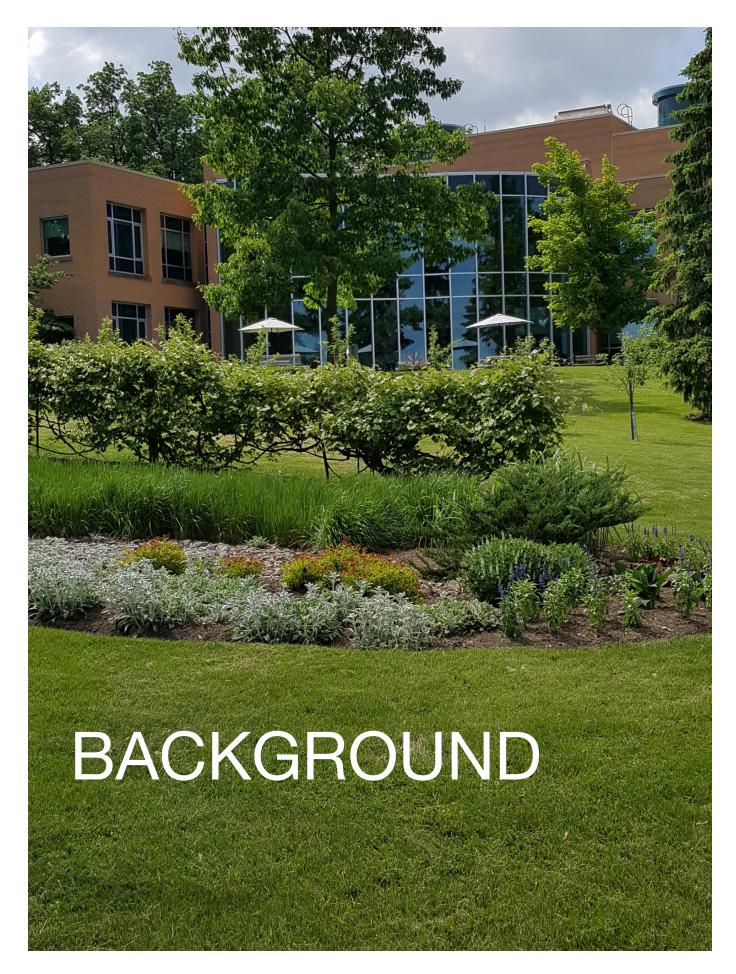
808/50

Halton Hills' 2018 Energy Report

Towards a low carbon community







80BY50 Report Structure

The 80BY50 Report outlines the status of the 85 actions contained in the 2014 Halton Hills Corporate Energy Plan (CEP). The CEP is a five-year action plan that was developed to reduce greenhouse gas (GHG) emissions associated with the Town's operations and was approved by Council in 2014.

Like the plan itself, this report is divided into: priority actions (July 2014-July 2015), medium-term actions (July 2015-July 2017), long-term actions (July 2017-July 2019) and an overall implementation summary. The Report provides a description of each action, the status of each action and relevant comments.

Background - Energy Planning in Halton Hills

In 2009, the Government of Ontario expressed a commitment to reducing the environmental footprint of public-sector buildings when it passed the Green Energy and Green Economy Act. Regulation 397/11 – developed under the Act – required that each Ontario municipality produce a five-year energy conservation and demand management plan by 2014. Halton Hills' Corporate Energy Plan (CEP) – which covers the period from July 2014 to July 2019 – was developed to fulfill this mandate and focuses on reducing the level of GHGs emitted by the Town's operations. The CEP's 85 actions focus on:

- 1. Lowering the Town's natural gas, electricity and vehicle fuel consumption
- 2. Increasing the use of low carbon technologies
- 3. Supporting the use of renewable energy

The CEP was developed using the following three-step process:

1. Defining the Preferred Future State / Vision

Defining a preferred future state / vision is a fundamental first step in corporate energy planning because it enables the organization to define and articulate what it wants the plan to accomplish. The Town achieved this through an extensive engagement process, which enabled the Town to define three primary objectives for the CEP:

- a. Halton Hills is a national leader in the efficient management of energy in its operations
- b. The efficient use of energy is part of the day-to-day activities of Town staff

c. The Town's environmental and financial sustainability are improved through energy management initiatives that are practical, affordable, reasonable, educational and enforceable.

