

Report HDR – CS - 10 -14

To: Chair Pringle and Members of the Corporate Services Committee
From: Rod Wyatt, Director of Housing
Meeting Date: June 10, 2014
Subject: **Energy Management Plan**
Status: Recommendation adopted by Committee as presented per Resolution CS63-14; Endorsed by County Council July 8, 2014 per Resolution CC97-14;

Recommendation(s)

WHEREAS The Green Energy Act 2009, Regulation 397/11 prescribes that designated public agencies, including every municipality; prepare, publish, make available to the public and implement energy conservation and demand management plans for July 1, 2014;

AND WHEREAS the County of Grey has been monitoring and storing data on energy consumption, cost and greenhouse gas emissions, as required by the Green Energy Act 2009, since 2011;

AND WHEREAS the energy management plan outlines a strategy for the County of Grey to move forward with energy conservation measures until July 1, 2019 when measurements and targets are required to be submitted and published to reduce energy consumption and greenhouse gas emissions and a report on actual results achieved;

NOW THEREFORE BE IT RESOLVED THAT Report HDR-CS-10-14 regarding the Energy Management Plan for the County of Grey be received;

AND THAT the Energy Management Plan for the County of Grey be available on the County of Grey web site for public information.

Background

The Green Energy Act 2009, with its regulation 397/11, required that public agencies, including municipalities, prepare, publish, make available to the public and implement energy conservation and demand management plans.

The County of Grey has been using the Energy Planning Tool provided by the Association of Municipalities of Ontario (AMO), Local Authority Services (LAS) to assist us to manage data on the energy consumption of our facilities. The energy consumption reports provided by the Energy Management Tool meets the reporting requirements of the province by providing information by facility on energy consumption, costs, and greenhouse gases emissions. The Green Energy Act prescribes the types of facilities that information on energy consumption and greenhouse gas emissions have to be tracked. For Grey County, we took advantage of the capabilities of the Energy Planning Tool to add the tracking of facilities such as our public housing portfolio and our three long term care facilities to the list of properties we track and will form part of our plan. This expanded the size of our energy consumption and greenhouse gas emission yearly report to eleven pages (see attached reports for 2011 and 2012). Most municipal reports are two to three pages in length. The additional information will give the County a better over-all view of the entire portfolio of facilities managed.

The additional requirement for July 1, 2014, is an energy management plan outlining the goals and objectives (measures) for conserving and reducing energy consumption and managing demand for energy. The second important date is July 1, 2019 when descriptions of current and proposed measures for conserving and reducing energy consumption and managing its demand for energy, plus a forecast of expected results of the current and proposed measures and a report on the actual results achieved.

The attached energy management plans is a high level overview of how the County of Grey can move-forward with energy conservation measure, using the data we have collected and will continue to collect on consumption by facility. The themes presented in the plan are using the data to analysis potential saving opportunities, and provide a yardstick to monitor progress. The other significant theme is incorporating the awareness among staff of energy conservations so that it becomes part of management decision making, integral part of the budget (both capital and operating) process and becomes part of sound operating and maintenance practices. Departments would build on the guidelines and principals of the energy management plan in managing their facilities. Consumption and savings are tracked to measure the performance on how the plan is implemented over time and will form the basis in the development of specific targets in 2019.

Through the strategic directions provided with the energy plan, and data published with our yearly energy consumption and greenhouse gas emissions report, awareness among staff of conservations and the need to incorporate conservation measure in day to day operations will be enhanced.

Financial / Staffing / Legal / Information Technology

Considerations

To meet the reporting requirements of the Green Energy Act 2009. Energy conservation measure will become part of the budget process (capital and operational) and will encourage departments to take advantage of incentive programs to update facilities with energy conservation measures. Tracking of consumption of energy and greenhouse gas emissions is done through the LAS Energy Planning Tool. Consideration may want to be given to purchasing the LAS Energy Management Tool which takes the raw data provided in the EPL and provides analysis and graphic presentation of the data. This would provide a better understanding of energy management at the County of Grey to staff, council and the public

Link to Strategic Goals / Priorities

Enhances the commitment to the coordinated delivery of responsive and cost-effective services. Explores innovative ways to more effectively and efficiently deliver services and programs. Strengthens the effectiveness of the county's website in providing information and supporting the county's operational and strategic initiatives. Continues to improve communications and collaboration within and between county departments and service areas.

Demonstrates leadership in responsible environmental management practices and energy use throughout all county departments. Develops benchmark and performance indicators to measure and track efficiency and effectiveness in priority service areas.

