

# Energy Management Plan

## Township of Front of Yonge

From: 2014-01-01 to: 2018-12-31

### Commitment

- **Declaration of Commitment:** Council 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 to demonstrate leadership, optimize our delivery of services, and enhance the overall quality of life in our community.
- **Goals:** To continuously improve the energy efficiency of our facilities and processes in order to reduce our operating costs, our energy consumption and the resulting greenhouse gas emissions.
- **Overall Target:** 2011 has been established as the Township's base year, as all energy data has been recorded for that year. The overall target for reducing the consumption of fuels and electricity will be a minimum of 1% per year. The primary goal will be to reduce the consumption to the point where the overall cost of hydro is kept approximately the same from year to year, in spite of the increase in rates. The heating fuel consumption will be reduced as much as possible, through the use of energy saving projects.
- **Objectives:** 1. To implement energy audits on all municipal facilities during the next five years; To reduce total energy consumption in municipal facilities, normalized to weather conditions, by a minimum of 1% per year over the next five years.

### Organizational Understanding

- **Our Municipal Energy Needs:** We need reliable, low-cost, sustainable energy sources delivering energy to the most efficient facilities and energy-consuming technology feasible.
- **Summary of Current Energy Consumption, Cost and GHGs:** The total annual energy consumption in municipal operations for 2011 is 328965 ekWh per year, at a cost of \$38603 per year and GHG emission of 39792 tonnes/year eCO<sub>2</sub>.
- **Renewable Energy Utilized or Planned:** The Township of Front of Yonge 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. As a result, we have investigated the potential to develop solar photovoltaic systems on the rooftops of all corporate facilities with sound, south-facing roofs. Two of these systems have been installed.

### Resources Planning

- **Energy Leader:** We will clearly designate leadership and overall responsibility for corporate energy management.

### Projects Execution

- **Municipal Level:** We will carry out the required development of business procedures and communication programs and implement them methodically according to the planned time lines within the resources constraints that apply.
- **Asset Level:** All Township staff should be familiar with and utilize energy efficient measures where possible. The first step in implementing the energy management program is the completion of energy audits for township buildings. Staff and Council should be made aware of the results of the audits, and review the recommendations for improvements which could be made. The financial benefits of energy conservation should be estimated, and used as a motivation to take action. Department Heads must then include the cost of these improvements in their proposed budget, and Council makes the decision as to whether the budget is approved.

## **Review**

- **Energy Plan Review:** We will review and evaluate our energy plan, revising and updating it as necessary, on an annual basis within our corporate planning process.

## **Evaluation Progress**

- **Energy Consumption:** The Township of Front of Yonge has begun to implement some of the recommendations in the first energy audit. As the various changes are made, staff will be in a position to track any reductions in energy usage.

