



Energy Conservation and Demand Management Plan 2014-2019

Commitment

Middlesex Centre Council is committed in allocating necessary resources to develop and implement a five year Energy Conservation and Demand Management Plan as required under Regulation 397/11 of the Green Energy Act. The Energy Conservation and Demand Management Plan will strive to reduce our energy consumption and its related environmental impact as outlined in our overall target. Council and staff will monitor its continuous progress towards the objectives set in this plan and will update as required under Regulation 397/11 of the Green Energy Act or any subsequent legislation.

Vision

The Municipality of Middlesex Centre will 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.

Goals

The Municipality of Middlesex Centre will 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. The Municipality of Middlesex Centre's Energy Conservation and Demand Management Plan will strive to achieve the following goals:

- 1) Maximize fiscal resources and avoid cost increases through direct and indirect energy savings.
- 2) Reduce the environmental impact of the Municipality's operations.
- 3) Increase the comfort and safety of staff and patrons of the municipal facilities.
- 4) Improve the reliability of municipal equipment and reduce maintenance costs.
- 5) Promote a culture of energy conservation within the municipality.

Target

The Municipality will reduce our consumption of fuels and electricity in all municipal operations by an average of 1% per year between now and 2019, resulting in a 5% reduction in energy consumption by the year 2019 (using 2012 energy consumption data as the baseline).

Objectives

In order to achieve the success of the strategic direction of the Energy Plan, there are a number of goals and objectives that align with its development and implementation. The following are the strategic objectives:

- 1) The creation of a culture of conservation within the Municipality will serve to reduce greenhouse gas emissions and ensure the wise use of resources and fiscal

accountability through savings and cost avoidance will lead to both direct and indirect savings.

- 2) Demonstrate leadership within the Municipality and community as to the commitment to energy management and the investigation of new and emerging technologies.
- 3) Demonstrate sound operating and maintenance practices to complement the energy efficiencies implemented through the capital asset renewal program.
- 4) Provide a forum for discussion within the Municipality on energy management to be able to explore new ideas and trends. With the development of the Energy Plan, all Corporate Departments will have a roadmap and a forum to continue to ensure energy management is a consideration in all operations and facility based decisions. The integration of operational processes, facility based infrastructure improvements and staff awareness is critical to move the Municipality towards the goal of reducing GHG emissions and transition to a carbon neutral future.

Energy Consumption

The total annual energy consumption in municipal operations for 2012 was 5,252,514 kWh/year, with a total 2012 Greenhouse Gas (GHG) emissions estimated at 1,112,026 kg.

Renewable Energy Utilized or Planned

The Municipality of Middlesex Centre 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. The Municipality has recently (2011) installed a solar photovoltaic system on the rooftop of the Middlesex Centre Wellness & Recreation Complex.

Energy Leader

The Director of Community Services is designated as leader of energy planning and has been given overall responsibility for the Energy Conservation & Demand Management Plan. The Director of Community Services is supported in this role through collective decision making of the Management Team represented by the CAO, Departmental Directors and Supervisors across all municipal departments.

Project Execution - Municipal Level:

The administration and implementation of this plan will be responsibility of the Director of Community Services. Since we all use energy in our daily activities, it will also be the responsibility of all Municipal staff to be aware of their energy use and work towards a culture of conservation. Through staff training and web base energy management tools, staff will be able to see the results of their efforts, and benchmark between corporate facilities and with industry standards.

Project Execution - Asset Level:

In order to sustain a corporate culture of conservation, staff must be engaged in an effective awareness and education program. Although facilities staff has the lead responsibility in ensuring municipal facilities operate efficiently, all municipal staff should be familiar with and utilize energy efficient measures where possible. The first step in implementing an energy management program is the completion of energy audits for municipal facilities. Audits involve a technical review of a facility and its operations, the development and analysis of a baseline energy profile for the facility and identification of energy management opportunities and savings.

Energy Plan Review

The Senior Management Team will review and evaluate the Municipality of Middlesex Centre's Energy Conservation and Demand management Plan annually, revising and updating as necessary within the corporate budget planning process.

Energy Consumption

The Municipality's energy consumption progress will be monitored on an annual basis as part of the plan review process to ensure the municipality is on target to achieve its target of 1% each year in the consumption of fuels and electricity.