2. Defining the Present State

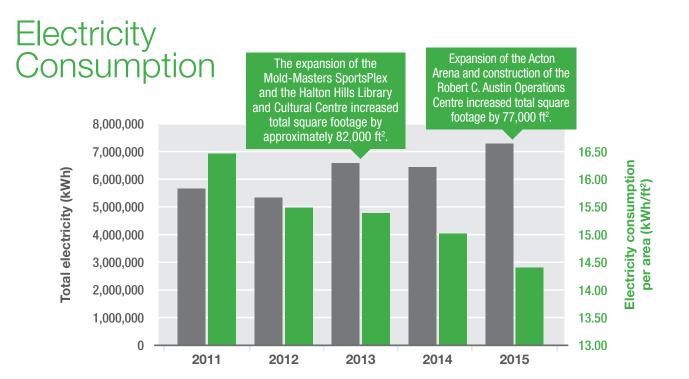
The second step involved understanding where the Town was with respect to energy management. The Town's previous energy efficiency projects were reviewed along with existing plans and policies. Detailed energy audits were also completed for seven Town buildings to uncover specific energy efficiency improvement opportunities for each facility. Finally, the Town's historical energy consumption patterns were analyzed. These steps enabled the Town to understand where it stood with respect to its energy vision and enabled the Town to develop targets for energy efficiency and greenhouse gas emissions that were both ambitious and realistically achievable.

Corporate Energy Plan Ta	rgets	
Energy intensity (kWh/sq. ft)	13-17% reduction	\downarrow
Corporate greenhouse gas emissions	16-20% reduction	\downarrow

3. Developing Actions

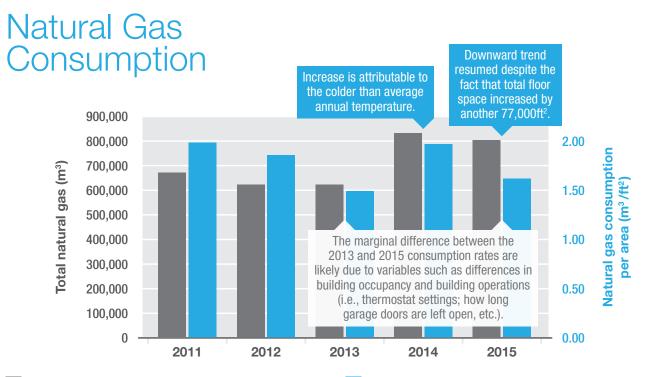
The third and final step in the development of the CEP built on the information produced in the previous steps and culminated in the development of the action plan. Potential actions were evaluated, selected and prioritized. A total of 85 priority, medium term and long term actions were included in the final CEP which was approved by Council in 2014.





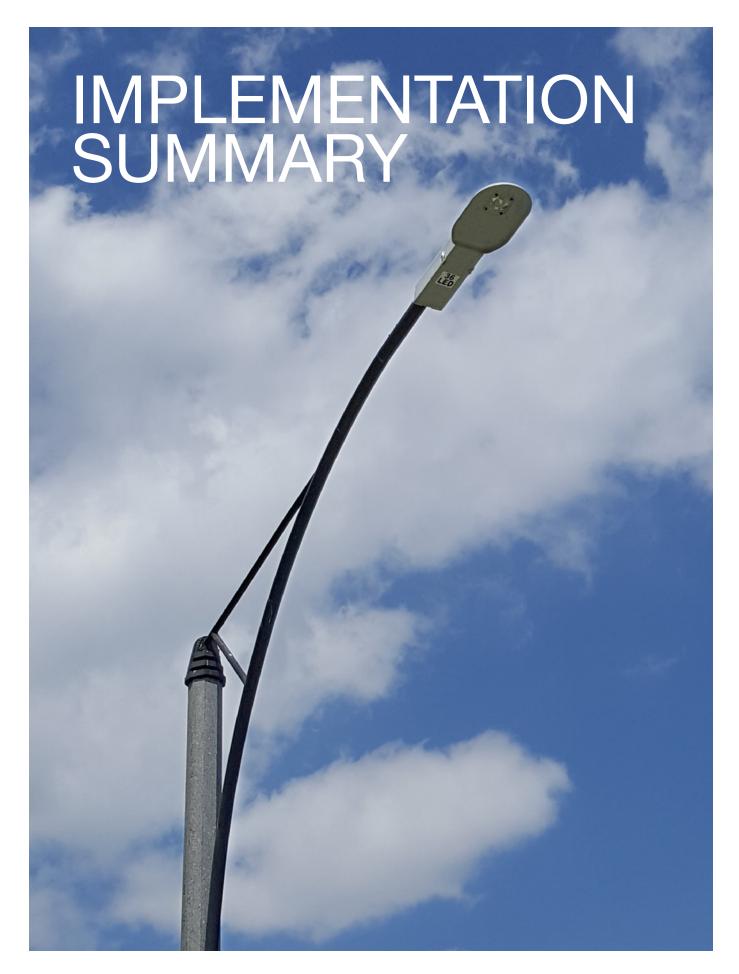
The Town's total electricity consumption has generally followed an upward trend which is consistent with the significant increase in the total square footage of Town facilities that occurred during this time.

