

TOWNSHIP OF LAIRD

Conservation and Demand Management Plan Energy Consumption

2019

Beginning in the year: 2012

Laird Township is a small rural Municipality with a population of approximately 1000 persons and a full time staff of 5.

This plan is for a period of five years, reviewed annually and is due by July 1st of each year. The plan begins in 2012 and will always lag behind so that complete year end analysis can be completed.

Required Elements of the Plan are:

1. Information on the Municipalities annual **ENERGY CONSUMPTION** during the last year for which complete information is available for the full year.
2. The **GOALS AND OBJECTIVES** of the Municipality to conserve and reduce energy consumption.
3. The Municipalities proposed **MEASURES AND PLAN FOR COST SAVINGS** (estimates), proposed measures and the estimated length of time these measures will be in place.
4. A report on any **RENEWABLE ENERGY GENERATION FACILITY** operated by the Municipality. (NOT APPLICABLE)

ENERGY CONSUMPTION

Reporting Year: 2016

Facilities included in this report:

Municipal Office

Municipal office is heated with Furnace Oil and has Florescent Lighting.

1440 sq feet

35 hrs per week

9322 kWh

GHG Emissions (Kg) 3452.62908

Energy Intensity (ekWh/Mega Liters) 15.01470

Municipal Garage

Municipal Garage is heated with Furnace Oil and has Florescent Lighting.

4336 sq. feet

40 hrs per week

10,167 kWh

Oil 1 & 2 – 5300.1 litres

GHG Emissions (Kg) 361.41652

Energy Intensity (ekWh/Mega Liters) 2.34479

Laird Township Community Hall

Municipal Community Hall is heated with Furnace Oil and has Florescent Lights
2616 sq feet
15 hrs per week
8846 kWh
GHG Emissions (Kg) 12321.79245
Energy Intensity (ekWh/Mega Liters) 21.46806

Bar River Community Hall

Municipal Community Hall is heated with Furnace Propane and has Florescent Lights
2,924 sq feet
15 hrs per week
10,175 kWh
GHG Emissions (Kg) 8665.42985
Energy Intensity (ekWh/Mega Liters) 14.76592

G.W. Evoy Rink

Municipal Community rink is heated with Furnace Oil and has Florescent Lights
2016 sq feet
30 hrs per week (seasonaly)
4,629 kWh
GHG Emissions (Kg) 7,071.91465
Energy Intensity (ekWh/Mega Liters) 15.79722

GOALS AND OBJECTIVES

Reporting Year: 2016

Facilities included in this report:

Municipal Office

The objective is:

To be energy efficient, cost effective while at the same time meeting needs of the Municipality.

The goal is:

- To have routines in place to reduce energy consumption in off peak periods
- To seek funding and/or create a reserve to afford to increase energy efficiency of building
- To consider the validity and accessibility of technology to reduce consumption of energy

Municipal Garage

The objective is:

To be energy efficient, cost effective while at the same time meeting needs of the Municipality.

The goal is:

- To have routines in place to reduce energy consumption in off peak periods

To seek funding and/or create a reserve to afford to increase energy efficiency of building
To consider the validity and accessibility of technology to reduce consumption of energy

Laird Township Community Hall

The objective is:

To be energy efficient, cost effective while at the same time meeting needs of the Municipality.

The goal is:

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Bar River Community Hall

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G.W. Evoy Rink

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To be energy efficient, cost effective while at the same time meeting needs of the Municipality.

The goal is:

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To seek funding and/or create a reserve to afford to increase energy efficiency of building
To consider the validity and accessibility of technology to reduce consumption of energy

MEASURES AND PLAN FOR COST SAVINGS

Municipal Office

Technical Measures: In 2003 our new Administrative Building was constructed. Since then energy consumption has been very low. Annual monitoring of consumption takes place. Measures are in place to keep consumption low and the Municipality will investigate if consumption increases considerably.

Organizational Measures: There is no new construction in the foreseeable future, however if there was to be it is the position of the Municipality to seek the highest, most affordable and practical options in construction and equipping to meet energy conservation and efficiencies targets.

Behavioral Measures: All of staff is involved in the budgeting process and how it affects each department, therefore having an understanding of the need for saving on energy costs when able.

Staff is asked for their suggestions on how to achieve savings on energy costs and new purchases and changes are discussed with respect to their efficiency and effectiveness.

Municipal Garage

Technical Measures: In 2018 we replaced the heating source with a new propane furnace. Plan to upgrade the energy efficiency of the building. In 2010 we completed the retro fit of all florescent lighting in the garage.

Organizational Measures: There is no new construction in the foreseeable future, however if there was to be it is the position of the Municipality to seek the highest, most affordable and practical options in construction and equipping to meet energy conservation and efficiencies targets.

Behavioral Measures: All of staff is involved in the budgeting process and how it affects each department, therefore having an understanding of the need for saving on energy costs when able. Staff is asked for their suggestions on how to achieve savings on energy costs and new purchases and changes are discussed with respect to their efficiency and effectiveness.

Laird Township Community Hall

Technical Measures: In 2010 we completed the retro fit of all florescent lighting in the hall. Look at more cost effective heating and cooling options.

Organizational Measures: There is no new construction in the foreseeable future, however if there was to be it is the position of the Municipality to seek the highest, most affordable and practical options in construction and equipping to meet energy conservation and efficiencies targets.

Behavioral Measures: All of staff is involved in the budgeting process and how it affects each department, therefore having an understanding of the need for saving on energy costs when able. Staff is asked for their suggestions on how to achieve savings on energy costs and new purchases and changes are discussed with respect to their efficiency and effectiveness.

Bar River Community Hall

Technical Measures: In 2010 we completed the retro fit of all florescent lighting in the hall. In 2017 the oil furnace was replaced with a new propane furnace.

Organizational Measures: There is no new construction in the foreseeable future, however if there was to be it is the position of the Municipality to seek the highest, most affordable and practical options in construction and equipping to meet energy conservation and efficiencies targets.

Behavioral Measures: All of staff is involved in the budgeting process and how it affects each department, therefore having an understanding of the need for saving on energy costs when able. Staff is asked for their suggestions on how to achieve savings on energy costs and new purchases and changes are discussed with respect to their efficiency and effectiveness.

G.W. Evoy Rink

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CONCLUSION

In 2012 the first CDM plan was adopted. The initial plan focused on three of the five buildings in our municipality. The 2019 updated plan expands to include our other two buildings. Since the adoption of the 2012 CDM plan, improvements to heating sources have been made at the Township Garage and the Bar River Community Hall. Since those changes have been made, we have seen a decrease in the overall GHG Emissions and Energy Intensity for not only the Township Garage and Bar River Community Hall, but for all five of our buildings/operations. At this time, we do not have any specific plans for any major improvements to heating or lighting sources, however we are continually monitoring our energy use and trying to improve budget costs and energy consumption to become more efficient and effective.