



City of
Peterborough

To: **Members of the Peterborough Environmental Advisory Committee**

From: **Michael Papadacos, Manager of Infrastructure Management Division**

Meeting Date: **April 21, 2021**

Subject: **Report PEAC21-015
Climate Initiatives Update**

Purpose

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

Recommendations

That the PEAC approve the recommendations outlined in Report PEAC21-015 dated April 21, 2021 of the Manager of Infrastructure Management Division, as follows:

- a) That the report be received for information; and,
- b) That the PEAC nominate a representative to participate in feasibility workshops with respect to the Net Zero Energy Performance Facility component of the Fire Station 2 project, subject to project approval by Council.

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 Updates

Fire Station 2 – Zero Carbon Building Proposed

Staff have been considering options to align the City's approach for building new facilities with Council's commitment to Climate Mitigation and Climate Adaptation and is recommending that Fire Station 2 be built following The Canada Green Building Council (CaGBC) Zero Carbon Building Standard (ZCB Standard). The CaGBC launched the Zero Carbon Building Standard to assist the industry's transition to zero carbon. CaGBC's "Making the Case for Building to Zero Carbon" report confirmed that zero carbon buildings are technically feasible and financially viable.

The ZCB Standard is a made-in-Canada framework for both designing and retrofitting buildings to achieve zero carbon. Zero carbon buildings represent the industry's best opportunity for cost-effective emissions reductions that spur innovation in design, building materials and technology. On average, zero carbon buildings can provide a positive financial return over a 25-year life cycle. This financial return will only grow as the cost of carbon rises, while zero carbon buildings also promise to mitigate future costs for utilities and retrofits.

Report CAOFS21-004 Fire Station 2 Location Selection and Project Next Steps included Recommendation b):

That staff be directed to submit an application to the Federation of Canadian Municipalities, Green Municipal Fund for Capital Project New Construction Energy Efficient Facilities to support a target Net Zero Energy Performance Facility and, if successful, a By-law be passed on terms acceptable to the Chief Administrative Officer and in forms acceptable to the City Solicitor authorizing the Mayor and Clerk to enter into a funding and loan agreement.

This Recommendation will be received for a final vote at the City Council meeting on April 26, 2021.

As part of the application to FCM, the project team will be holding two workshops on the Net Zero Energy Performance criteria as part of the required feasibility study. A request has been made for a PEAC representative to participate in these workshops. The workshops will be facilitated by the project consultant in an online format during regular business hours.

Anti-Idling Sign Initiative

To lessen the impact of pollution from vehicle idling on Peterborough's most vulnerable community members, a total of 75 new anti-idling signs have been ordered. The utility locates have been requested and will be taking place in the next 2-4 weeks subject to the locate company's work schedule. Installation will be completed once utility locates are confirmed.

The sign locations have been finalized and target areas around schools, parks, daycares, and the hospital district. These signs will complement existing anti-idling signs already positioned throughout the community. A communication strategy is being planned to support the initiative and increase public awareness of the effects of idling on health and the climate. The installation of the signs is being funded through the Climate Change Donation Fund – a fund made possible by community members' financial contributions. The project is expected to be completed in spring 2021.

“Climate Action at Home” Video Series

In partnership with GreenUP, Peterborough County, and the City, a series of introductory home energy retrofit videos is being produced to educate homeowners on the benefits of undertaking home energy renovations. A total of four videos will be created and shared between the three partners to promote household energy upgrades. The “Climate Action at Home” series is envisioned to complement the City's Home Energy Efficiency Program once launched. The videos are expected to be completed at the end of April.

Climate Change & Sustainability Webpage

The City has launched its Climate Change & Sustainability webpage on ConnectPTBO. The page has received over 200 views since its launch on March 19th. A communication campaign is being planned to expand the web page's reach to engage with more community members around climate action.

Community Climate Change Resilience Strategy (CCCRS)

Work on the CCCRS is currently focused on finalizing the roles and responsibilities of internal corporate stakeholders that align with the identified resiliency actions. Once this process is complete implementation plans will be developed with associated cost and resource impacts.

Green Economy Peterborough (GEP) Organization Founding

The establishment of the new community organization supporting local companies transitioning to low-carbon and sustainable business practices launches on April 22nd. Green Economy Peterborough joins a national network of green economic hubs that targets GHG emissions, waste, and water usage reductions of businesses, institutions,

and not-for-profit organizations. The launch of GEP is anticipated to lower community GHG emissions and help companies reduce operational costs, attract more customers and new staff, and mitigate business risks and expenses related to climate change.

Municipal Natural Asset Initiative (MNAI) Pilot Project

Peterborough is working with the MNAI to develop a preliminary natural asset inventory as a first step towards developing a municipal approach to natural asset management and the services they provide.

The objectives of this project are to establish the foundation natural asset management by:

- better understanding the core municipal services that natural assets provide, or could potentially provide, and risks natural assets may be exposed to,
- identifying opportunities for well-managed natural assets to deliver these services on their own, or as a complement to existing engineered assets, and
- enhancing awareness of green infrastructure and ecosystem services across the local government to better inform planning and management activities.

Sustainable IT Total Cost of Ownership (TCO) Project Commencement

To increase the sustainability of purchased IT products, the City is participating in a program to examine how incorporating a total cost of ownership lens will impact IT procurement. The program is administered by Green Economy Canada and will offer staff the opportunity to evaluate the TCO of potential IT products based on the lifetime cost of a product (design, maintenance, and disposal) to provide a greater understanding of product impact before procurement. The project will begin in April and conclude in September 2021.

Other Initiatives

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

- Community Solar PV Potential Survey project with Fleming College
- Home Energy Efficiency Program application to the Federation of Canadian Municipalities (FCM)
- Stormwater System Model & Flood Risk Mapping Development application through the National Disaster Mitigation Program (NDMP)
- Stormwater Smart Grid Pilot Project application through FCM
- Zero Emission Vehicle Infrastructure Project application with Hydro One

Submitted by,

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