



City of Port Moody

Agenda

Climate Action Committee

Electronic Meeting via Zoom

Monday, May 31, 2021

Commencing at 7:00pm

1. Call to Order

2. Adoption of Minutes

Minutes

Pages 3-8

2.1 Recommendation:

THAT the minutes of the Climate Action Committee meeting held on Monday, April 26, 2021 be adopted.

3. Unfinished Business

4. New Business

**One Planet Region
and One Planet
Saanich**

4.1 Presentation: Cora Hallsworth, Senior Associate, One Earth, and Manager of Municipal Programs, BCIT Centre for Ecocities, and Rebecca Newlove, Manager of Sustainability, District of Saanich:

Links:

- One Planet Region: <https://oneplanetconversations.ca/>
- One Planet Saanich: <https://www.oneplanetsaanich.org/>

Fire Smart

4.2 Presentation: Kirk Heaven, Deputy Fire Chief Community Safety, Training, and Emergency Management, and Jeff Scallion, Lieutenant, Community Outreach and Life Safety, Port Moody Fire Rescue

Link:

- Fire and Home Safety: <https://www.portmoody.ca/en/city-services/fire-and-home-safety.aspx>

**Energy Step Code
Update**

4.3 Presentation: Laura Sampliner, Sustainability and Energy Coordinator

5. Information

Staff Updates

5.1

**Sustainable Building
Practices
Subcommittee**

5.2 Attachment: Sustainable Building Practices Subcommittee,
Minutes, May 6, 2021
File: 01-0360-20-55-01

Pages 9-11

6. Adjournment



City of Port Moody

Minutes

Climate Action Committee

Minutes of the meeting of the Climate Action Committee held on Monday, April 26, 2021 via Zoom.

Present

Councillor Meghan Lahti, Chair
 Elaine Golds (arrived at 7:06pm)
 Helen Howes
 Adam Janis
 Mike Kasuya
 Poopeh Morakkabati
 Aidan Trerise
 Derek Wilson

Absent

Councillor Amy Lubik, Vice-Chair
 Shelley Moore (Regrets)

In Attendance

Jennifer Mills – Committee Coordinator
 Laura Sampliner – Sustainability and Energy Coordinator
 Val Tepes – Manager of Facilities

1. Call to Order

The Chair called the meeting to order at 7:01pm.

2. Adoption of Minutes

Minutes

2.1 CAC21/011

Moved, seconded, and CARRIED

THAT the minutes of the Climate Action Committee meeting held on Monday, March 22, 2021 be adopted.

3. Unfinished Business

4. New Business

**Civic Infrastructure
Upgrades**

4.1 Presentation: Val Tepes, Manager of Facilities

The Manager of Facilities gave a presentation on Facilities Department Climate Action Impact Projects and the following was noted:

- the City has undertaken energy savings projects at City-owned facilities through the Civic Facilities Renewal Project, including the Public Library, Recreation Complex, PoMo Arts Centre, and City Hall, as well as boiler replacement and hot water tank replacements at Westhill pool, and a hot water tank replacement Rocky Point pool;
- the facilities completed through the Civic Facilities Renewal Project have extended the buildings' service life and improved overall building performance;
- the Westhill and Rocky Point pool projects received grant funding and significant energy conservation savings have been realized;
- the Recreation Complex chiller replacement project design studies applied WorkSafeBC and Technical Safety BC Standards to perform a dispersion study to determine how wind would disperse released ammonia in the air in the event of a failure; and
- the Public Safety Building Geothermal System Replacement will include a full assessment of the systems current condition and recommendations for a more efficient replacement system.

Staff noted the following in response to Committee members' questions:

- the Public Safety Building Geothermal System Replacement requires a full assessment of the system to determine the current source of sediment and to ensure the future system does not incur the same inefficiencies;
- the Climate Action Implementation Strategy includes an assessment of all civic facilities to review current building performances and to provide baseline data for future reviews; and
- a Consultant, Prism Engineering, has been employed to conduct full energy audits equivalent to ASHRAE Level 2 starting with the Civic Complex, Recreation Complex, and Westhill Community Centre.

