



# 2014 ENERGY MANAGEMENT PLAN

**Energy Management Plan  
Township of South Frontenac**

**From: 2014-07-01 to: 2019-07-01**

**Declaration of Commitment:**

Council will allocate resources to develop and implement an Energy Management Plan as required under Regulation 397/11 of the Green Energy Act. The Township's commitment is to provide quality programs and services that are both cost effective and environmentally responsible. In keeping with the goal to remain environmentally responsible, effort will be taken to minimize impacts to the environment and reduce energy consumption.

**Vision:**

The vision of the Township is to reduce total energy consumption and thereby reduce the Township's carbon footprint, through the wise and efficient use of energy and resources, while still maintaining an efficient and effective level of services to our customers and the general public. In this case total energy consumption includes electricity, oil, and propane used to heat, cool and operate facilities. The Township of

South Frontenac will continue to reduce energy consumption and mitigate costs through the wise use of energy. This will involve a collaborative effort to increase the education, awareness, and understanding of energy management within the Corporation. Everyone within the Corporation has a role to play in decreasing energy consumption.

**Policy:**

The Township of South Frontenac will consider ways of increasing energy efficiency in facility operations and maintenance.

**Goal:**

Our main goal is to achieve direct and indirect energy savings while reducing the environmental impact of the Townships operations.

**Overall Target:**

The Township is committed to reduce the energy use within facilities that have heating or cooling throughout the Corporation over the next five years. This target will be refined to specific reductions within this first five year period.

**Objectives:**

The following are the objectives of South Frontenac:

- The creation of a culture that is aware of its energy consumption.
- Keeping track of greenhouse gas emissions and ensuring the wise use of energy resources.
- Fiscal accountability through savings and cost avoidance that lead to both direct and indirect energy savings

With the development of the Energy Plan, all Departments will have a roadmap and a forum to continue to ensure that 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 Corporation towards the goal of reducing GHG emissions.

## **Our Municipal Energy Needs:**

South Frontenac needs reliable, low-cost, sustainable energy sources to support its various facilities. Collectively with all of Ontario we will work to reduce our energy consumption or explore alternative methods of obtaining energy, so we can reduce our impact on the environment.

## **Stakeholder Needs:**

Internal stakeholders (Council, Committees of Council, CAO, and Staff) need an up-to-date and relevant energy management plan with a clear vision and goals in order to clearly communicate the corporate commitment to energy efficiency. Annual reports, current information and training are needed to develop and maintain an awareness of energy use and management practices and measures.

## **Energy Leadership:**

Municipal level responsibility for the management of energy consumption, the energy performance of our facilities & equipment and cost management are the responsibility of the Public Works Department. This department will be accountable, transparent and fiscally responsible to the Township for the provision of the Energy Management Plan. Public Works is responsible for the development and implementation of business procedures and communication programs according to the planned time lines within the resources constraints that apply. Environmental initiatives taken on by this department are enhanced by partnerships with outside sources as well as participation of all Township staff members. The Treasury Department will support public works with timely financial reporting.

Every little bit helps and everyone can, indeed, make a difference. In order to sustain a corporate culture of conservation, all staff members will be made aware of the Township of South Frontenac's energy conservation efforts and why they're important. All Township staff should be familiar with and utilize energy efficient measures where possible. Staff will be expected to make any changes in their daily routines that could help reduce energy consumption, as well as keep up with operational standards. Staff will be updated about the results of energy audits and be given suggestions on how to improve their energy consumption at their jobs. Updates on their rate of success or improvement will also be given to staff members so they will be encouraged to continue their efforts. Staff members should be encouraged to do all that they can to help out, including small things like turning the lights off after leaving an empty room.

## **Summary of Current Energy Consumption and GHGs:**

The Township of South Frontenac, like most Ontario municipalities, is challenged with significant budgetary pressures due to reduced levels of funding and increasing costs. It is unknown how quickly energy prices will rise over the next several years and to what degree. The Township of South Frontenac utilized 768,479 kWh in electricity, 86,170 Litres of Fuel Oil and 29,485 Litres of Propane to heat, cool and operate facilities in 2011. The total amount of greenhouse gas emissions for 2011 was 356,378 Kg.

## **Internal Resources:**

The Public Works Department will assess and develop criteria for determining whether internal resources can be utilized for the implementation of energy projects.

## **Consideration of energy efficiency of acquired equipment:**

Purchasing procedures will operate with a green filter, incorporating energy efficiency into the criteria for selection of materials and equipment. Consideration will be given to the purchase of equipment and materials that are both energy efficient, and have a short payback period. Current materials and equipment will be assessed over time to determine if it is feasible to replace some of the less energy efficient items the Township utilizes.

## **Asset Level:**

The first step in implementing an energy management program is the completion of energy audits for corporate 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:**

As part of any energy management strategy, continuous monitoring, verification, and reporting is an essential tool to track consumption and/or avoidance as the result of implemented initiatives. Township of South Frontenac staff will produce an annual Council report with energy consumption data and initiatives undertaken within the calendar year. By regularly monitoring and reporting consumption and/or avoidance to Departments, the outcomes of their participation in energy management initiatives can be demonstrated, and feedback can be obtained for any new ideas. This monitoring and reporting will also align with the requirements of Regulation 397/11 under the Green Energy Act and/or any subsequent legislation related to energy management.

### **Energy Consumption Trends:**

Since this is the Township of South Frontenac's first thorough energy audit, there is no baseline to compare the 2011 findings to.

### **Green House Gas Emission Trends:**

Since this is the Township of South Frontenac's first thorough energy audit, there is no baseline to compare the 2011 findings to. Future audits will allow staff to track Township progress and make amendments to the plan.