



Township of Hornepayne

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ENERGY CONSERVATION AND DEMAND MANAGEMENT PLAN

September 2014
To
August 2019



Energy Conservation and Demand Management Plan

Corporation of the Township of Hornepayne
September 2014 to August 2019

COMMITMENT

The Township of Hornepayne will organize for energy management, develop the required skills and knowledge, manage energy information, communicate with our stakeholders, and invest in energy management measures. As an integral component of the management structure, the Energy Conservation and Demand Management Plan is to be coordinated with the municipality's budget planning, strategic plan, purchasing policy, preventative maintenance plans, environmental management plan, asset management plan and the policy development process.

Declaration of Commitment: by Council Resolution: The Corporation of the Township of Hornepayne will allocate the necessary resources to develop and implement an Energy Conservation and Demand Management Plan as required under Regulation 397/11 of the Green Energy Act. Council supports energy planning because it will help avoid cost increases, improve service delivery, and support local industry while protecting human health and the environment. Our Energy Conservation and Demand Management Plan enable a commitment to reduce energy consumption and the environmental impact. Staff and council will ensure that the objectives presented in this plan are achieved and that progress towards those objectives is monitored on an ongoing basis. Staff and council will update the plan as required under Regulation 397/11 of the Green Energy Act or any subsequent legislation.

VISION

We will strive to continually reduce our total energy consumption and associated greenhouse gases (GHGs) through wise and efficient use of energy and resources, while still maintaining an efficient and effective level of service for our clients and the general public. This will involve a collaborative effort to increase the education, awareness, and understanding of energy management within the municipality. Total energy consumption includes electricity, propane and oil. This vision can be achieved through the integration of energy efficiency facility infrastructure, operational efficiencies, and building the foundation for a culture of energy awareness and knowledge within the municipality. While commitment from Council and Senior Management is crucial, everyone has a role in the wise use of energy and to showcase appropriate leadership within corporate facilities and operation.

POLICY

The Corporation of the Township of Hornepayne will incorporate energy efficiency into all areas of our activity including our organizational and human resources management procedures, procurement practices, financial management, investment decisions, and facility operations and maintenance. As a major component of the operating costs of municipal facilities and equipment, energy costs will be factored into the lifecycle cost analysis and asset management analyses and policies of the municipality. All departments have clear links to some or all of the goals and objectives of the Energy Conservation and Demand Management Plan.

GOALS

The Corporation of the Township of Hornepayne Energy Conservation and Demand Management Plan was completed to help achieve the following goals:

1. Maximize fiscal resources and avoid cost increases through direct and in direct energy savings
2. Reduce the environmental impact of the municipality's operations
3. Increase the comfort and safety of staff and patrons of the municipality's facilities
4. To create a culture of conservation within the municipality.
5. To improve the reliability of the municipality's equipment and reduce maintenance.

MUNICIPAL ENERGY NEEDS

Our Municipal Energy Needs: The Corporation of the Township of Hornepayne requires reliable, low-cost, sustainable energy sources delivering energy to facilities and energy-consuming technology.

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 and infrastructure.

MUNICIPAL ENERGY SITUATION

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 issues:

- * Energy use and costs continue to increase and are forecast to increase further.
- * Energy is not visible to municipal decision makers such as Council, senior management, front-line staff, and members of the public. This leads to a lack of understanding of the costs of energy and the opportunities for energy efficiency.
- * Occasional efforts are made to raise general staff awareness about energy.
- * Additional municipal responsibilities and services have had an important impact on existing facilities and several of these facilities can no longer operate under the existing physical conditions.
- * The requirement for this Energy Conservation and Demand Management Plan provides an opportunity to build upon current initiatives such as the Asset Management Plan, Municipal Facility Accommodations Review and the Municipal Strategic Plan

ENERGY PROJECTS COMPLETED AND STUDIES COMPLETED:

- Energy Audit completed by Ontario Clean Water Agency at Water Treatment Facility. (Oct. 2014)
- Energy Audit completed by Ontario Clean Water Agency at Waste Water Treatment Facility (Oct. 2014)
- Energy Retrofit at following Locations with Save On Energy Program: Municipal Office and Fire hall , Public Works Garage, Waste Water Plant and Garage, Municipal Airport Terminal and Garage (2012-2014)

CURRENT ENERGY CONSERVATION MEASURES

The Township of Hornepayne has taken several measures to ensure that energy conservation remains a priority. The Township monitors on a monthly and yearly basis the hydro usage of each municipally owns building. The hydro usage data is analyzed and used for targeting possible cost/energy savings.

The following initiatives and changes have occurred in order to reduce energy costs and or usage:

Installation of Log meters for Curling Club and Arena Ice Plants	So we may log hours of use. Collection of Data
Replaced Hot Water Heaters	Hot Water Tanks at Arena Replaced Newer Models , Less Energy Consumption as more energy efficient
Repair Arena Roof	Increase R Value
Repair to Curling Club Building Roof	Increase R Value
LED Street Lights	Project under way to convert existing street lights to LED

FUTURE ENERGY CONSERVATION MEASURES BEING CONSIDERED

In keeping with our commitment, the Corporation of the Township of Hornepayne

Training of all Staff to seek cost saving measures during purchasing process	On going
Acquire more energy efficient products	On Going
When looking to replace old model of fleet vehicles purchase vehicles with smaller engines which use less fuel	On Going
Retrofit/Upgrade of Waste Water Facility	Plant is obsolete and near end of life. Applied for funding. In planning we have noted the possibility of upgrading pumps and motors that are more efficient and consume less energy,
Municipal Office and Fire Hall	LED Office lighting, LED Exit Lights
Arena and Curling Club Buildings	Trillium Funding Application for LED Lighting for Arena Ice Surface, LED Exit Lights Arena

In keeping with our commitment the Corporation of the Township of Hornepayne will continue to find innovative cost efficient solutions regarding energy consumption.

The Corporation of the Township of Hornepayne has taken significant steps in reducing the amount of energy consumption throughout municipal facilities and equipment. Our staff by teamwork, communication and commitment will be able to find more efficient and effective ways to reduce consumption of energy during the delivery of municipal services to the citizens of Hornepayne.

Together we all save.



Summary of Current Energy Consumption, Cost and GHGs:

The current energy usage by building is detailed in Appendix A 2011, Appendix B 2012, and Appendix C 2013. Our energy usage is updated monthly in the Energy Planning Tool (EPT) and reported annually to the Ministry of Energy.