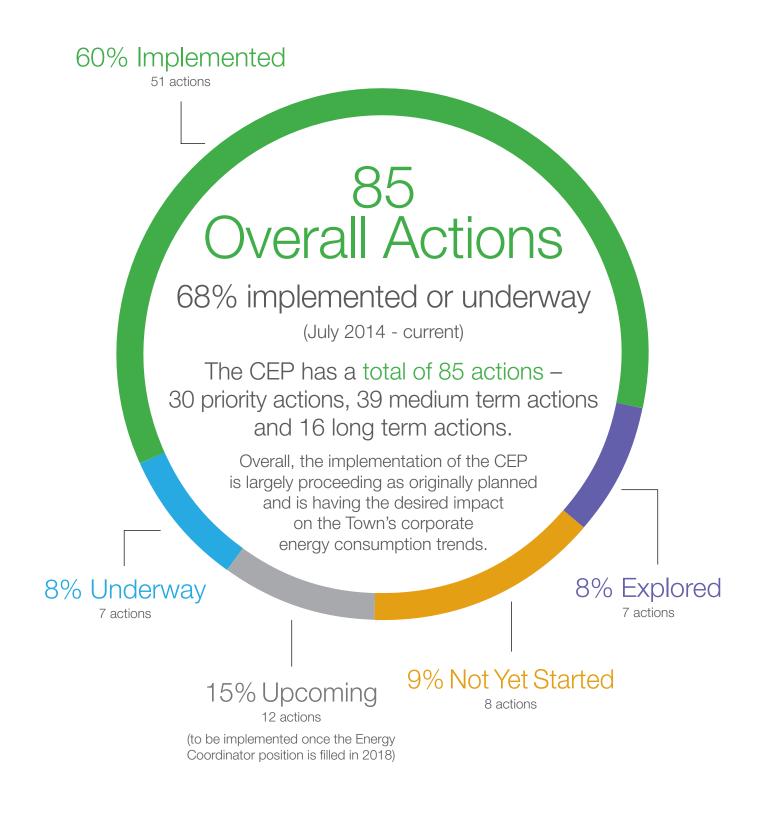
The consumption of electricity per square foot of floor space has consistently followed a downward trend between 2011 and 2015 which demonstrates the positive impact that the Town's energy efficiency measures have had to date.



The Town's total natural gas consumption followed a downward trend between 2011 and 2013. This 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. The annual average outdoor temperatures were very similar for 2013 and 2015 – as were the heating and cooling demands placed on the Town's facilities.





Implemented	Underway	Upcoming	Not Yet Started	Explored
The item has been implemented.	The item is currently being implemented.	The item is ready to be implemented.	No action has been taken to date.	The item has been thoroughly considered.

60% Implemented

18 actions

30 Priority Actions

83% implemented or underway

(July 2014 - July 2015)

These actions were scheduled to be implemented between July 2014 and July 2015. These actions were either "low-hanging fruit" (i.e., low-cost, big-impact actions) or initial steps that would be built upon in the later stages of the CEP's implementation.

23% Underway 7 actions

7% Not Yet Started 2 actions

10% Explored

3 actions

5-year Implementation Timeline

	Priority Actions		Medium Term Actions		Long Term Actions	
Jul	У	July	July	July	July	July
201	4	2015	2016	2017	2018	2019

Priority Action Highlights



Action #1 **Energy Planning**

Formally adopt 5-year corporate targets for energy intensity and GHG emissions.

Note: Integrated into the Mayor's Community Energy Plan.

Status: Implemented



Action #6 **Partnerships**

Continue to foster an excellent relationship with Halton Hills Hydro and Union Gas.

Note: Halton Hills Hydro provides representation on the Town's Staff Sustainability Team and the Corporate Energy Management Team.

Status: Implemented



Action #15 **Energy Efficiency**

Consistently set ice temperatures in arenas to 23°F.

Note: Completed for the new pads at the Acton Arena and the Mold-Masters SportsPlex.

Status: Implemented



Action #18 **Operations**

Develop consistent guidelines and policies for energy management to be followed at all Town facilities.

> **Note:** Standard operating procedure.

