

## REPORT

**REPORT TO:** Chair and Members of the Planning, Public Works and Transportation Committee

**REPORT FROM:** Gabriel Clarke, Manager of Sustainability and Climate Change

**DATE:** June 4, 2018

**REPORT NO.:** PLS-2018-0021

**RE:** Corporate Energy Plan Implementation Report

### RECOMMENDATION:

THAT Report No. PLS-2018-0021, dated June 4th 2018, regarding the Corporate Energy Plan Implementation Report, be received;

AND FURTHER THAT the Corporate Energy Plan Implementation Report, attached under separate cover, be endorsed and distributed throughout the community;

AND FURTHER THAT a copy of the report be forwarded electronically to the Clean Air Partnership (GTA-Clean Air Council), Halton Region, City of Burlington, and the Towns of Oakville and Milton for their information.

### BACKGROUND:

In 2009, the Province of Ontario introduced the Green Energy and Green Economy Act (GEA) to protect the environment and combat climate change.

At the municipal level, the introduction of the Act and the accompanying Regulation 397/11 meant that every municipality in Ontario was mandated with developing an Energy Conservation and Demand Management Plan by July 1<sup>st</sup> 2014.

In response to the Provincial legislation, Town Council approved the [Corporate Energy Plan – Town of Halton Hills](#) in May of 2014. The five year action Plan contains a total of 85 priority, medium and long-term actions aimed at lowering the Town's corporate greenhouse gas emissions and supporting the deployment of renewable energy technologies.

The Corporate Energy Plan was developed using Partners for Climate Protection (PCP) planning framework and involved completing the three step process outlined below:

Step 1: Preferred Future State/Energy Vision: The first step in the corporate energy planning process involved articulating what the plan should seek to accomplish within its lifespan. The Town developed three objectives during this step:

1. Become a national leader in the efficient management of energy;
2. Increase the use of low carbon technologies; and
3. Support the use of renewable energy.

Step 2: Defining the Present State: The second step involved gaining an understanding of where the Town was at with respect to the energy management objectives developed in Step 1. The Town's historical energy consumption patterns were analyzed and existing energy efficiency policies, programs and projects were catalogued and evaluated. The Town also completed energy audits for 7 Town-owned facilities to identify facility-specific energy efficiency measures. These activities provided the background information necessary to develop the following energy efficiency and greenhouse gas reduction targets for the Corporate Energy Plan that were both ambitious yet realistically achievable:

1. 13-17% reduction in energy intensity; and
2. 16-20% reduction in corporate greenhouse gas emissions.

Step 3: Developing Actions: The third step involved identifying, evaluating and selecting the actions required to achieve the Town's energy efficiency and greenhouse gas reduction targets. A total of 85 priority, medium and longer term actions were included in the Corporate Energy Plan which was approved by Council in 2014.

Soon after Council approval, the cross-functional Corporate Energy Management Team (CEMT) was formed to manage the Plan's implementation. The CEMT continues to meet on a quarterly basis to coordinate actions.

In late 2017, the CEMT decided to produce the "80BY50 – Halton Hills' 2018 Energy Report" (attached under separate cover) to both celebrate Council's approval of the internationally-recognized greenhouse gas emissions reduction target (80% reduction by 2050 compared to 1990 levels) and to provide Council and residents with a comprehensive overview of the Town's progress in implementing the Corporate Energy Plan.

## **COMMENTS:**

### **Report Structure:**

The 80BY50 Report outlines the implementation status of the 85 actions contained in the 2014 Halton Hills Corporate Energy Plan. Table 1 below, provides a description of the various sections of the 80BY50 Report.

**Table 1: 80BY50 Report Sections**

Section	Description
Message from the Mayor	Introductory Message
Table of Contents	Quick reference guide
Halton Hills at a Glance	Brief overview of the Town
Report Structure	Outline of the sections of the Report
Background: Energy Planning in Halton Hills	Why and how the Corporate Energy Plan was developed
Corporate Energy Consumption Trends	Historical analysis of the Town's electricity and natural gas consumption trends
Implementation Summary: Overall	Status and analysis of the Plan's 85 actions
Implementation Summary: Priority Actions	Status and analysis of the Plan's 30 priority actions (July 2014 – July 2015)
Implementation Summary: Medium-Term Actions	Status and analysis of the Plan's 39 medium-term actions (July 2015 – July 2017)
Implementation Summary: Long-Term Actions	Status and analysis of the Plan's 16 long-term actions (July 2017 – July 2019)
Next Steps	The future of corporate energy planning in Halton Hills
List of all 85 Actions	A description of each action, the status of each action and relevant comments

### **Corporate Energy Trends – Electricity**

The 80BY50 Report shows that between 2011 and 2015, the Town's total corporate electricity consumption has generally followed an upward trend which is consistent with the significant increase in the total square footage of Town facilities that occurred during this time. However, the consumption of electricity per square foot of floor space has consistently followed a downward trend during this time which demonstrates the positive impact that the Town's energy efficiency measures have had to date.

