

CORPORATION OF THE TOWNSHIP OF EAST HAWKESBURY

BY-LAW NUMBER 2014-47

BEING A BY-LAW TO APPROVE AN ENERGY MANAGEMENT PLAN FOR THE MUNICIPALITY.

WHEREAS *Section 4(1) of Ontario Regulation 397/11 under the Green Energy Act, 2009* requires a municipality to prepare, publish, make available to the public and implement energy conservation and demand management plans in accordance with *sections 6 and 7 of the Act and with Regulation O.Reg. 397/11,*

WHEREAS the Township of East Hawkesbury is committed to making all reasonable efforts to reduce its energy consumption,

WHEREAS The Corporation deems it expedient to develop and have an energy management plan in place.

NOW THEREFORE the Council of The Corporation of the Township of East Hawkesbury hereby enacts as follows:

1. **THAT** Council hereby approve a five (5) year Energy Management Plan for The Corporation of the Township of East Hawkesbury in accordance with *sections 6 and 7 of the Green Energy Act, 2009 and with O. Reg. 397/11,* identified as Schedule “A” attached hereto and forming part of this By-Law.
2. **THAT** the five-year Energy Management Plan and annual energy use reports be posted on township’s website at www.easthawkesbury.ca , as required.

READ a First, Second and Third Time and duly enacted this 11th day of August, 2014.

“Robert Kirby “

Robert Kirby, MAYOR

“ Linda Rozon”

Linda Rozon, CLERK

Energy Management Plan
Township of East Hawkesbury
From: 2014-01-01 to: 2018-12-31
Schedule A to By-Law No. 2014-47

COMMITMENT

- **Declaration of Commitment:** The Township of East Hawkesbury will make all reasonable efforts to allocate the necessary resources to develop and implement a strategic energy management plan that will reduce our energy consumption and its related environmental impact.

- **Vision:** The Township of East Hawkesbury's vision is to be an environmentally sustainable community. To this end it is looking at reducing its total energy consumption and mitigated costs through the wise use of energy. Wherever possible, the Township will endeavor to increase the awareness and understanding of energy management within the Corporation.

- **Policy:** The Township of East Hawkesbury will incorporate energy efficiency into all areas of our activity including our organizational and human resources management procedures, procurement practices, financial management and investment decisions, and facility operations and maintenance.

- **Goals:** The Township of East Hawkesbury goals in energy management are as follows:
 - reduce its costs through direct and indirect energy savings.
 - reduce the environmental impact of the Township's operation
 - provide guidance necessary for the adoption of a culture of sustainability throughout the community.

- **Overall Target:** The key to a successful long term conservation vision is a strong Energy Plan, with measurable and achievable targets. This plan calls for targeted reductions in energy useable of the Township owned facilities and operations of:
 - 1% reduction of energy per year for the next five years
 - 2011 will be established as the Township's base year that energy reduction results will be measured against.

- **Objectives:** The objectives of the Township are:
 - to improve the management of the Township's energy consumption
 - to set conservation targets for energy reduction
 - to improve the understanding of energy consumption
 - to reduce the Township's carbon footprint on the environment.

ORGANIZATIONAL UNDERSTANDING

- **Our Municipal Energy Needs:** The Township of East Hawkesbury requires reliable, low-cost, sustainable energy sources delivering energy to the most efficient facilities and energy-consuming technology feasible.
- **Stakeholder Needs:** Internal stakeholders (Council, CAO, staff) need to be able to clearly communicate the corporate commitment to energy efficiency, and to develop the skills and knowledge required to implement energy management practices and measures. External stakeholders (the Province, community citizens and groups) need the municipality to be accountable for energy performance and to minimize the energy component of the costs of municipal services.
- **How We Manage Energy Today:** The management of energy consumption and the energy performance of our facilities and equipment are the responsibilities of the CAO/Clerk-Treasurer.
- **Summary of Current Energy Consumption, Cost and GHGs:** The current energy usage by building is detailed in Appendix A. Our energy usage is updated monthly in the energy planning tool and reported annually to the Ministry of Energy.
- **Renewable Energy Utilized or Planned:** The Township of East Hawkesbury aspires to show leadership in the promotion and development of renewable energy systems that are compatible with our asset management and land use planning objectives. As a result, we will investigate the potential to develop solar photovoltaic systems on the rooftops of all corporate facilities with sound, south-facing roofs.

RESOURCES PLANNING

- **Energy Leader:** The CAO/Clerk-Treasurer has been designated as our energy leader with overall responsibility for corporate energy management.

PROJECTS EXECUTION

- **Municipal Level:** The administration and implementation of this energy conservation and demand management plan will be the responsibility of the CAO/Clerk-Treasurer. Since we all use energy in our daily activities, it will also be the responsibility of all municipal staff to be aware of their energy use and work toward a culture of conservation. Through staff training and web based energy management tools, staff will be able to see the results of their efforts, and benchmark between corporate facilities and with industry standards.
- **Asset Level:** In order to sustain a corporate culture of conservation, staff must be engaged in an effective awareness and education program. Although department heads have the lead responsibility in insuring facilities operate efficiently, all municipal staff should be familiar with and utilize energy efficient measures where possible.