Status: Implemented



Action #24 **EMIS**

Investigate options for an **EMIS (Energy Management** Information system) to be used to track and analyze energy use at the building level.

Note: Completed in 2016.

Status: Implemented



Action #28 **Training**

Ensure that all staff responsible for operation and maintenance of Town buildings are appropriately trained.

Note: Energy management is integrated into facility operator training.

Status: Implemented

For details on all 16 actions, refer to page 25.

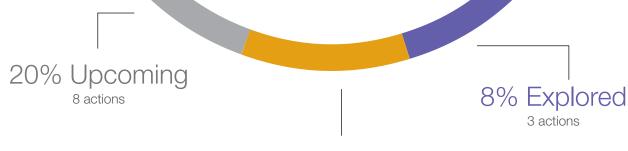
62% Implemented

24 actions

39 Medium Term Actions

(July 2015 - July 2017)

These actions were scheduled to be implemented between July 2015 and July 2017. Of those, 62% have been implemented to date and another 20% are listed as "upcoming" and are ready for implementation once the Senior Sustainability Planner and Energy Coordinator position is filled in 2018.



10% Not Yet Started

4 actions

5-year Implementation Timeline

	Priority Actions		Medium Term Actions		Long Term Actions	
Jι	ıly	July	July	July	July	July
20	14	2015	2016	2017	2018	2019

Medium Term Action Highlights



Action #32 **Energy Planning**

Track and assess progress on Year 1 actions.

Note: Fulfilled through the development and publication of this Report.

Status: Implemented



Action #34 Operations

Develop a process for continually monitoring and applying for available incentives.

Note: Integrated into the regular duties of the Office of Sustainability.

Status: Implemented



Action #43 Operations

Develop a standard requiring that energy efficiency be considered in all building renovations.

Note: Standard operating procedure.

Status: Implemented



Action #52

EMIS

Implement the EMIS chosen in Year 1 to track and analyze energy use at the building level.

Note: Now possible thanks to the EMIS deployment and will be completed once the Energy Coordinator position is filled in 2018.

Status: Upcoming



Action #62

Engagement

Develop and implement a corporate Town-wide energy, greening and sustainability behaviour change program for all staff with the assistance of the Staff Sustainability Team.

Note: Implemented year round via sustainability week, lunch and learns, presentations, info posters, etc.

Status: Implemented



Action #67 **Energy Efficiency**

> Develop a policy for purchasing the right-sized vehicles.

Note: This is implemented as opportunities arise. It is a challenge for a fleet our size due to the fact that several fleet vehicles currently serve multiple functions.

Status: Implemented

For details on all 16 actions, refer to page 25.

80BY50 - Towards a low carbon community

56% Implemented 9 actions 16 Long Term Actions 56% implemented (July 2017 - July 2019) These actions are scheduled to be implemented between July 2017 and July 2019. To date, 56% of these actions have been implemented, 7% have been explored and the remainder will be initiated once the Senior Sustainability Planner and **Energy Coordinator position** is filled in 2018. 25% Upcoming 7% Explored 4 actions 1 actions 12% Not Yet Started

5-year Implementation Timeline

2 actions

		Medium Term Actions		Long Term Actions	
July	July	July	July	July	July
2014	2015	2016	2017	2018	2010

Long Term Action Highlights



Action #70 **Energy Planning**

Re-affirm commitment to targets.

Note: Town Council passed Resolution No. 2017-0197 in November of 2017 to adopt targets that meet or exceed the province's targets when the CEP is updated in 2019: 37% below 1990 levels by 2030, and 80% below 1990 levels by 2050.

Status: Implemented



Action #75 Operations

Continue to implement the corporate **O&M** preventive maintenance program.

> **Note:** Standard operating procedure.

Status: Implemented



Action #85

Engagement

Produce guidelines for selecting the most energy efficient travel option for work related travel.

Note: Halton Hills has been participating in the Smart Commute Program since 2010 and obtained the Platinum Level designation in 2017.

Status: Implemented

For details on all 16 actions, refer to page 25.

Next steps

In 2019, Halton Hills will begin updating the CEP to reflect advances in technologies and the evolving Federal and Provincial directions on energy and climate change. The updated CEP will be built around the new 80BY50 GHG emission reduction targets that were approved by Town Council in November of 2017.



