022 Climate Action Committee Work Plan was approved by Council on March 22, 2022. The following are the key activities that were undertaken in 2022 by the Climate Action Committee (a list of resolutions made in 2022, along with the status of the resolutions, is included in **Attachment 1**):

### City of Coquitlam Low Carbon Facilities

The committee received a presentation from Kevan Cornes, Manager of Facilities, City of Coquitlam on the City Centre and Poirier Sport and Leisure Centre (PSLC) Thermenex System. The PSLC redevelopment sought to reclaim the heat produced from the ice plant, and other areas, and distribute the rejected heat to warm the pool. The Thermenex system connects the mechanical systems in the buildings, including heat pumps, condensing units, and boilers, into the common water loop to allow heating and cooling to be distributed throughout the buildings by all connected mechanical systems. The heat generated from the three ice rinks at PSLC is enough to heat the PSLC pool and Coquitlam Public Library Poirier Branch (CBLPB). The implementation of the Thermenex system has helped the City of Coquitlam achieve a 54% reduction in greenhouse gas emissions.

### Health Implications of Natural Gas

The committee received a presentation from Dr. Chad Lund, a BC Physician on the topic of Methane Gas Potential Health Implications, including information about the following topics:

- precautionary principles;
- sustainable development;
- methane gas production and uses and the associated risks to human and environmental health;
- politics and policy related to methane gas;
- methane gas industry influence; and
- challenges with obtaining data related to methane gas health risks.

The Committee discussed the information presented and noted that the City could offer workshops and home assessments for residents to help encourage the transition from natural gas systems.

### Q1 2022 Climate Action Implementation Update

The Senior Sustainability and Energy Coordinator gave a presentation to the Committee on the Climate Action Plan (CAP) Implementation Update. The CAP implementation is currently on track and is in Phase 1 with 23 of the 54 actions underway. The focus for Q1 2022 was on project management and implementation to ensure the projects are successful and that the data being monitored is appropriate for determining if the projects are successful. There are numerous City departments leading different projects related to the CAP and the work is reported through an online project management tool. The actions for Phase 2 implementation are being planned and will focus on actions with the greatest impact to GHG reductions and resiliency to achieve emissions reductions and adaptive capacity before 2030. CAP Implementation reports are provided annually to Council and include updates about key performance indicators, community emissions, and progress towards climate action targets.

### Update on Port Moody's Extreme Weather Response Plan

The Committee received a presentation from the Sustainability and Energy Coordinator on the Extreme Weather Resilience Plan (EWRP) being developed. The City has prioritized the EWRP to address the increase in climate change and the associated increases in frequency and intensity of extreme weather events. The EWRP will provide a strategy with short-, medium and long-term actions to help reduce the risks and vulnerabilities associated with extreme weather events on City facilities and infrastructure while not increasing greenhouse gas (GHG) emissions. The EWRP incorporates vulnerable populations in the city through an inclusivity and equity lens to ensure that any recommended actions have a way of reaching all members of the population and reduce barriers to those identified as most vulnerable.

### Climate Resilient Landscaping Working Group

The Chair provided information about the Environmental Protection Committee Green Infrastructure Working Group, noting that the Working Group is seeking a member from the Climate Action Committee to join, and encouraged any interested member to volunteer for the Working Group.

### Sustainable Building Practice Subcommittee Research

The sustainable building practice subcommittee was tasked with researching embodied emissions, environmental, and other sustainability outcomes in concrete construction versus mass timber construction and to share recommendations for reducing embodied emissions of buildings with Council. The Sustainable Building Practice Subcommittee recommendations were endorsed by Council.

### Port Moody Climate Resilient Landscaping Strategies

The City's Environmental Coordinator gave a presentation on Climate Resilient Landscaping Standards and noted that the overall goal of landscaping standards is to help the city develop a strategy to adapt to different climate scenarios. The standards are used internally by the horticulture team but are also available to developers. Landscape standards provide helpful schematics to support staff in designing horticulture beds and landscaped areas. Planting pallets for different climate scenarios and landscape areas have been developed and full plant lists for every typology are available to swap species if necessary.