The Sustainability and Energy Coordinator gave a presentation on Draft CleanBC Port Moody Municipal Top-Up Rebate Options and the following was noted:

- the available CleanBC program home rebates encourage a reduction in energy use and emissions and aligns with the Climate Action Plan goals and targets;
- the program currently offers municipal top-ups that support energy efficiency and a reduction in greenhouse gases for improvements such as fuel switch air source heat pump, electric service upgrade, fuel switch heat pump water heater, windows and doors, pre-upgrade EnerGuide home evaluation, and contractor SPIFF;
- the municipal top-up program does not require a separate application; eligibility would be determined when applying for the CleanBC program;
- the City would establish the amount of funds for the program and which option of rebate value and then CleanBC would determine the number of rebates available and how they are administered to participants;
- there have been ten homes in Port Moody that have participated in the program and undertaken a switch from fossil fuel heating systems to air source heat pumps;
- the fuel switch air source heat pump and electric service upgrade top-ups are the options with the most opportunity for greenhouse gas reductions and the options that staff recommend to align with the Climate Action Plan targets;
- the Heat Pump Group Purchase Rebate (GPR) is also recommended by staff in addition to the top-up program; the GPR code is only valid for a 90-day period and promotional efforts and timing must be considered to ensure maximum rebates are realized;
- the utilization of local promotion, such as Facebook groups, neighbourhood associations, and community leaders, has been critical in driving success in other municipalities participating in the program; and
- the proposed start date of the program is October 1, 2021 to align with the fall season where homeowners often replace heating systems and the upcoming Climate Action Implementation project to develop a Zero Emissions, Climate Resilient Building Plan for new and existing buildings in Port Moody.

CAC21/012

Moved, seconded, and CARRIED

THAT Council direct staff to design a Port Moody municipal top-up on the CleanBC Better Homes Program and coordinate administration of the municipal top-up as outlined in Option 1 in the memo dated April 13, 2021 from the Community Development – Policy Planning Division.

AND THAT staff be directed to initiate a heat pump group purchase rebate program under the CleanBC Better Homes Program.

AND THAT up to \$25,400 of funding to support the municipal top-up and heat pump group purchase rebate program be forwarded to Finance Committee to determine a funding source.

Climate Action Representative on Transportation Committee

- 4.3 Staff provided an overview of the role of the Climate Action Representative on the Transportation Committee and the Chair requested that any interested members volunteer for the position.

No members volunteered.

This item will be included in the agenda of a future meeting.

Film Subcommittee Update

- 4.4 The Sustainability and Energy Coordinator advised that a Film Subcommittee was formed in 2020 with the intent of developing film nights with discussion panels for education and outreach related to climate action in Port Moody, and requested feedback from the Committee regarding reforming a subcommittee.

The Committee agreed that this item could be undertaken by the entire Committee and the formation of a subcommittee can be addressed when necessary.

5. Information

Staff Updates

- 5.1 The Sustainability and Energy Coordinator advised that the request for Phase One Climate Action Plan Implementation is scheduled for consideration in the Regular Council Agenda of April 27, 2021 and encouraged Committee members to watch the meeting.

The Chair advised that the Committee report regarding use of the digital billboards for Earth Day and the Digital Billboards City Content Corporate Policy was approved by Council.

**Sustainable Building
Practices
Subcommittee**

- 5.2 Attachments:
- a) Sustainable Building Practices Subcommittee, Draft Terms of Reference
 - b) Sustainable Building Practices Subcommittee, Minutes, March 25, 2021
 - c) Sustainable Building Practices Subcommittee, Minutes, April 9, 2021
- File: 01-0360-20-55-01

This item was provided for information only.

6. Adjournment

The Chair adjourned the meeting at 8:26pm.

