



Township of O'Connor

5 Year

Energy Conservation & Demand Management Plan

2019 - 2023

INTRODUCTION

[Ontario Regulation 507/18](#) (Broader Public Sector: Energy Reporting and Conservation and Demand Management Plans), under the Electricity Act, 1998, requires broader public sector (BPS) organizations, such as municipalities, to develop a Conservation Demand Management (CDM) Plan and update it every five years. The Township of O'Connor's updated CDM plan was developed in compliance with the regulation and covers the period from 2019 to 2023. The plan was approved by council on June 24, 2019.

The plan describes our municipality's:

- Information on the annual energy consumption during the last year (2017) for which complete information is available for the full year;
- New energy conservation goals and objectives;
- Current and proposed energy conservation measures;
- Results from the first CDM plan; and
- Changes made from the previous plan to help achieve the new goals and objectives.

Our updated CDM plan builds on the municipality's initial [Energy Conservation and Demand Management Plan](#) developed in 2014 and the experience gained in energy conservation over the last 5 years.

In addition to energy conservation, the updated CDM plan supports our Accounting for [Accounting for Tangible Capital Assets Policy](#), [Asset Management Plan](#) and [Strategic Asset Management Policy](#).

Hard copies of the plan are available at the township office located at 330 Highway 595 during regular office hours.

The infrastructure owned and operated by the Township of O'Connor that are targeted in this plan are the Municipal Office, Community Centre, Garage and Fire Hall. The Township does not provide water or sewage treatment, does not provide street lighting on municipal roadways and does not own or operate renewable energy generation facilities.

ANNUAL ENERGY CONSUMPTION

The Township of O'Connor utilizes three types of energy in its facilities: electricity, fuel oil and propane. Currently fuel oil is purchased through the Local Authority Services' (LAS) bulk purchase program. LAS is a subsidiary of the Association of Municipalities of Ontario (AMO) and is a program intended to provide municipalities with cost savings and information on price fluctuations.

Electricity is purchased through Hydro One and propane is purchased through Superior Propane, located in Thunder Bay, Ontario.

Schedule "A" of this Plan is the Township's annual energy consumption starting with 2017 for the 2019 reporting year. The schedule will be updated each year, accordingly, by the 1st of July.

GOALS AND OBJECTIVES FOR CONSERVING ENERGY

The goals for the Township of O'Connor are to maximize the efficient use of its fiscal resources and to minimize the negative environmental impact of our operations.

Our energy conservation objectives include:

- Reducing the comparative energy consumption by 10% with prior years;
- Improving the energy efficiency of our facilities by utilizing best practices to reduce our energy consumption, as well as lessen the financial impact of increasing energy costs;
- Educating municipal staff in energy conservation;
- Integrating the energy conservation plan with the Accounting for Tangible Capital Asset Policy, Asset Management Plan and Strategic Asset Management Policy;
- Reducing greenhouse gas (GHG) emissions that result from our energy use.

ENERGY CONSUMPTION MEASURES AND SAVINGS

Behavioural Measures for all Municipally Owned Facilities: Council and municipal staff members are continually aware of the increasing costs associated with the operation of a municipality. Budget deliberations bring to light the increasing need to conserve energy and save on energy costs as these same costs increase every year. Revenues generated through property taxation to meet the financial needs of the municipality must take into consideration the financial burden on the ratepayers. With this in mind the Council and staff members are aware that measures must be taken to reduce costs and are encouraged to share suggestions or ideas that will promote energy conservation.

Reporting our energy consumption allows our municipality to understand how energy is used in our buildings, identify potential energy conservation opportunities and track progress on energy conservation efforts.

Our previous years' annual energy reports, along with the 2014 Energy Conservation and Demand Management Plan can be found on our website. Overall energy consumption across all municipal buildings reported on was reduced by 25% by 2018.

The energy consumption reductions were:

- 39% reduction at the O'Connor Roads Department Garage resulting from the lighting changeover; and
- 39% reduction at the O'Connor Municipal Office resulting from the lighting changeover; and
- 15% reduction at the O'Connor Fire Department Hall resulting from the lighting changeover; and
- 6% reduction at the O'Connor Community Centre resulting from the changeover from fuel oil to propane heating, lighting changeover and a new energy efficient propane stove.

In addition to the municipality benefitting from reducing its energy use, residents also benefit from more efficient use of taxpayer dollars and better maintained/operated public buildings and facilities.

Municipal Office

Technical Measures: The Municipal Office operates an average of 33 hours per week. The construction of the office was completed in March of 2010. Energy efficiency was a priority when the building was being designed and continues to improve with newer energy efficient innovations. Since 2014, the municipal office has seen a changeover to T8 lamps utilizing 40% less energy than the older T12 lamps, as well as newer energy efficient air conditioning units.

Organizational Measures: Staff continues to conserve energy ensuring all interior lighting and equipment is turned off when the building is not in use. Outdoor lights on the municipal office were changed over to more efficient LED lighting in 2019.