### Climate Ready Homes and Buildings Plan Survey Results

The committee received a presentation from the Senior Sustainability and Energy Coordinator on the draft Climate Ready Homes and Buildings Plan survey results. The Climate Ready Homes and Buildings Plan will outline specific actions for the City to undertake to help new and existing buildings reduce greenhouse gas emissions and become more resilient. The homeowners and business surveys ran from October 2021 to January 2022. The feedback received from the survey helps create a program that is aligned with residents needs and motivations. Business and residential survey findings include:

- the motivation to manage climate risks has increased after the extreme weather events experienced in 2021;
- the top themes for the most effective piece of policy to achieve climate targets and affordability included: cost barriers, accessing rebates, and evening out cost sensitivities for home owners;
- the business survey indicated a concern for the next generation as a motivational factor for taking action in their business;
- the surveys indicated a strong need for policies to achieve targets and ensuring the policies are affordable and accessible; and
- the theme of equity arose from the feedback and the City is trying to embed it into policy to ensure equal access for all members of the community, to ensure homes are climate ready, and to recognize the health and safety issues related to climate risk.

### Hey Neighbour Collective

The Committee received a presentation from Stacy Barter, the Executive Director for Building Resilient Neighbourhoods at the Hey Neighbour Collective. Ms. Barter noted that the Connect and Prepare program is an initiative that aims to strengthen community resilience by creating connections between neighbours to improve emergency preparedness and social connectedness. The program is focused on strengthening neighbour-to-neighbour social connectedness in multi-unit housings where social isolation and loneliness are typically experienced more. Improved social networks between neighbours allows groups to plan and prepare together and become more resilient. The program was developed to create long-term resilience and help address the increase in shocks and stresses in communities, such as heat domes, floods, and food and financial insecurities; those living in multi-unit high-rises typically experience lower levels of social connectedness with neighbours than other living types. Ms. Barter noted that the Hey Neighbour Collective is currently working with the Cities of Victoria, New Westminster, and North Vancouver and is available to implement the Program in Port Moody.

### Transportation Assessments in New Developments Update

The Committee received a presentation from Geoffrey Keyworth, the City's Transportation Engineer on Transportation Assessments in New Developments. The presentation covered information such as an introduction and background on the Master Transportation Plan (MTP) targets for transportation, how change will happen with new developments, insignificant or absent MTP targets in development-related transportation, how transportation demand can be comprehensively addressed, an overview of benefits and limitations of an enhanced transportation impact assessment approach and goals-based assessment approach, and next steps.

### Parks Master Plan Committee Discussion

The City's Senior Sustainability and Energy Coordinator noted that the Rocky Point Park and Old Orchard Park Parks Master Plan updates are currently undergoing engagement with Civic Committees and the public. The presentation and additional information from a workshop on the Plans was circulated to Committee members. The Urban Forest Management Strategy and Tree Protection Bylaw were also available for review. Information from the Tree Protection Bylaw workshop was circulated to Committee members.

### Building Community Connections Subcommittee

Following Ms. Barter's presentation and committee discussion, the Climate Action Committee formed The Chair noted that a working group could be formed the Climate Outreach Working Group to generate ideas for outreach and education efforts about greenhouse gas mitigation efforts and their relationship with extreme weather events.

### Climate Outreach Subcommittee Update

The Climate Action Committee Climate Outreach Subcommittee provided an update on subcommittee work thus far. Recent meetings of the Subcommittee involved discussion on:

- circumstances for messaging, including emergencies for the general population, strata and multi-family, and vulnerable populations, and adaptation and mitigation for homeowners, strata, and general populations
- potential areas for outreach have been identified, including social media, physical areas of the city, local businesses, and community centre bulletin boards.

Following the update, the Committee provided suggestions for outreach to the subcommittee members.

