



City of
Peterborough

To: Members of the Peterborough Environmental Advisory Committee

From: Michael Papadacos
Manager, Infrastructure Management Division

Meeting Date: November 17, 2021

Subject: Report PEAC21-028
Climate Initiatives Update

Purpose

A report to provide the PEAC with an update highlighting corporate and community climate initiatives from October to November 2021.

Recommendation

That the PEAC approve the recommendation outlined in Report PEAC21-028 dated November 17, 2021, of the Manager of Infrastructure Management Division, as follows:

That the report be received for information.

Budget and Financial Implications

There are no budgetary or financial implications associated with the recommendation.

Background

The City of Peterborough continues to pursue greenhouse gas (GHG) emission reductions by developing and implementing strategic climate initiatives, along with incorporating resiliency throughout the community and within City operations. The following climate actions highlight new or ongoing projects within Peterborough.

Climate Initiatives Update

Advancing Adaptation Project (AAP)

Participation in the Advancing Adaptation Project is proceeding with staff attending two additional workshops that critically assessed the selected municipal adaptation action (installation of a public rain garden) and developing a preliminary implementation plan. Upon reexamining the original adaptation action through workshop evaluation tools, city staff have decided to reorient the project to create several supporting mechanisms directed to increase the enrollment in the Rain Garden Subsidy Program (RGSP). Four actions are being proposed to boost RGSP participation that includes:

- Create an educational video describing the step-by-step application process and a corresponding video depicting the construction of a rain garden to increase prospective homeowners' understanding of the RGSP.
- Produce an RGSP pamphlet to be distributed to garden centres, landscapers, and other partners to advertise the program.
- Enhance the rain garden subsidy for a limited time to attract more participants for the 2022 season.
- Develop a long-term communication strategy to promote the RGSP in 2022 and beyond to ensure consistent enrollment.

Finally, these actions are anticipated to impact the RGSP more significantly than the sole installation of a public rain garden with educational signage would have achieved.

Curtis Creek Channel Improvements – National Disaster Mitigation Program

The Curtis Creek Channel Improvement Project is advancing with the fish species survey completed along with 60 percent of the geotechnical survey. Notice letters to homeowners adjacent to the creek have been mailed, directing residents to the project webpage to review documents and submit comments for feedback. Lastly, individual consultations with the most impacted property owners are also being planned.

Fire Station 2 – Zero Carbon Building

The pre-application has been accepted by the Federation of Canadian Municipalities and the project team is working on the capital funding application and the project has been registered with the Canadian Green Building Council's Zero-Carbon Building program. Preparation of the site has commenced with the demolition of the Northcrest Arena. As part of mitigating the impact of the demolition some wooden elements are being salvaged to be repurposed for various interior uses. A project update will be presented to PEAC in early 2022.

Home Energy Efficiency Program (HEEP) – Consultant Selected

A consultant has been selected to support city staff in developing the Home Energy Efficiency Program. Dunskey Energy + Climate Advisors (Dunskey) were selected to design the program architecture, create the implementation plan, develop supporting documents, and assist with stakeholder engagement. Dunskey is anticipated to complete its work by September 2022.

In addition to selecting a consultant, city staff attended four FCM workshops to increase knowledge and build the capacity of staff involved in the HEEP with topics to support decision-making for the various elements of program consideration. Examples of topics included underwriting, contractor selection, and program funding models.

Integrated Flood Model (IFM) – National Disaster Mitigation Program

The project team is completing the subcatchment delineation and 2D mesh generation – critical steps in developing the model. Field data collection is now complete and data on rainfall, stream flows and sewer flows will be used to calibrate the model. It is anticipated that a calibrated model will be complete by early 2022. This model will then be used to complete the flood risk assessments for different events, including future climate change scenarios, and to assess and prioritize capital projects identified in the Flood Reduction Master Plan and studies.

The public survey on flooding issues in the community has now closed. Approximately 50 detailed responses were submitted that identified the location and type of flooding that has been observed by residents. This information will be used to inform the project team in their development and validation of the model.

Other Initiatives

The following are completed climate action projects:

- Sustainable IT Total Cost of Ownership Project completed in October 2021
- Environment and Sustainability Webpage Refresh completed in November
- Community Solar Potential Survey Project completed in November

There are no new updates for the following climate initiatives at this time:

- Community Buildings Retrofit (CBR) – Application Initiation
- Community Climate Change Resilience Strategy (CCCRS)
- Municipal Natural Asset Initiative (MNAI) Pilot Project
- Zero Emission Vehicle Infrastructure Project (ZEVIP) – Contract Development

Submitted by,

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