

Energy Management Plan

Township of North Huron

From: 2017-01-01 to: 2021-12-31

Commitment

- **Declaration of Commitment:** Council Resolution: We 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.
- **Vision:** We exercise stewardship in our use of finite energy resources to demonstrate leadership, optimize our delivery of services, and enhance the overall quality of life in our community.
- **Policy:** We 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:** To continuously improve the energy efficiency of our facilities and processes in order to reduce our operating costs, our energy consumption and the concomitant greenhouse gas emissions.
- **Overall Target:** The Township has not set a specific percentage reduction target but has determined that energy reduction measures will be considered as an ongoing part of the Township's day to day operations and future decision making processes.
- **Objectives:** 1) To complete the Township of North Huron LED Streetlight Conversion Project, 2) to convert the lighting at the Blyth Community Centre to LED, 3) to replace the HVAC units at the Township Municipal Office with energy efficient models, 4) to complete the TD Tree Days Planting Project and 5) to include energy savings data in future tender documents.

Organizational Understanding

- **Our Municipal Energy Needs:** We need 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.
- **Municipal Energy Situation:** Strengths, Weaknesses, Opportunities and Threats: Our assessment of organizational capacity for energy management with respect to energy policy; organizational structure; employee awareness, skills and knowledge; energy information management; communications; and investment practices indicates the following high, medium and low priorities for development: 1) To complete the Township of North Huron LED Streetlight Conversion Project, 2) to convert the lighting at the Blyth Community Centre to LED, 3) to replace the HVAC units at the Township Municipal Office with energy efficient models, 4) to complete the TD Tree Days Planting Project and 5) to include energy savings data in future tender documents
- **How We Manage Energy Today:** The management of energy consumption and the energy performance of our facilities and equipment are the responsibilities of Recreation and Facilities (facility management) Finance (cost management), Works Department (maintenance), and department managers (operations).
- **Summary of Current Energy Consumption, Cost and GHGs:** The total annual energy consumption in municipal operations is:

Summary	ekWh/yr	Cost	GHG emissions (kg C02e/yr)
2015	5487599.19	\$674,007.29	551797.20
2014	5805065.39	\$669,946.50	719251.84
2013	5880913.54	\$623,532.80	804293.98
2012	5311090.87	\$523,498.65	702681.62
2011	5497838.50	\$544,805.03	746012.24

- **Summary of Current Technical Practices:** Our assessment of operations and maintenance practices, facility and equipment condition, and energy performance indicators establishes the following priorities (list; e.g. development of standard operating procedures incorporating energy efficiency optimization, enhancement of preventative maintenance procedures, retrofit of lighting system in recreation complex, etc.).

- **Renewable Energy Utilized or Planned:** The Township of North Huron 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.

Strategic Planning

- **Links with other municipal plans:** As an integral component of the management structure, the energy management plan is coordinated with the municipality's budget planning process, preventative maintenance plans, environmental management plan, and the overall asset management plan.

Structure Planning

- **Staffing requirements and duties:** We will incorporate energy efficiency into standard operating procedures and the knowledge requirements for operational jobs.

Resources Planning

- **Energy Leader:** We will clearly designate leadership and overall responsibility for corporate energy management.

- **Energy Team:** The Township of North Huron has established an Energy and Environment Team.

- **Internal Resources:** We will develop criteria for determining whether internal resources can be utilized for the implementation of energy projects.

- **Energy Training:** We will develop and deliver energy training for relevant staff and Council members. This training will not be limited to operators and maintainers with "hands-on" involvement with energy consuming equipment but will also include others since they also make energy consumption decision in their daily work. Training focused on the energy use and conservation opportunities associated with employees job functions will be utilized whenever possible.

Procurement Planning

- **Energy Purchasing:** We will develop a procedure for the negotiation of energy purchase contracts that appropriately addresses our cost considerations, available energy services, energy quality and reliability, and other performance factors.

- **Consideration of energy efficiency of acquired equipment:** Our purchasing procedures will be modified as required to incorporate energy efficiency into the criteria for selection of materials and equipment.

Investment Planning

- **Creative Approaches:** We will investigate and document options for the implementation of energy projects that utilize public-private partnerships, creative financing arrangements including energy performance contracting, and other creative approaches.

Implementation Planning

- **Business Procedures:** We will carry out a comprehensive review of all business processes and modify them as necessary in order to incorporate energy efficiency considerations.

Projects Execution

- **Municipal Level:** We 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:** We use department and facility energy team representatives to facilitate the implementation of facility level business procedures and communication initiatives, including energy performance reporting.

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.