



City of  
**Peterborough**

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

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

**Meeting Date:** January 22, 2020

**Subject:** Report PEAC20-003  
Climate Change Update

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## **Purpose**

A report to recommend that the PEAC establish a subcommittee to review the existing approaches to quantifying greenhouse gas (GHG) emissions for the community sector with the intent of advising staff on meeting proposed targets of 45% GHG reduction from the 2011 baseline by 2030 and net zero by 2050; and, that PEAC consider the need for additional subcommittees to advise on implementation plans for the community focused strategies in the Climate Change Action Plan (CCAP).

## **Recommendation**

That the PEAC approve the recommendation outlined in Report PEAC20-003 dated January 22, 2020 of the Manager of Infrastructure Management Division, as follows:

- a) That the PEAC subcommittee on GHG emission data be established to report back to the Committee and staff on options for gathering community sector GHG emission data and reporting on progress; and
- b) That the PEAC consider establishing subcommittees aligned with themes in the CCAP to advise on continued implementation and acceleration of related actions as needed.

## Budget and Financial Implications

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

## Background

At its meeting of November 20, 2019, the PEAC asked staff to provide an update on actions contained in the CCAP and advise on how subcommittees could be established to work on obtaining/verifying information regarding the CCAP to facilitate implementation plans. At this meeting, the committee discussed the climate change emergency declaration of council and provided advice to staff. The Chair will summarize themes from that discussion and staff will provide a summary of report in progress requested by council to respond to the climate change emergency declaration.

Recognizing ~95% of GHG emissions in the City of Peterborough are generated by the community sector an update on the actions in the Community Action Plan will be provided at the meeting (Section 2 in the attached Community and Corporate Climate Action Plans).

The Community CCAP update report in progress is gathering data from a variety of sources to assess the progress compared to the baseline year (2011) regarding energy and vehicle fuel consumption trends. The methodology that is used in the update is to collect the following information:

- electricity: attained from PDI and analyzed kWh's consumed per sector: residential, commercial, and industrial customers;
- natural gas: collected data from Enbridge which reviewed cubic metres of gas used by industry, commercial/apartment buildings, residential, and large consuming customers;
- propane/heating oil: assumptions used to project fuel usage, with an inverse relationship to natural gas consumption approach taken;
- transportation: obtained the City of Peterborough - Transportation Division's 2016 vehicle-kilometres-driven mode share model to compare against the baseline that identified drivers, passengers, public transit users, cyclists, walkers, and other modes of transportation used to get to a destination.

Gaps in methodology pertain to the following:

- Data obtained by Enbridge consolidated Commercial & Residential Apartments into one category. This limits this report's analysis as to how much the commercial sectors gas usage is and does not provide a complete picture for the residential sector with the omission of apartments from the category;
- Commercial vehicle data was not included in the 2011 and 2018 reports even though commercial fleets comprise 5-10% of all vehicles registered within the City;

- Estimates of the amount of propane and heating oil used by customers is made due to the data not being able to be acquired.

Staff recommends that in parallel to continuing to advance actions in the existing CCAP, a subcommittee on GHG emission data be established to consider the existing approach to the inventory, and consider the extent to which Scope 1 emissions (direct emissions within the geographic city boundary) are being adequately quantified and how actions addressing Scope 3 emissions (indirect emissions resulting from activities within the geographic city boundary) should be considered. Scope 2 emissions relate to indirect emissions from the use of electricity within the geographic city boundary.

Submitted by,

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Attachments:

Appendix A – GPA Climate Change Action Plan