### Update on Development of an Urban Forest Management Strategy

The City's Project Manager gave a presentation to the Committee on the Urban Forest Management Strategy. The lead consultant for the Urban Forest Management Strategy is Diamondhead Consulting and work began in November 2021. The Strategy is broken down into four tasks and public engagement efforts include the launch of the project webpage and two pop-up park events with activities to engage the public and gain feedback. The second public engagement session will include online stakeholder workshops and is scheduled to take place in late 2022. The public engagement efforts will use the project website and Engage Port Moody and the pop-up park events are scheduled to be held at Rocky Point Park and Bert Flinn Park. The Tree Protection Bylaw update will be integrated into the Strategy and lead by the Planning Department. The Strategy will:

- review the current condition of the urban forest; inform the City about the public's perception of the value of the urban forest;
- provide guidance for other regulatory policies, such as the Tree Protection Bylaw;
- provide guidelines for risk management and hazard abatement through connection to the Community Wildfire Protection Plan;
- guide canopy targets for redevelopment scenarios; provide a better understanding of land use in the City; and
- and guide tree planting planning efforts.

### Community Wildfire Protection Plan Update

The City's Deputy Fire Chief Community Safety, Training, and Emergency Management provided an update on the Community Wildfire Protection Plan (CWPP), referencing ongoing approaches for fuel treatment, community programs such as neighbourhood blitzes, capacity and funding for outreach, and training. The Deputy Fire Chief Community Safety, Training, and Emergency Management also noted that Port Moody had not yet allocated funds in the budget towards fuel treatment measures and that a detailed plan of fuel treatment for the prescription areas may be presented to Council for approval at the end of 2022 or early in 2023.

It was also noted that Port Moody will experience hotter, dryer summers with an increase in pests that will impact tree life cycles over time. When planning reforestation of an area, staff consider which trees and plants and how and where to plant them based on how they will thrive in future climate scenarios and Metro Vancouver has created helpful tools such as the Maximizing Climate Adaptation Benefits with Trees design guidebook which incorporates fire risk.

### Sustainability Report Card Update

The City's Senior Sustainability and Energy Coordinator gave an update on the revised Sustainability Report Card, including information about Report Card evolution, Report Card approach, Report Card process, updated Report Card highlights, updated Report Card sample, and next steps. In response to questions from the Committee, the Senior Sustainability and Energy Coordinator noted that the previous Report Card included a weighted score per pillar, which was removed in the update and that questions are now listed in order of importance and questions higher on the list award more points.

### Q2 2022 Climate Action Implementation Update

The Committee received a presentation from the City's Senior Sustainability and Energy Coordinator on Climate Action Plan Implementation Update. During the second quarter, the main focus has been on project management and implementation, monthly updates, budgeting for the year ahead, planning for Phase Two implementation, and integration of other plans currently underway. Implementation progress in Q2 was at 45% complete overall.

### Climate Ready Homes and Buildings Plan Update

The Senior Sustainability and Energy Coordinator gave a presentation on the Climate Ready Homes and Buildings Plan. The project is part of the Climate Action Plan and a resident and business survey were completed to gather feedback on priorities and climate ready opportunities for buildings. A stakeholder workshop was held with representatives from the development community, Fraser Health, and others integral to the development of the plan. Goals for the Plan include low carbon resilience and equity (reducing greenhouse gas emissions); adaptation and resilience (reducing negative impacts from climate hazards); and embedding equity. Proposed policy actions for new and existing buildings include sections for regulation, incentivization, education, and advocacy.

### Health Authority Community Health and Climate Change Mapping

Dr. Emily Newhouse, a Medical Health Officer from Fraser Health gave a presentation to the Committee on Climate Vulnerability Mapping and Preparation. Dr. Newhouse provided an overview of climate vulnerability mapping completed by the health authorities, including analysis of direct impacts of climate change on human health, such as severe weather, air pollution, allergens, impacts to water quality and food supplies, and changes in vector ecology. Funding from Health Canada was received by Vancouver Coastal Health and Fraser Health for the HealthAdapt project to map climate change vulnerability in the region on a local scale. Sensitivity in mapping focused on ages at both ends of the spectrum (under the age of five and over the age of 65), as well as a range of pre-existing conditions including cardiovascular disease, pregnancy, and others. Vancouver Coastal Health and Fraser Health are interested in receiving feedback from communities and partners related to information and resources needed and how to best work together to combat climate change.

### ZEBx Introduction and Information on Energy Efficient Low Carbon Buildings

Mariko Michasiw, the Program Manager, B2E – Zero Emissions Building Exchange (ZEBx) gave a presentation to the Committee on an introduction to ZEBx and zero emissions buildings. This included the purpose and benefits of becoming a ZEBx member. Ms. Michasiw also noted that B2E is Canada's first building electrification coalition, based in BC and has developed a number of resources to demonstrate that low carbon can be achieved without additional costs.

