



TOWNSHIP OF BLANDFORD-BLENHEIM

ENERGY MANAGEMENT PLAN

2014

Our Commitment

Council Resolution

At the Council meeting of May 7, 2014 the Council of the Township of Blandford-Blenheim approved the following 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 in order 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 procurement practices, financial management decisions and facility operations and maintenance.

Historic Commitment to Energy Savings

In the past the Township has undertaken a number of initiatives in response to the need to maximize fiscal resources by becoming more efficient in the use of energy. Some of these initiatives have included:

- Replaced all streetlight fixtures with LED lights
- Incorporated energy savings measures into the renovation of the Plattsville Memorial Community Arena such as:
 - Replacing the high pressure sodium fixtures with T5 fixtures
 - Matching lighting levels to facility use
 - Reducing flood water temperatures to 120F
 - Added insulation to west wall
- All exterior lights at the Drumbo shop have been changed to LED lights
- Occupancy sensors have been installed in low traffic areas such as the washrooms in the administration building and the new washroom in the Drumbo addition
- Wallpacks have been upgraded to LED

- Created a standard for insulation levels for new facilities and upgrading existing Public Works facilities
- Installed 2-stage natural gas-fired tube heaters at the Innerkip shop.
- Participate in the electricity and gas procurement program through LAS, a division of AMO, which provides savings through competitive energy purchasing.

Goals (long term)

To continuously improve the energy efficiency of our facilities and processes to reduce our operating costs, our energy consumption and the concomitant greenhouse gas emissions.

In order to achieve the above, three main goals have been identified:

- Reduction in energy consumption
- GHG reduction
- Cost savings

Overall target

To achieve these goals, the Township will reduce the consumption of fuels and electricity by an average of 2% per year until 2019, which will reduce Greenhouse Gas Emissions and produce cost savings.

	2012 level	Goals by 2020	Target Year
Electrical Consumption	116,139 kwh	100,825	2019
Natural Gas Consumption	68,792 m3	59,720	2019

Objectives

- Maximize our fiscal resources through direct and indirect energy savings.
- Reduce the environmental impact of the Township’s operations.
- Increase the comfort and safety of staff and patrons of the Township facilities.
- Improve the reliability of Township equipment and reduce maintenance.
- Develop a culture of environmental sustainability.
- Improve the Township’s understanding of energy consumption which is essential for us to meet our corporate energy management goals.

Summary of Current Energy Consumption

The total energy consumption in municipal operations for 2012 was 847,245.04 ekWH at a cost of \$125,220 per year and GHG emission of 141,446.28 kg/year eCO₂.

Factors which influence Energy Consumption

Special events, such as those listed below, may influence energy consumption:

- Anticipated increase/decrease in building occupancy
- Unusual weather (i.e. mild winter, hot and humid summers)
- Closing of a facility
- An increase/decrease in unit energy cost by the supplier
- Addition of new facilities

Staff Resources

The Senior Management Team will be responsible for the overall implementation of the energy management plan, particularly, in their respective facilities.

It is important that all staff understands the importance of energy management and that an overall culture of energy efficiency is developed. All staff should have ownership in the success of this plan.

A communication, awareness and training program is a key component in the overall energy management program and will be undertaken where needed including communication and awareness strategies.

Action Plan

An assessment of the Township's current activities in regards to energy initiatives revealed actions to be implemented that will improve the Township's energy performance.

Process Improvement

- Provide comprehensive energy data to senior management and other identified staff
- Develop a communications plan to promote the importance of energy efficiency and energy use/savings to staff

Program implementation

- Ensure a preventative maintenance program is implemented for each facility
- Continue to update and maintain the Corporate Energy Management Plan
- Develop and implement a facility walk-through checklist to be used by managers

Projects

- Continue to implement system upgrades
- Implement alternative energy projects
- Incorporate green building features to improve energy and water efficiency as able
- Implement energy efficient standards when replacing equipment

Energy Plan Review

The energy management plan will be reviewed and updated annually.