



## Energy Management Plan

**Township of Enniskillen**

**From: 2014-01-01 to: 2018-12-31**

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**Mayor**

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**Clerk**

**Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2014.**



## Energy Management Plan

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### **Table of Contents**

Commitment	3
Vision	4
Goals – Overall Target, Objectives	5
Organizational Understanding	6
Renewable Energy Utilized or Planned	6
Structure Planning	7
Resources Planning	7
Procurement Planning	7
Projects Execution	8
Review	9
Evaluation Progress	9
Appendix A – Energy Consumption Charts	10



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### **Commitment**

#### ***Declaration of Commitment***

The Township of Enniskillen will allocate the necessary resources to develop and implement a strategic Energy Management Plan that will reduce our energy consumption and its related environmental impact.



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### **Vision**

The Corporation of the Township of Enniskillen will continue to reduce energy consumption and mitigate costs through the wise use of energy. This will involve a collaborative effort to increase the education, awareness and understanding of energy management within the Corporation. Total energy consumption includes electricity and natural gas used at Township owned facilities. This vision can be achieved through the integration of operational efficiencies and by building the foundation for a culture of energy awareness and knowledge within the corporation. Commitment from Council and Senior Administration will demonstrate the leadership and commitment required to ensure the fulfillment of the Municipal Energy Management Plan.



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### **Goals**

The Township of Enniskillen's Energy Management Plan was completed to help achieve the following goals

- \* To continuously improve the energy efficiency of our facilities and processes
- \* To reduce our operating costs
- \* To reduce our energy consumption and greenhouse gas emissions
- \* To provide the guidance and leadership necessary for the adoption of a culture of sustainability

### **Overall Target**

The Township of Enniskillen will attempt to reduce our consumption of natural gas and electricity in our municipal operations.

### **Objectives**

The primary objective of this plan is to improve the management of the Township of Enniskillen's energy consumption in municipal facilities. It is also the objective of this plan to improve the Township's understanding of energy consumption which is essential to meet the energy management goals.



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### **Organizational Understanding**

**Summary of Current Energy Consumption, Cost and GHGs**

**\*\* See Appendix A**

### **Renewable Energy Utilized or Planned**

The Township of Enniskillen currently does not have any renewable energy projects planned.



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### **Structure Planning**

#### ***Staffing requirements and duties***

The Township of Enniskillen will incorporate energy efficiency into standard operating procedures and the knowledge requirements for operational positions.

### **Resources Planning**

#### ***Energy Leader***

The Township of Enniskillen will designate leadership and overall responsibility for corporate energy management. A Municipal Energy Conservation Officer (MECO) will be appointed by Council. The MECO will be the primary point of contact for Council and staff on all energy related operations.

#### ***Energy Training***

The Township of Enniskillen will develop and deliver energy training for relevant staff and Council members. This training will be offered to employees with involvement with energy consuming equipment and employees who make decisions affecting consumption of energy.

### **Procurement Planning**

#### ***Consideration of energy efficiency of acquired equipment***

The purchasing procedures will be modified as required to incorporate energy efficiency into the criteria for selection of materials and equipment.



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### **Projects Execution**

#### **Municipal Level**

The Township of Enniskillen will carry out the required development of business procedures and communication programs and implement them methodically according to the planned time lines within the resources constraints that apply.

#### **Asset Level**

In order to sustain a corporate culture of conservation, staff must be engaged in an effective awareness and education program. Although public works staff have the lead responsibility in ensuring municipal facilities operate efficiently, all staff should be familiar with and utilize energy efficient measures where possible.



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### **Review**

#### ***Energy Plan Review***

The MECO, in collaboration with Council and staff will review and evaluate the Municipal Energy Plan, revising and updating it as necessary.

### **Evaluation Progress**

#### ***Energy Consumption***

The Township of Enniskillen will recommend processes and projects that will reduce energy consumption. To date, examples of completed projects include the changing of T12 to T8 light bulbs at the Municipal Office, Public Works garage and the Water Reservoir which concluded in 2013. The disposal/sale of the Shiloh Community Centre took place in September of 2013 which will eliminate energy consumption for this facility. Future projects that will assist with energy consumption reduction include the upgrade of the heating units at the Water Reservoir in 2014. The current heating units are electric and will be switched to natural gas units. In 2015, there is the potential closure of the LaSalle pumping station. Another potential future project includes the updating of the Marthaville and Oil City street lighting to LED bulbs to assist with energy reduction and reduce operating costs of the street lighting.

## Appendix “A”

### 2011

Facility Type	Total Area	Avg Hours/Day	Fuel Type	Consumption	Cost (\$)	Energy (ekWh/yr)	GHG Emissions (kgCO <sub>2</sub> e/yr)	GHG Intensity (kgC)2e/m <sup>2</sup> )	Energy Intensity (ekWh/m <sup>2</sup> )
<b>Recreational Facilities</b>	425	3.5	NG	7643	1766	81228	14450	171	961
			Electricity	7094	1265	7094	695	5	46
			Oil	1483		15983	4056	18	72
<b>Municipal Office</b>	425	6	NG	5521	1429	58676	10438	25	138
			Electricity	28263	3737	28263	2771	7	67
<b>Public Works Facilities</b>	914	78	NG	7318	1747	77774	13836	20	111
			Electricity	127917	35468	127914	12541	49	90504

### 2012

Facility Type	Total Area	Avg Hours/Day	Fuel Type	Consumption	Cost (\$)	Energy (ekWh/yr)	GHG Emissions (kgCO <sub>2</sub> e/yr)	GHG Intensity (kgC)2e/m <sup>2</sup> )	Energy Intensity (ekWh/m <sup>2</sup> )
<b>Recreational Facilities</b>	425	3.5	NG	5337	1570	55516	10166	103	578
			Electricity	7399	2220	7399	725	5	47
			Oil	1216	1346	13106	3326	15	59
<b>Municipal Office</b>	425	6	NG	3758	893	39939	7105	17	94
			Electricity	25894	3602	25894	2547	6	61
<b>Public Works Facilities</b>	914	78	NG	4594	1091	48824	8686	12	70
			Electricity	136787	22464	136787	13411	606	105073

### 2013

Facility Type	Total Area	Avg Hours/Day	Fuel Type	Consumption	Cost (\$)	Energy (ekWh/yr)	GHG Emissions (kgCO <sub>2</sub> e/yr)	GHG Intensity (kgC)2e/m <sup>2</sup> )	Energy Intensity (ekWh/m <sup>2</sup> )
<b>Recreational Facilities</b>	425	3.5	NG	7183	1997	76339	13580	130	730
			Electricity	7614	2307	7614	746	5	47
			Oil	1897	1269	20445	5189	23	92
<b>Municipal Office</b>	425	6	NG	4030	863	42830	7619	18	101
			Electricity	24882	4113	24882	2439	6	59
<b>Public Works Facilities</b>	914	78	NG	4926	1055	52352	9313	13	75
			Electricity	143891	24411	143891	14107	572	113423