80BY50 - Towards a low carbon community

CORPORATE ENERGY PLAN – LIST OF ALL 85 ACTIONS

30 Priority Actions (July 2014 - July 2015)

Acti	on	Status	Notes
1	Formally adopt five-year corporate targets for energy intensity and GHG emissions.	Implemented	Integrated into the Mayor's Community Energy Plan.
2	Formally adopt long-term corporate GHG emissions targets to align with the community-wide targets.	Implemented	Integrated into the Mayor's Community Energy Plan.
3	Formally adopt interim targets to assist in tracking progress towards 5-year goals.	Explored	This was explored but not implemented during the development of the Mayor's Community Energy Plan.
4	Continue to apply to community awards (e.g., OPA Community Conservation Award and QUEST Community Energy Builder award).	Implemented	Awards are applied for as opportunities arise.
5	Develop a process for updating the CEP in the interim and after five years.	Implemented	The Corporate Energy Plan update is included in the capital budget forecast for 2019.
6	Continue to foster an excellent relationship with Halton Hills Hydro and Union Gas.	Implemented	Halton Hills Hydro provides representation on the Town's Staff Sustainability Team and the Corporate Energy Management Team (CEMT).
7	Assign a dedicated staff person to implement the CEP and track energy initiatives.	Underway	Funding for a contract Energy Coordinator position is included in the 2018 budget.
8	Develop a centralized energy management role within the Town to act as a resource for implementing energy initiatives.	Underway	Funding for a contract Energy Coordinator position is included in the 2018 budget.
9	Implement plumbing – domestic hot water optimization measures recommended by detailed energy audits in applicable Town-owned buildings.	Underway	 The following domestic hot water upgrades have been completed to date: The hot water storage tank for Mold-Masters SportsPlex (Alcott) was replaced in 2017. The boiler for the Town Hall was replaced in 2014. New building expansions at the Halton Hills Library and Cultural Centre and Mold-Masters SportsPlex and the Acton Arena have all included domestic hot water optimization measures.

Implemented	Underway	Upcoming	Not Yet Started	Explored
The item has been implemented.	The item is currently being implemented.	The item is ready to be implemented.	No action has been taken to date.	The item has been thoroughly considered.

30 Priority Actions (July 2014 - July 2015) - continued

Acti	on	Status	Notes
10/	Implement general and specialized heating ventilation and air conditioning optimization measures recommended by detailed energy audits in applicable Town-owned buildings.	Implemented	Replaced of the rooftop cooling unit at the Georgetown Indoor Pool was completed in 2016.
12	Implement IT plug-load measures in all applicable Town-owned buildings.	Explored	This was explored by the CEMT but it was decided that the resources required for this initiative would be more effectively deployed elsewhere.
13/	Implement general and specialized construction air-sealing measures recommended by detailed energy audits in applicable Town-owned buildings.	Underway	 The following air-sealing projects have been completed: District One Fire Station (Acton) in 2016 Specialized construction air-sealing measures will be completed for the Mold-Masters SportsPlex, the Acton Arena and the Town Hall in 2018. All Town buildings will be assessed using thermal cameras in 2018/19
15	Consistently set ice temperatures in arenas to 23°F.	Implemented	Completed for the new pads at the Acton Arena and the Mold-Masters SportsPlex.
16	Develop a formal process for soliciting ideas from O&M staff.	Implemented	Standard operating procedure.
17	Formalize the criteria and metrics for prioritizing energy efficiency projects.	Implemented	Score sheet developed and used when applicable.
18	Develop consistent guidelines and policies for energy management to be followed at all Town facilities.	Implemented	Standard operating procedure.
19	Develop a corporate re-commissioning plan.	Explored	Currently re-commissioning buildings as needed.
20	Implement the comprehensive Corporate Sustainable Building Policy (CSBP).	Implemented	Integrated into the Town's Green Development Standards.
21	Develop energy efficiency processes for new construction to be incorporated into the CSBP.	Implemented	Integrated into the Town's Green Development Standards.

Ac	tion	Status	Notes
22	Include siting of Town buildings as part of the CSBP.	Not Yet Started	This will be explored when the <i>Green</i> Development Standards are updated in 2019.
23	Formalize key performance indicators (KPIs) and tracking mechanisms to monitor and report on progress towards interim and five-year targets.	Not Yet Started	Now possible thanks to the EMIS deployment and will be completed once the Energy Coordinator position is filled in 2018.
24	Investigate options for an energy management information system (EMIS) to be used to track and analyze energy use at the building level.	Implemented	Completed in 2016.
25	Develop a process for evaluating the savings achieved from energy efficiency projects.	Underway	Now possible thanks to the EMIS deployment and will be completed once the Energy Coordinator position is filled in 2018.
26	Make energy management related information available on the Town's Internet and Intranet websites so that staff and the community are aware of Town's energy initiatives.	Underway	Now possible thanks to the EMIS deployment and will be completed once the Energy Coordinator position is filled in 2018.
27	Investigate and develop general training on energy efficiency for all O&M staff.	Implemented	Annual training is provided to O&M staff. Further EMIS training will be provided once the Energy Coordinator position is filled in 2018.
28	Ensure that all staff responsible for operation and maintenance of Town buildings are appropriately trained.	Implemented	Energy management is integrated into facility operator training.
29	Develop a single brand for communicating about energy, greening and sustainability (consider using the new sustainability logo).	Implemented	This includes: quarterly Energy Tip posters, the sustainability newsletter, messaging from the Staff Sustainability Team, the annual Earth Hour event and the annual Sustainability Week event.
30	O&M staff across departments meet quarterly to discuss energy efficiency activities conducted in that quarter.	Implemented	The Corporate Energy Management Team was established in 2015 and meets on a quarterly basis.