Councillor Meghan Lahti,
Chair

Jennifer Mills,
Committee Coordinator

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MINUTES
Subcommittee on Sustainable Building Practices
Thursday, 6 May 2021

1. Meeting called to order by Adam at 6:32 pm. Poopeh, Mike, Meghan, Adam, Laura Sampliner, and Helen attended.
2. Background by Laura Sampliner on municipal work being undertaken by PoMo Planning and Building staff
 - Staff are preliminarily planning to consider lifecycle assessments of construction approaches, learning from others who are working on this, and collaborating with industry stakeholders such as but not limited to City of Vancouver and Provincial office of Mass Timber, UBC, and ZEBx.
 - Staff will focus on establishing a basis for regulation/Building Bylaw/policy revisions. Staff will focus less on regulating the materials used in construction and more on understanding metrics for embodied emissions that projects would be required/encouraged to comply with, leaving the flexibility in design and material choice with the builder to account for site constraints and encourage innovation.
 - Covering many of the same topics but staff focus is mainly on embodied emissions.
 - Staff are staying informed on two major embodied emissions measurement tools --- Athena and Tulley and a new tool called Building Emissions Accounting for Materials (BEAM). These are useful tools but all apply slightly different methodologies and assumptions so projects will need to be consistent is using one tool through the project process.
 - There is no existing industry standard for LCA currently. Staff are intending to explore metrics that would establish what a high versus a low embodied building is defined as, per different archetypes.
 - The work of this subcommittee is extremely valuable for staff to understand current practice, consideration of co-benefits and other factors (beyond embodied emissions such as indoor air quality, safety, aesthetics etc.), collaboration with industry and stakeholders, and important research and background information.
 - Staff suggested the subcommittee connect, when appropriate, with the following groups: Jeremy Caradonna from the Office of Mass Timber Construction, City of Vancouver/ZEBx, UBC, CaGBC, and CFL Vancouver.
 - Another contact is Andrew Lena, Western Archrib Architects, whose firm did work on multiple points on the Evergreen Line - Coquitlam Central station, Inlet Centre, Moody Centre, Burquitlam station, and Lafarge Lake-Douglas station.
3. Review of our Current Work Product
 - Helen did a quick review of our current work product, 3 May 2021 Strawman – Sustainability Criteria – MT vs Concrete + Steel for Laura. We agreed that we had little concrete + steel resource material. Laura stated that our report would be good background to the staff work

4. How to Use our Report

- Could contribute to the Sustainability Report Card
- Could be the basis for Technical Bulletins to developers
- Could be a Backgrounder for buyers who are comparing MT and concrete + steel homes
- Could provide talking points for Councillors

5. Discussion of # Case Studies vs. Scheduling Experts

- Preference for inviting experts rather than reviewing case studies – Laura would do the initial contact
- Re: case studies – choose one Highrise; one mid-low rise and one specialty application
- Laura could use the following message when she contacts our small list of experts:

“The purpose of this email is to invite you to speak with Port Moody’s Subcommittee on Sustainable Building Practices. The members of this subcommittee are members of Port Moody’s Climate Action Committee and were charged by Council to investigate the environmental, economic, public safety, and affordability issues related to mass timber construction versus concrete/steel construction to provide direction on the most sustainable building practices available.

To date, they have been engaged in literature and case study reviews and have developed some questions that they would like to ask an expert.

Depending on your availability, we would like to schedule these calls over the next month or so and expect that the call would last no longer than 60 minutes. Questions will be sent to you in advance.”

6. At next meeting, Thursday, 27 May at 6:30 pm we would:

- Review new items on the Strawman - Sustainability Criteria table and add any new information that has come available
- Agree on what case studies to review in detail
- Confirm our list of experts
- Discuss how we were going to manage the expert interviews: (1) all together or 2 to 3 people per expert and then share notes, (2) should certain people be interviewing certain experts? (3) does Megan need to be involved on all the interviews? (4) agree on what questions we would ask what experts

7. Meeting adjourned at 7:52 pm