



The Corporation of the Town of Bruce Mines

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CONSERVATION AND DEMAND MANAGEMENT PLAN - UPDATED JUNE 2019

The Ontario Provincial Government introduced the Green Energy Act in 2009 and established Ontario Regulation 397/11 which requires public agencies including municipalities to report on their energy consumption and greenhouse gas emissions annually beginning in 2013 (for the year 2011) and also, beginning July 1/14 develop and implement energy Conservation and Demand Management (CDM) plans which address goals/objectives/energy saving measures and renewable energy starting in 2014 and every five years thereafter.

The templates for the years 2016 and 2017 are attached and located on the town's website or in the municipal office.

The five year CDM plan follows:

Community Hall:

- 2013 new hall built:
 - energy efficient lighting (bathroom lights automatically shut off) and heating programmable cognizant of
 - 2014 town took advantage of Small Business Lighting retrofit in the basement
- goals/objectives: - *to continue to conserve energy by above features*
 - *if funding becomes available, basement walls will be insulated*

Administration Office:

- 2011 - all lighting upgraded - programmable thermostat
- goals/objectives: - *nothing foreseen in next five years*
 - *continued used of programmable thermostat and having staff cognisant of energy efficiency*
 - *new back up diesel generator installed*

Garage:

- lighting upgrades were done during the past five years
- goals/objectives: - *no new upgrades projected*

Highway Lighting:

- all new LED decorative lights installed in 2010
- goals/objectives: - *no further upgrades planned at this time*

Fire Hall:

- no upgrades to date
- goals/objectives: - *if funding becomes available, lighting would be replaced*

Water Treatment Plant:

- 2013 - changed to natural gas generator from diesel
 - 2013 - changed from electric heat to natural gas
 - 2013 - water meters installed - new billing will begin in 2015
- goals/objectives:
- *until a full year of bills are received, savings can't be determined due to continued increases in both power, gas and diesel*
 - *water meters: expectation of less water used therefore less power but won't be able to ascertain savings until bills are run a full year in 2020*

Pumping Station:

- 2013 upgrades to lighting - Small Business Lighting retrofit
- goals/objectives:
- *no upgrading planned at this time unless funding becomes available*
 - 2018 - converted heating to natural gas from electric

Health Centre:

- 2008 - new heating/cooling system installed
 - 2010 - lighting upgrades
- goals/objectives:
- *no further upgrades foreseen in next five years*
 - 2018 - six outdoor LED lights replaced under the Save On Energy program

Streetlights:

- 2017-18 to present - began changing cobra heads as old ones burnt out through the Save On Energy Program - 30 to date

RENEWABLE ENERGY INVESTIGATIONS:

Geothermal:

2011 - The town commissioned a "Geothermal Energy Recovery from Bruce Mines - Feasibility Study" - the cost to implement this technology was prohibitive to the town

Solar Energy:

2013-2014 - the town looked into solar energy on three municipal buildings and found that the cost vs revenue made the project cost prohibitive