Implemented	Underway	Upcoming	Not Yet Started	Explored
The item has been implemented.	The item is currently being implemented.	The item is ready to be implemented.	No action has been taken to date.	The item has been thoroughly considered.

Medium Term Actions (July 2015 - July 2017)

Acti	on	Status	Notes
31	Re-affirm commitment to GHG targets.	Implemented	The commitment was integrated into Council's 2014-2018 Strategic Action Plan (Action 5F: Implement the Mayor's Community Energy Plan).
32	Track and assess progress on interim targets and Year 1 actions.	Implemented	Fulfilled through the development and publication of this Report.
33	Include energy management as an important objective for the Town.	Implemented	Standard operating procedure.
34	Develop a process for continually monitoring available incentives and applying for incentives.	Implemented	Integrated into the regular duties of the Office of Sustainability.
35	Expand the scope of the Staff Sustainability Team to help champion the CEP's implementation and behaviour change programs, and to provide resources and assistance to the dedicated staff person.	Not Yet Started	This will be possible once the Energy Coordinator position is filled in 2018.
36	Develop a mechanism (e.g., a revolving fund) through which savings from energy projects are re-invested in new energy projects.	Explored	Explored by the CEMT. Major challenge: the increasing per-unit cost of utilities.
37	Implement plumbing – domestic hot water insulation measure in all applicable buildings.	Implemented	Pipe insulation was installed at the Mold-Masters SportsPlex in 2014.
38/39	Implement specialized plumbing – variable frequency drive (VFD) measures recommended by detailed energy audits in applicable Town-owned buildings.	Implemented	 VFDs were installed at: The Gellert Community Centre in 2013 The Mold-Masters SportsPlex in 2013 The Acton Arena in 2015 Variable Frequency Drives save the Town money by allowing pumps, fans and other equipment to operate at lower speeds when conditions warrant.

Acti	on	Status	Notes
40	Implement the lighting control measures recommended by detailed energy audits in applicable Town-owned buildings.	Implemented	 Motion controlled occupancy sensors were installed at these locations: The older parking garages at Robert C. Austin Operations Centre in 2016. Pads 3 and 4 at the Mold-Masters SportsPlex Plex in 2013 Pad B at the Acton Arena in 2015 The Halton Hills Public Library and Cultural Centre in 2013 Motion controlled occupancy sensors save the Town money because the lights only turn on when the room or facility is being used.
41	Implement specialized heating ventilation and air conditioning measures recommended by detailed energy audits in applicable buildings.	Explored	This involved exploring the feasibility of installing a heat recovery ventilator and rooftop cooling unite economizers for the Gellert Community Centre pool. Concerns were expressed that reduced exhausting in pool area would worsen existing humidity issues.
42	Implement utility analysis measure in all applicable buildings.	Upcoming	Now possible thanks to the EMIS deployment and will be completed once the Energy Coordinator position if filled in 2018.
43	Develop a standard requiring that energy efficiency be considered in all building renovations.	Implemented	Standard operating procedure.
44	Implement guidelines and policies that were developed in Year 1 for energy management to be followed at all facilities.	Implemented	Standard operating procedure.
45	Develop and implement a corporate O&M preventative maintenance program for remaining buildings.	Implemented	Standard operating procedure.
46	Implement the corporate re-commissioning plan that was developed in Year 1.	Implemented	Re-commissioning of the Town's arena refrigeration systems will be completed in 2018.

Implemented	Underway	Upcoming	Not Yet Started	Explored
The item has been implemented.	The item is currently being implemented.	The item is ready to be implemented.	No action has been taken to date.	The item has been thoroughly considered.