### **Corporate Energy Trends – Natural Gas**

The 80BY50 Report shows that the Town's total natural gas consumption followed a downward trend between 2011 and 2013 which was followed by an increase in 2014. In 2015, total natural gas consumption resumed its downward trend. 2015 was the second most efficient year since 2011 and came very close to the record set in 2013.

A more detailed description and analysis of the Town's corporate energy consumption trends can be found in Report No. PLS-2017-0016 *2017 Green Energy Act Submission (2015 Data)*.

## **Corporate Energy Plan Implementation Summary:**

Overall, the 80BY50 Report shows that the implementation of the Corporate Energy Plan is largely proceeding as initially planned and is having the desired impact on the Town's corporate energy consumption trends. To date, 51 (or 60%) of the CEP's 85 actions are listed as Implemented and have either been completed or are ongoing, 7 actions (8%) are listed as Under Way and are currently being implemented, 12 actions (15%) are listed as Upcoming because they require additional staffing capacity and will be implemented once the contract Sr. Sustainability Planner and Energy Coordinator position is filled in 2018, 8 actions (9%) are listed as Not Yet Started since no action has been taken to date and 7 actions (8%) are listed as Explored because they have been thoroughly considered but not implemented for the reasons outlined in the "List of all 85 Actions" section of the 80BY50 Report.

## **Future Iterations of the 80BY50 Report:**

The 2018 edition of the 80BY50 Report should be viewed as a work in progress – it will be improved in future editions as the Town's analytical capabilities are enhanced with the hiring of the contract Sr. Sustainability Planner and Energy Coordinator position which is currently being recruited. In addition to accelerating the Corporate Energy Plan's implementation, the additional capacity and expertise that the position will bring to the Town will enable future editions of the 80BY50 Report to include more detailed quantifiable analyses of the energy, financial, and greenhouse gas emissions impacts of the Town's various clean energy initiatives and a broader scope that includes the residential, business and agricultural communities of Halton Hills.

## **RELATIONSHIP TO STRATEGIC PLAN:**

The 80BY50 – Halton Hills' 2018 Energy Report advances and relates directly to the Town's Strategic Plan and its sustainability focus, including these Council priorities

- 5.C) Invest in Green Energy Technologies
- 5.F) Implement the Mayor's Community Energy Plan

## **FINANCIAL IMPACT:**

There is no financial impact associated with this Report.

## **CONSULTATION:**

The Corporate Energy Management Team, composed of Stephen Hamilton - Manager of Facilities, Simone Gourlay – Manager of Purchasing, Bruce Morrison – Deputy Fire Chief, Geoff Cannon – Chief Librarian, Matthew Lynch – Fleet Coordinator, Matthew Roj – Traffic Coordinator, Linda Boyer – Conservation and Demand Management Officer with Halton Hills Hydro, and Dan MacDougall – Associate with Aladaco Consulting (on contract with Halton Hills Hydro) were consulted during the development of the 80BY50 – Halton Hills' 2018 Energy Report.

**PUBLIC ENGAGEMENT:**

There are no public engagement implications associated with this report.

**SUSTAINABILITY IMPLICATIONS:**

The Town is committed to implementing our Community Sustainability Strategy, Imagine Halton Hills. Doing so will lead to a higher quality of life.

The 80BY50 Report advances the Strategy's implementation because it outlines the progress made in implementing the 2014 Corporate Energy Plan. By providing an overview of the implementation status of each of the 85 actions, the 80BY50 Report provides a snapshot of how well Halton Hills is moving towards reaching its low carbon corporate energy vision.

This report supports the Environmental Health, Economic Prosperity, and Social Wellbeing pillars of Sustainability and in summary the alignment of this report with the Community Sustainability Strategy is very good.

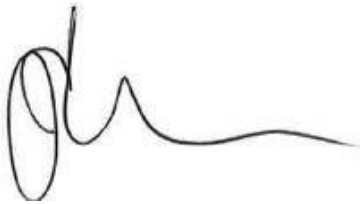
**COMMUNICATIONS:**

The 80BY50 – Halton Hills' 2018 Energy Report will be publicized through paper and electronic distribution. In addition to being posted on the Town's website, the 80BY50 Report will be made available in printed format at Town facilities, Halton Hills Hydro, community events and, where possible, businesses and organizations such as the Chamber of Commerce and the BIAs. A media release and social media will also be used as promotional tools.

**CONCLUSION:**

The 80BY50 – Halton Hills’ 2018 Energy Report was developed to serve the dual purpose of celebrating Council’s November 2017 decision to adopt the internationally-recognized greenhouse gas emissions reduction target and to provide Council and residents with a detailed overview of the progress that the Town has made in implementing the 2014 Corporate Energy Plan. Attached under a separate cover, the current edition of the 80BY50 Report focuses on the Town’s corporate energy efficiency measures.

Reviewed and Approved by,

A handwritten signature in black ink, appearing to be 'John Linhardt', written in a cursive style.

**John Linhardt, Commissioner of Planning and Sustainability**

A handwritten signature in black ink, appearing to be 'Brent Marshall', written in a cursive style.

**Brent Marshall, CAO**