The Committee noted that more investigation is needed, including review of the BC Energy Step Code, prior to making any recommendations to Council regarding becoming a ZEBx member.

### Update on Port Moody Facility Climate Audits

The Committee received a presentation from the City's Sustainability and Energy Coordinator on Civic Facilities Greenhouse Gas (GHG) Planning and Monitoring, including information about background, grants, building monitoring and climate audit project phases, PUMA benchmarking, and next steps. Of note, most the City's GHG emissions from facilities are created by the Recreation Complex due to the size of the facility and the energy used for the ice rinks.

### Update on Port Moody Coastal Flood Management Strategy

Due to cancellation of the November 2022 meeting, this item was not completed. Staff recommend that this item be considered for the 2023 committee work plan.

### Flood Prevention Planning/Integrated Stormwater Planning

Due to cancellation of the November 2022 meeting, this item was not completed. Staff recommend that this item be considered for the 2023 committee work plan.

### Climate Action Award

The Committee reviewed the 2022 Climate Action Award nominations in September and did not recommend an award recipient for 2022.

### Q3 2022 Climate Action Implementation Update

The Senior Sustainability and Energy Coordinator gave a presentation on Q3 2022 Climate Action implementation. The third quarter is focused on project management and implementation, budgeting for upcoming work in 2023, planning for further implementation and integration of other plans, and ongoing reporting considerations. Implementation progress in Q3 was at 47% complete overall.

### Official Community Plan Climate Lens Update

The Committee received a presentation from Dr. Alison Shaw, Executive Director of Action on Climate Team (ACT) at Simon Fraser University on the importance of Official Community Plans (OCP) in low carbon resilience (LCR). Notably, Dr. Shaw explained that LCR provides forecasting for complete, walkable, low carbon, resilient communities that can be included in Port Moody's OCP. Following Dr. Shaw's presentation, the City's Policy Planner Jess Daniels presented on the City's OCP Update process. Ms. Daniels noted the community surveys and dialogues, project timelines, and opportunities for committee participation.



### Phase Two Climate Action Implementation Planning

The Senior Sustainability and Energy Coordinator gave a presentation on implementation planning for the Phase Two Climate Action Implementation Strategy, and informed that an additional 45 actions would be initiated between 2023 and 2024, targeted at GHG reductions and increasing climate resilience.

### Outstanding Matters

The following items were not completed as anticipated through the 2022 Climate Action Committee work plan due to meeting cancellations. Staff recommend that these items be considered for the 2023 committee work plan:

- Update on Port Moody Coastal Flood Management Strategy; and
- Flood Prevention Planning/Integrated Stormwater Planning.

### Suggested Focus Areas for Next Year

Subject to Council's direction, the following focus areas should be included in the Committee's Work Plan for 2023:

- Update on Port Moody Coastal Flood Management Strategy;
- Flood Prevention Planning/Integrated Stormwater Planning;
- Quarterly climate action implementation updates;
- Climate action key performance indicator selection;
- Energy Step Code update; and
- Advocate for Upgrades to School Air Conditioning.

### Attachment(s)

1. 2022 Climate Action Committee Resolutions.

### Report Authors

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## Report Approval Details

Document Title:	2022 Annual Report – Climate Action Committee.docx
Attachments:	- Attachment 1 - 2022 Climate Action Committee Resolutions.pdf
Final Approval Date:	Jan 16, 2023

This report and all of its attachments were approved and signed as outlined below:

Jennifer Mills, Legislative Services Advisor - Jan 13, 2023 - 9:51 AM

Stephanie Lam, City Clerk and Manager of Legislative Services - Jan 13, 2023 - 11:33 AM

Angie Parnell, General Manager of Corporate Services - Jan 15, 2023 - 9:30 PM

Lindsay Todd, Acting Manager of Communications and Engagement - Jan 16, 2023 - 9:34 AM

Paul Rockwood, General Manager of Finance and Technology - Jan 16, 2023 - 9:40 AM

Tim Savoie, City Manager - Jan 16, 2023 - 11:23 AM