REVIEW

- **Energy Plan Review:** We will review and evaluate our energy plan, revising and updating it as necessary, on an annual basis within our corporate planning process.

EVALUATION PROGRESS

- **Energy Consumption:** Our energy consumption in 2012 was reduced by 70.16593 GJ from our 2011 levels of 2,463.45669 GJ.

Township of East Hawkesbury
 Energy Consumption and GHG Emissions
 From: 2011-01-01 To: 2011-12-31
 Appendix A - Energy Management Plan

Facility Name	Address	Total Area (m ²)	Average Hours/Day	Fuel Types	Consumption	Cost (\$)	Energy (ekWh/yr)	GHG Emissions (kgCO ₂ e/yr)	GHG Intensity (kgCO ₂ e/m ²)	Energy Intensity (ekWh/m ²)
Facility Primary Type: Office										
Municipal Office	5151 County Road 14	301	9.28	Propane Elect.	5849.00 L 21705.00 kWh	0	41121.72 21705	9013.22 2084.55	29.94 6.93	136.62 72.11
Facility Type Total							62826.72	11097.76		
Facility Primary Type: Fire										
Fire Station Chute-a-Blondeau	1100 Des Pins	128	0.71	Propane Elect.	2822.00 L 6507.00 kWh	0	19840.23 6507	4348.66 624.93	33.97 4.88	155 50.84
Fire Station St-Eugene	4941 St Paul St	223	2.85	oil 1&2 Elect.	3400.00 L 13760.00 kWh	0	36644.44 13760	9299.53 1321.51	41.7 5.93	164.32 61.7
Facility Type Total							76751.67	15594.63		
Facility Primary Type: Community Centre										
Community Centre Chute-Blondeau	2005 Principale St	830	4.27	Propane Elect.	16208.00 L 71827.00 kWh	0	113951.2 71827	24976.27 6898.27	30.09 8.31	137.29 86.54
Community Centre	1123 Labrosse Street	259	1.42	Elect.	27149.00 kWh	0	27149	2607.39	10.07	104.82
Centre d'Action Ste-Anne-de-Prescott	7888 Arthur Lavigne St	840	2.85	Elect.	86138.00 kWh	0	86138	8272.69	9.85	102.55
Facility Type Total							299065.2	42754.62		
Facility Primary Type: Public Works										
Road Department Garage	5151 County Road 14	490	9.26	oil 1&2 Elect.	13316.00 L 35691.00 kWh	0	143516.9 35691	36421.34 3427.76	74.33 7	292.89 72.84
Ontario Clean Water Agency	1845 Principale	13	23.93	Elect.	66442.00 kWh	0	66442	6381.09	490.85	66442
Facility Type Total							245649.9	46230.19		
Grand Total							684293.5	115677.2		

Township of East Hawkesbury
 Energy Consumption and GHG Emissions
 From: 2012-01-01 To: 2012-12-31

Appendix A - Energy Management Plan

Facility Name	Address	Total Area (m2)	Average Hours/Day	Fuel Types	Consumption	Cost (\$)	Energy (ekWh/yr)	GHG Emissions (kgCO2e/yr)	GHG Intensity (kg CO2e/m2)	Energy Intensity (ekWh/m2)
Facility Primary Type: Office										
Municipal Office	5151 County Road 14	301	9.28	Propane Elect.	4979.00 L 19247.00 kWh	0	35005.13 19247	7672.56 1848.48	25.49 6.14	116.3 63.94
Facility Type Total						0	54252.13	9521.04		
Facility Primary Type: Fire										
Fire Station Chute-a-Blondeau	1100 Des Pins	128	0.71	Propane Elect.	3940.00 L 6399.00 kWh	0	27700.39 6399	6071.48 614.56	47.43 4.8	216.41 49.99
Fire Station St-Eugene	4941 St Paul St	223	2.85	oil 1&2 Elect.	3610.00 L 9820.00 kWh	0	38907.77 9820	9873.91 943.11	44.28 4.23	174.47 44.04
Facility Type Total						0	82827.16	17503.06		
Facility Primary Type: Community Centre										
Community Centre Chute--Blondeau	2005 Principale St	830	4.27	Propane Elect.	18557.00 L 78164.00 kWh	0	130466.01 78164	28596.04 7506.87	34.45 9.04	157.19 94.17
Community Centre St-Eugene	1123 Labrosse Street	259	1.42	Elect.	27542.00 kWh	0	27542	2645.13	10.21	106.34
Centre d'Action Ste-Anne-de-Prescott	7888 Arthur Lavigne St	840	2.85	Elect.	85760.00 kWh	0	85760	8236.39	9.81	102.1
Facility Type Total						0	321932.01	46984.43		
Facility Primary Type: Public Works										
Road Department Garage	5151 County Road 14	490	9.26	oil 1&2 Elect.	10320.00 L 32467.00 kWh	0	111226.66 32467	28226.81 3118.13	57.61 6.36	226.99 66.26
Ontario Clean Water Agency	1845 Principale	13	23.93	Elect.	62098.00 kWh	0	62098	5963.89	458.76	62098
Facility Type Total						0	205791.66	37308.83		
Grand Total						0	664802.96	11317.37		