



TOWNSHIP OF LANARK HIGHLANDS

*ENERGY CONSERVATION AND DEMAND MANAGEMENT
MEASURE: DECREASING GREENHOUSE GASSES*

Effective Date: August 1, 2014



GREEN HOUSE GAS EMISSIONS REDUCTION PLAN

EXECUTIVE SUMMARY

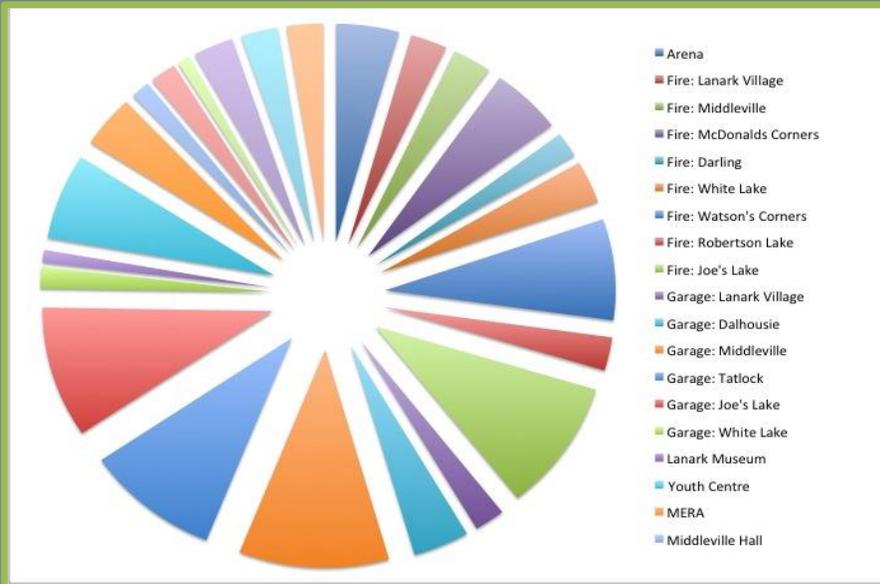
The Township of Lanark Highlands is committed to the conservation and protection of natural resources through its governing methods. The following plan is designed to demonstrate the municipality's compliance with Ontario Regulation 397/11 under the "Green Energy Act 2009". The Township of Lanark Highlands seeks to reduce the consumption of fossil fuels and other non-renewable energy sources, and therefore increase the level of energy efficiency throughout the Township. As a rural municipality and the largest in the County of Lanark, The Township of Lanark Highlands recognizes the local taxpayers' desire for reduction in consumption and, in turn, reduction in operation costs. Therefore, the Township is committed to developing a plan that will not only consider immediate consumption costs, but also the long-term fiscal, environmental, and social impacts of energy consumption on the local community. An important means of achieving these objectives is by developing a sustainable energy conservation plan that will control the energy consumed within the Township over the next 5 years.

This plan is composed of the following components:

- An overview of the usage and calculations from the 2011 year;
- A description of mandated provincial requirements, and desired local requirements;
- An overview of the Green House Gas Emissions plan's goals and strategy; and,
- An overview of the anticipated financial benefits.

GETTING STARTED

Due to the need for increased accountability and transparency in the realm of energy conservation and management, the Government of Ontario instated a requirement as of 2011 for all municipalities to make energy consumption reports public. Each municipality's energy usage is documented and calculated to determine the annual Green House Gas (GHG) emissions from the township facilities. The Township of Lanark Highlands uses the following means of energy: electricity, propane gas, heating oil, and natural gas. The amounts of energy in kilowatts/hour and litres cubed metres was documented, then calculated by the number of hours per week the facility is used, as well as the square footages of the buildings. Township facilities included in the calculations were the Town Hall administrative building, Township garages, fire stations, the community halls, the arena, and the library.



The chart to the left represents the Energy Intensity used by the Township facilities in e kWh per square foot. As represented in this image, the arena, Youth Centre, and some of the garages have the highest usages, likely due to the fact that they are in operation more than other facilities like the rural community centres. As can be assumed, these facilities, along with the Town Hall, have the highest GHG Emissions (in Kgs), as they are the largest in square footage, and are used by residents and staff more than other facilities.

As a result, these facilities will be the primary focus for energy consumption reduction. However, where reductions can be made in other facilities, the Township will make every effort to do so as well.

PROJECTED TIMELINE

The Province of Ontario has mandated that municipalities must publicize their energy consumption reports annually, beginning with the 2011 calendar year, which was due to be made public as of July 2013. Therefore, the energy report for 2012 was completed in July 2014, and the 2013 report will be made public in July of 2015, and so forth. Each report will be made available to the public on the Township of Lanark Highlands' website, as well as in hard copy form at the Township administration building.

The Township is committed to ensuring that the reports are made public in a timely and efficient manner. Once the reports are submitted on the 1st of July each year, they will be reviewed by the Ministry of Energy, and made public within one month following submission. This process will continue annually.

Based on this plan, the Township expects to see a decrease in energy consumption over the next 5 years.



OVERVIEW: GOALS AND STRATEGY

GOALS

The Township of Lanark Highlands is the largest municipality in Lanark County. Due to its large size, there are a number of garages and fire facilities to upkeep to ensure roads are always well maintained and residents are safe. These facilities are in good working order, and many have changed from fuel oil heating to propane to increase efficiency. The community centres have lower energy consumption as they are used less frequently than the Township maintenance facilities. The facility with the highest usage is the arena, due to its large size and the frequency of its use in the winter months for Township residents' enjoyment. Though the Township does take every effort to conserve, there is always opportunity for improvement. The Township is committed to achieving the following goals:

- 1) Reduce GHG emissions overall by Township facilities per square foot by 10% from 2011 levels by 2018;
- 2) Reduce GHG emissions by a further 5% by 2025

FINANCIAL BENEFITS

By following these measures and promoting education and control of energy while utilizing the human resources the Township currently has, the Township and its ratepayers are bound to incur financial savings over the course of the next five years of this plan, and continuing into the future. Regardless of uncontrollable circumstances all conservation is good conservation and will benefit all members of the Township of Lanark Highlands community.