



Municipality of Machin Energy Plan

To meet Provincial Regulation 397/11 under the Green Energy Act, the Municipality of Machin has been inputting its energy consumption for use in the development of a document to guide Municipal efforts in improving energy efficiency. 2011 data was submitted in July 2013 and each year after submitted in the follow year. Also required is a description of previous, current and proposed measures for conserving and otherwise reducing the amount of energy consumed by the public agency's operation and for managing the public agency's demand for energy, including a forecast of the expected results of current and proposed measures. As well, the Municipality has produced this plan to identify our goals for conserving and reducing energy, proposed energy conservation measures including estimated costs and savings, a description of a renewable energy generation facility and the amount of energy produced, as well as how long each proposed measure will be in place for.

Location

The Municipality of Machin is the Hub of Northwestern Ontario. The beautiful municipality on the Trans Canada Highway and close proximity to Highway 105, is centrally located between Thunder Bay and Winnipeg. Machin is situated on the north shore of world famous Eagle Lake and is comprised of 273 square kilometers and consists of three communities, Vermilion Bay, Minnitaki and Eagle River.

History

The Municipality of Machin has a 106 year history of changing power needs. The Municipality of Machin has maintained a strong, steady community that has provided a serene comfortable lifestyle for all those who have made it their home. From heavy dependence on coal in the 1950's through many changes with hydro-electricity, oil and gas over the past fifty years the Municipality has adapted as times have changed. In the 1970's the first water treatment plant was built that feeds the town of Vermilion Bay with water by pumps. Then in 2005 the new water treatment plant was built still using the old water treatment plant as a pump house closer to Eagle Lake but still capable of

feeding the new treatment plant. The issue here is that the municipality has to pump its water twice, causing a higher use of hydro. There are no sewage services offered to the communities, all sewer systems are privately owed. The municipality has started to treat its water on low peak times for hydro. In 2008 the Municipality had an energy audit on its municipal buildings, indicating energy efficient lighting as a prime saver. The Municipality has taken advantage of many Hydro One programs since to upgrade lighting in all of its municipal buildings. In 2013 the Municipality of Machin completed an audit on our street lighting and replaced all street lights in the municipality with LED street lights.

Intent of the Plan

It is the intent of the Municipality that this plan will provide a structured and well defined strategy to focus our efforts towards energy efficiency. It has been written to meet the requirements of regulation 397/11 and will be a working document that will annually be reviewed during the budgeting process to add new projects or make changes if necessary. The plan will be used in cooperation with other plans including Council's Strategic Plan and Municipality of Machin's Asset Management Plan.

Municipality of Machin has a population of just under 1000 people and services are provided for several neighboring communities. The Municipality of Machin population has been declining and this has made it difficult to maintain the level of service that was developed for a greatly higher population; however the municipality strives to provide services to improve the quality of life for its residents as possible.

Municipal Buildings

Municipal Office
Woodland Arena
Recreation Centre
Public Works
Machin Medical Clinic
Vermilion Bay Firehall
Eagle River Firehall
Machin Water Treatment Plant
Machin Pump House
Pavilion

Vision for Municipality of Machin

Municipality of Machin endeavours to continually reduce its non-renewable energy consumption on an annual basis.

Goals

The goal of this plan is to achieve a 10% reduction in energy consumption, based on 2011 data, throughout the buildings and lighting of the township by 2020.

Objectives

- Organizational wide understanding of the importance of energy and a coordinated attack to reduce consumption.
- Renovation of buildings to incorporate energy efficiency practices.
- Continuously seeking and evaluating energy efficient and renewable energy projects for the municipality.

Previous Measures

Some of the measures completed towards energy efficiency from 2010- 2014 include:

- Replacement of lights in municipal buildings with T8 fluorescent technology.
- Replaced all streetlights with LED lighting.
- Operate facilities on low peak times to help reduce hydro costs.
- Shut off all lights during closed hours of operation.

Studies Undertaken by the Municipality

-Energy audit by Hydro One for all Municipal Buildings.

Future Measures

A heating/hvac study to review all municipal buildings, so that our building can perform better with the least amount of hydro use.

Municipal Operations

- Energy efficiency training and awareness for all Municipal Staff and signage to promote energy efficiency throughout Municipal Buildings.

Community Capacity Building

- Advertise energy efficiency ideas to the public through use of the Municipal Facebook page, website and Monthly Municipal Newsletter.

2015

- Develop a list of projects for implementation as funding becomes available.
- Improve signage throughout Municipal building about importance of turning things off when not in use.
- Develop advertising energy efficiency for municipal Facebook, website and newsletter.
- Council to request meeting with the Minister of Energy to discuss the energy costs and the importance of keeping these costs lower allowing more business to stay alive in these hard times and continue to operate recreational facilities for our residents.

2016

- Energy efficiency training and awareness for all Municipal Staff.

2017 – 2020

- This will be developed by Staff and Council on an ongoing basis.

Conclusion

The Municipality of Machin is placing high importance on energy efficiency and utilizing renewable energy. By utilizing the ideals of our staff for evaluation by experts in various fields, the municipality will work towards reducing its carbon footprint and decreasing what we pay to consume energy.

Resolution

MUNICIPALITY OF MACHIN

NO. 4

MOVED BY: _____ May, 25, 2015

SECONDED BY: _____

PECUNIARY INTEREST declared by: _____ before
Business discussed, and to be recorded in the minutes.

THAT Machin Council approve of adopting the Municipality of Machin Energy Plan.