Community Centre

Technical Measures: The Community Centre operates an average of 15 hours per week. Since 2014, the Community Centre has changed over from fuel oil heating to propane heating with new energy efficient propane furnaces installed. The Community Centre has seen a changeover to T8 lamps utilizing 40% less energy than the older T12 lamps, as well as a changeover from incandescent to LED A Shape bulbs and the replacement and installation of a more energy efficient propane stove/oven including hood exhaust fan.

Organizational Measures: There is no new construction in the foreseeable future, however it is the position of Council that if any new construction or improvements are to be made that the highest and most affordable and practical options be researched and implemented. In order to conserve energy, the heating temperature is set low and all lighting is turned off when the facility is not in use.

Municipal Garage

Technical Measures: The garage operates an average 40 hours per week. Since 2014, the garage has seen a changeover to T8 lamps utilizing 40% less energy than the older T12 lamps, as well as a changeover from incandescent to LED A Shape bulbs. Aluminum and vinyl weather stripping has been placed around all garage doors to limit air leaks.

Organizational Measures: There is no new construction in the foreseeable future, however it is the position of Council that if any new construction or improvements are to be made that the highest and most affordable and practical options be researched and implemented. In order to conserve energy, all lighting is turned off when the facility is not in use. During daytime operations, lights are off, with exception of one in the main shop area.

It is the Township's plan to improve the energy efficiency of the building through energy programs when they become available.

Municipal Fire Hall

Technical Measures: The fire hall operates an average of 3 hours per week. Since 2014, the garage has seen a changeover to T8 lamps utilizing 40% less energy than the older T12 lamps, as well as a changeover from incandescent to LED A Shape bulbs. Vinyl weather stripping has been placed around all garage doors to limit air leaks.

Organizational Measures: There is no new construction in the foreseeable future, however it is the position of Council that if any new construction or improvements be made that the highest and most affordable and practical options be researched and implemented. In order to conserve energy, all lighting is turned off when the facility is not in use. As an emergency facility the temperature is maintained at a constant level to ensure that emergency response equipment is ready to roll immediate. To conserve energy the air exhaust fan is on a timer switch so as not to run on a continuous basis when vehicles leave out on a call.

It is the Township's plan to improve the energy efficiency of the building through energy programs that become available.

COUNCIL CONFIRMATION

Declaration of Commitment

The Township of O'Connor will use existing resources and leverage outside agencies where appropriate to reduce our energy consumption and its related environmental impact.

Vision

The Township is continually looking to reduce our total energy consumption and associated carbon footprint while providing an efficient and effective level of service for our residents.

Resolution

On June 24, 2019 the Council of the Township of O'Connor passed resolution # 11 (Schedule "B") adopting the Energy Consumption and Demand Management Plan. The resolution confirms Council's approval of the Plan and affirms their commitment to implement the plan.

Schedule "A"

Energy Consumption
&
Greenhouse Gas
Emissions Reporting

2019

2020

2021

2022

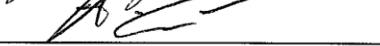
2023

Schedule "B"

TOWNSHIP OF O'CONNOR
R. R. #1 KAKABEKA FALLS, ONTARIO POT 1W0

JUNE 24, 2019 NO. 11

Moved by 

Seconded by 

WHEREAS ONTARIO REGULATION 507/18 – (BROADER PUBLIC SECTOR: ENERGY REPORTING AND CONSERVATION AND DEMAND MANAGEMENT PLANS) (CDM) REQUIRES BROADER PUBLIC SECTOR ORGANIZATIONS TO:

- REPORT THEIR ANNUAL ENERGY CONSUMPTION AND GREEN HOUSE GAS (GHG) EMISSIONS TO THE MINISTRY AND MAKE THAT INFORMATION AVAILABLE ON THE WEBSITE AND IN HARD COPY; AND
- DEVELOP AND IMPLEMENT CDM PLANS AND UPDATE THEIR CDM PLANS EVERY FIVE YEARS. ORGANIZATIONS ARE REQUIRED TO POST THEIR PLANS ON THEIR WEBSITE AND MAKE THEM AVAILABLE IN HARD COPY;

AND WHEREAS THE REGULATION REQUIRES CONFIRMATION THAT THE PUBLIC AGENCY'S SENIOR MANAGEMENT HAS APPROVED THE ENERGY REPORTING AND CONSERVATION AND DEMAND MANAGEMENT PLAN;

THEREFORE BE IT RESOLVED THAT THE COUNCIL OF THE TOWNSHIP OF O'CONNOR DOES HEREBY APPROVE THE 5 YEAR ENERGY CONSERVATION AND DEMAND MANAGEMENT PLAN 2019-2023.


MAYOR

CARRIED

DEFEATED

RECORDED VOTE

ALEX CRANE

WENDY HANDY

JERRY LOAN

BISHOP RACICOT

JIM VEZINA