Attachments

[Energy Management Plan - Grey County Housing](#)

[2011 Energy Consumption and GHG Emissions Report - Housing](#)

[2012 Energy Consumption and GHG Emissions Report - Housing](#)

Respectfully submitted by,

Name	Rod Wyatt
Title	Director Housing

Energy Management Strategy – County of Grey

CONTEXT

The Green Energy Act 2009 – Ontario Regulation 397/11 requires each municipality to develop a plan to reduce energy consumption, rate of consumption and publish annual energy consumption and greenhouse gas emission data.

VISION

The Corporation of the County of Grey will continue to reduce energy consumption and the associated carbon foot print, and mitigate costs through the wise use of energy resources, while still maintaining an efficient and effective level of service for our clients and the general public.

This vision can be achieved through the integration of energy efficient facility infrastructure, operational efficiencies and building a foundation for a culture of energy awareness and knowledge. This will be a collaborative effort to increase education, awareness, and understanding of energy management within the corporation.

STRATEGIC OBJECTIVES

The success of an Energy Plan for the Corporation of the County of Grey will require the development and understanding of the strategic direction for the plan. A number of goals and objectives will need to align with its development and implementation.

The following are the strategic objectives of the energy plan:

- Recording and monitoring the energy consumption and greenhouse gas emissions for all county facilities.
- The creation of a culture of conservation within the Corporation will service to reduce greenhouse gas emissions and ensure wise use of energy.
- Fiscal accountability through savings and cost avoidance will lead to both direct and indirect savings.

- Demonstrate leadership within the corporation and community as to the commitment to energy management and investigate new and emerging technologies
- Demonstrate sound operating and maintenance practices to complement the energy efficiencies implemented through the capital asset renewal program.

The Energy Plan will create a roadmap and a forum to ensure energy management is a consideration in all operations and facility based decisions.

GOALS

- To improve the energy efficiency of our facilities by utilizing best practices to reduce operation costs, energy consumption and greenhouse gas emissions.
- To implement a corporate energy management program to reduce consumption, achieve cost savings, and meet greenhouse gas emission targets (2019).
- To create a culture of conservation.

OBJECTIVES

- Improve awareness of energy consumption in County facilities and make energy management a part of all facility management planning.
- Improve the efficiency of energy use through low-cost opportunities by implementing the following:
 - Sound operating and maintenance practices.
 - Employee training, and staff awareness.
 - Monitoring and tracking energy consumptions and greenhouse gas emissions.
 - Energy reduction/saving is a factor of the procurement evaluations.
 - Energy procurement through fixed rate contracts.

ACTION PLAN

Actions identified with the intent of driving the Corporation of the County of Grey energy management plan forward. They are designed to place the Corporation in a position to identify measureable targets by 2019 as required by the Green Energy Act.

Process Improvement	Objective	Measurement of Success	Completion Date
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	Process Improvement	Objective	Measurement of Success	Completion Date
Energy Data Management	Energy Tracking	Track Consumption/usage	Reduction from 2011 base year, Consideration in planning & budgeting	On-going Key to setting Targets 2019
	Establish Key Performance Measures	Allow for fair comparisons when benchmarking facilities and targeting projects based on conservation potential	Energy plan for each facility	2015
	Building Performance available to public	As required by Green Energy Act, energy consumption and greenhouse gas emissions made available to public	Available on County Web site.	2014
	Staff incorporates energy conservation measure in day to day operations.	Becomes part of budget process and consideration in operation processes.	Reduced energy consumption.	2016
Organization	Energy Reporting and feedback	Provide senior management and managers with feedback on energy consumption of departments and facilities	Facility energy plan and targets Managers will make energy conservation part of staff responsibilities.	2016
Integrations	Energy Management Training	Build internal capacity to ensure that staff are making informed decisions.	Staff from all departments attending internal and external training Sessions	2015

EVALUATION

The results of the energy management plan will be evaluated by the progress of the County of Grey in reducing energy consumption and greenhouse gas emission as reported and posted yearly in accordance with the Green Energy Act. Staff awareness

and in making energy conservation part of daily operational routines and purchasing will enhance the ability of the County of Grey to set targets for 2019.

The energy plan will be reviewed on a yearly basis, with objectives, measures and targets being part of the management consideration of each facility, part of the budget process and reported back to Council.

ATTACHMENTS

[2011 Energy Consumption and GHG Emissions Report - Housing](#)

[2012 Energy Consumption and GHG Emissions Report - Housing](#)