Medium Term Actions (July 2015 - July 2017) - continued

Acti	on	Status	Notes
47	Identify and adopt energy efficient equipment standards to be followed when replacing equipment (e.g., Energy Star).	Implemented	Standard operating procedure.
48	Develop formal guidelines for considering energy at all stages of new building development (e.g., budgeting, procurement, design, construction and change management).	Implemented	Standard operating procedure.
49	Develop a formal commissioning policy based on current practices for new buildings to verify energy performance after construction.	Implemented	All new projects employ a commissioning process.
50	Conduct an assessment of the metering needs of each building.	Implemented	Completed in 2015.
51	Ensure each building is appropriately metered for each utility (e.g., interval meters and submeters).	Implemented	Completed in 2015.
52	Implement the EMIS chosen in Year 1 to track and analyze energy use at the building level.	Upcoming	Now possible thanks to the EMIS deployment and will be completed once the Energy Coordinator position is filled in 2018.
53	Develop a plan for the analysis and use of energy data.	Upcoming	Now possible thanks to the EMIS deployment and will be completed once the Energy Coordinator position is filled in 2018.
54	Allocate sufficient and appropriate staff resources to collect and manage energy data.	Upcoming	Now possible thanks to the EMIS deployment and will be completed once the Energy Coordinator position is filled in 2018.
55	Develop and purchase an energy dashboard (a virtual webpage that displays real-time energy usage stats) that provides operators, management, and the community with appropriate information on energy use utilizing existing resources (e.g., Halton Hills Hydro and Union Gas).	Upcoming	Now possible thanks to the EMIS deployment and will be completed once the Energy Coordinator position is filled in 2018.

Acti	on		Status	Not	es	
56	Develop a proce successful energ	ss for rolling out gy efficiency projects.	Upcoming	and	v possible thanks to the will be completed oncordinator position is fille	e the Energy
57	Indicators (KPIs), public a quarterly each building that of the KPIs (e.g.,	-level Key Performance then produce and make evaluation report for at identifies the status number of energy es implemented and		and	v possible thanks to the will be completed oncordinator position is fille	e the Energy
58	boards and broc projects (e.g., lig	tion tools (e.g., poster thures) for retrofit hting retrofit) and/or ing comfort levels for	Upcoming	and	v possible thanks to the will be completed onco ordinator position is fille	e the Energy
59	process for all st	loyee engagement caff based on the O&M plemented in Year 1.	Not Yet Started	This initiative will be possible once the Energy Coordinator position is filled in 2		
60		ral training on energy ency for O&M staff 1.	Implemented	d Standard operating procedure.		dure.
61	for O&M staff as	ct specific training needed (e.g., and new piece of	Implemented	ed Standard operating procedure.		lure.
62	Town-wide energ	haviour change progran the assistance	Implemented	Implemented throughout the year via sustainability week, lunch and learns, presentations, info posters, etc.		and learns,
63	with O&M staff for	te visits and meetings rom other municipalities tion and tour facilities.	Implemented	Supervisory staff toured a number of Milton, Brampton and Toronto Region Conservation Authority facilities in 2017.		
64	Continue to send conferences for	d O&M staff to information sharing.	Implemented	2018 Mayor's Megawatt Challenge Webinar 2017 Mayor's Megawatt Challenge Forum 2017 PBC Pilot Project Workshop 2016 LAS Workshops Train the Trainer		hallenge Forum orkshop
In	nplemented	Underway	Upcoming		Not Yet Started	Explored
	The item has been	The item is currently being	The item is ready to be		No action has been taken	The item has been thoroughly

Implemented	Underway	Upcoming	Not Yet Started	Explored
The item has been implemented.	The item is currently being implemented.	The item is ready to be implemented.	No action has been taken to date.	The item has been thoroughly considered.

Halton Hills' Energy Report 23

Medium Term Actions (July 2015 - July 2017) - continued

Action		Status	Notes
65	Develop guidelines to operate vehicles in the most energy efficient manner (e.g., anti-idling).	Implemented	 The following have been implemented to date: New heavy-duty vehicles are being ordered with anti-idling technology; Anti-idling discussion added to the annual Winter Training session; A GPS-based fleet management system is planned for 2019 and will produce reports on operator behaviours such as idling.
66	Implement a driver-training program (e.g., Shuttle Challenge).	Not Yet Started	This initiative is dependent on the deployment of the Fleet Management System, which is currently planned for 2019.
67	Develop a policy for purchasing right-sized vehicles.	Implemented	This is implemented as opportunities arise. It is a challenge for a fleet our size due to the fact that several fleet vehicles currently serve multiple functions.
68	Ask contracted procurement advisors how to consider environmental impacts in electricity and natural gas purchasing decisions (e.g., from renewable sources).	Explored	The CEMT supports expanding renewable energy capacity in Halton Hills as opposed to paying a premium for green energy credits.
69	Develop procurement standards for vehicles that include energy efficiency and alternative fuel purchases.	Not yet started	Purchasing will continue to review and adapt policies as the availability of electric vehicles increases.

Long Term Actions (July 2017 - July 2019)

Act	ion	Status	Notes
70	Re-affirm commitment to targets.	Implemented	Town Council passed <i>Resolution 2017-0197</i> in November of 2017 to adopt targets that meet or exceed Ontario's provincial targets when the CEP is updated in 2019: • 37% below 1990 Levels by 2030 • 80% below 1990 levels by 2050.
71	Prepare plan update.	Upcoming	The Corporate Energy Plan update is scheduled for 2019.
72	Track and assess progress on interim targets and Years 2-3 actions.	Not Yet Started	This initiative will be possible once the Energy Coordinator position is filled in 2018.
73	Implement lighting retrofits.	Implemented	 Mold-Masters SportsPlex: interior light upgrade to T5 fluorescents in 2013 Acton Library: exterior and interior light upgrade to LEDs in 2015 Acton Arena: interior light upgrade to LED in 2015 Gellert Community Centre: interior light upgrade to LED in 2015 Robert C. Austin Operations Centre: parking garage and exterior light upgrades to LEDs in 2016 Town Hall parking lot: streetlamp upgrade to solar powered LEDs in 2018 Town Hall: ongoing interior lighting upgrades to LEDs Street Light LED program: Over 99% of the Town's street lights have been upgraded to LEDs to date. The Town is collaborating with Ministry of Transportation to upgrade street lights under their jurisdiction within Halton Hills to LEDs. LED lighting saves the Town money by reducing electricity consumption and maintenance costs.

Implemented	Underway	Upcoming	Not Yet Started	Explored
The item has been implemented.	The item is currently being implemented.	The item is ready to be implemented.	No action has been taken to date.	The item has been thoroughly considered.

Halton Hills' Energy Report 25

Long Term Actions (July 2017 - July 2019) - continued

Acti	on	Status	Notes
74	Continue to implement and update guidelines and policies for energy management to be followed at all facilities.	Implemented	Standard operating procedure.
75	Continue to implement the corporate O&M preventative maintenance program.	Implemented	Standard operating procedure.
76	Continue to implement the corporate re-commissioning plan.	Explored	Currently re-commissioning buildings as needed.
77	Continue to use the EMIS chosen in Year 1 to track and analyze energy use at the building level.	Upcoming	This will be possible once the Energy Coordinator position is filled in 2018.
78	Conduct an assessment to ensure that energy data needs are being met, and that staff resources are adequate to manage and collect the data.	Upcoming	This will be possible once the Energy Coordinator position is filled in 2018.
79	Identify an appropriate benchmarking system to monitor the energy performance of buildings (e.g., Energy Star) or join an existing benchmarking group (e.g., Mayor's Megawatt Challenge).	Upcoming	This will be possible once the Energy Coordinator position is filled in 2018.
80	Continue to set up regular site visits and meetings with O&M staff from other municipalities to share information and tour facilities.	Implemented	Standard operating procedure.
81	Continue to send O&M staff to conferences for information sharing.	Implemented	Standard operating procedure.

Acti	Action		Notes
82	Continue to implement the driver-training program.	Implemented	Standard operating procedure.
83	Installing renewables or other alternative generation technologies (e.g., district energy, combined heat and power).	Implemented	 To date, renewables have been installed at: Solar panels installed on the roof of the Mold-Masters SportsPlex in 2014 Solar panels installed on the roof of the Acton Arena in 2017 Solar panels installed on the roof of the Robert C. Austin Operations Centre in 2017 Solar powered traffic signals were installed in 2016 District energy is being studied as part of the Vision Georgetown Secondary Plan exercise.
84	Develop a process for identifying, evaluating and developing renewable energy projects.	Not Yet Started	This initiative will be possible once the Energy Coordinator position is filled in 2018.
85	Produce guidelines for selecting the most energy efficient travel option for work related travel.	Implemented	Halton Hills has been participating in the Smart Commute Program since 2010 and obtained the Platinum Level designation in 2017.

Implemented	Underway	Upcoming	Not Yet Started	Explored
The item has been implemented.	The item is currently being implemented.	The item is ready to be implemented.	No action has been taken to date.	The item has been thoroughly considered.



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