

Laurentian University 2016 Report for Ontario Regulation 397/11 – Energy Conservation and Demand Management Plans

Overview

This document provides a brief background and summary of data reported under Ontario Regulation 397/11 – Energy Conservation and Demand Management Plans for Laurentian University. Results are presented using the Ministry of Energy’s Energy Consumptions and GHG Emissions template (for the period of 2013), along with corresponding information for all pertinent facilities operated by Laurentian University.

Background

On January 1st, 2012, the Energy Conservation and Demand Management Plans Regulation (O. Reg. 397/11) came into effect under the *Green Energy Act 2009*. Under this regulation, all broader public sector (BPS) organizations, including Universities, are required to:

By July 1, 2013 submit:

- Energy consumption and greenhouse gas (GHG) emissions for 2011
- Corresponding facility information

By July 1, 2014 submit:

- Updated energy consumption and greenhouse gas (GHG) emissions for 2012
- Updated corresponding facility information
- A five-year Energy Conservation and Demand Management (ECDM) Plan
- Detailed costs and estimated savings for all proposed Energy Conservation Measures
- Identification of benchmark facilities
- Previous energy conservation initiatives (optional)

By July 1, 2015 submit:

- Energy consumption and greenhouse gas (GHG) emissions for 2013
- Corresponding facility information

By July 1, 2016 submit:

- Energy consumption and greenhouse gas (GHG) emissions for 2014
- Corresponding facility information

Results

Table 1 below summarizes the facilities at Laurentian University along with the total indoor floor area. Future sub-metering at all facilities will not only help to track consumption, but also provide the ability to analyze energy efficiency at each building. This is discussed in the Laurentian University ECDM.

Table 1: Summary of Laurentian University Facilities

Confirm consecutive 12-month period	01-2014 to 12-2014				
Type of Public Agency (Sector):	Post-Secondary Educational Institution				
Agency Sub-Sector	University				
Organization Name	Laurentian University				
Operation Name	Address	City	Postal Code	Total Floor Area of the Indoor (m ²)	
RD Parker	935 Ramsey Lake Rd	Sudbury	P3E 2C6	13,022	
Dining Assembly	935 Ramsey Lake Rd	Sudbury	P3E 2C6	6,159	
Classroom Building	935 Ramsey Lake Rd	Sudbury	P3E 2C6	3,739	
JN Desmarais Library	935 Ramsey Lake Rd	Sudbury	P3E 2C6	11,831	
Science I	935 Ramsey Lake Rd	Sudbury	P3E 2C6	8,235	
Science II	935 Ramsey Lake Rd	Sudbury	P3E 2C6	18,867	
Animal Care Facility	935 Ramsey Lake Rd	Sudbury	P3E 2C6	512	
Arboretum	935 Ramsey Lake Rd	Sudbury	P3E 2C6	193	
Arts Building	935 Ramsey Lake Rd	Sudbury	P3E 2C6	5,391	
Alphonse Raymond	935 Ramsey Lake Rd	Sudbury	P3E 2C6	9,726	
Daycare	935 Ramsey Lake Rd	Sudbury	P3E 2C6	890	
Education Building	935 Ramsey Lake Rd	Sudbury	P3E 2C6	6,697	
Ben Avery (including Active Living Ctr)	935 Ramsey Lake Rd	Sudbury	P3E 2C6	15,823	
NMR Lab	935 Ramsey Lake Rd	Sudbury	P3E 2C6	96	
Stadium	935 Ramsey Lake Rd	Sudbury	P3E 2C6	821	
Health Sciences Building	935 Ramsey Lake Rd	Sudbury	P3E 2C6	2,868	
School of Medicine (NOSM)	935 Ramsey Lake Rd	Sudbury	P3E 2C6	6,313	
Maintenance Building	935 Ramsey Lake Rd	Sudbury	P3E 2C6	2,036	
Portables (8 - Parker, Sci 2, Ben Avery, Midwifery)	935 Ramsey Lake Rd	Sudbury	P3E 2C6	569	
Living with Lakes	935 Ramsey Lake Rd	Sudbury	P3E 2C6	2,125	
Watershed Center	935 Ramsey Lake Rd	Sudbury	P3E 2C6	518	
University College Residence	935 Ramsey Lake Rd	Sudbury	P3E 2C6	5,402	
Single Student Residence	935 Ramsey Lake Rd	Sudbury	P3E 2C6	11,364	
Married Student Residence	935 Ramsey Lake Rd	Sudbury	P3E 2C6	8,464	
West Court Residence	935 Ramsey Lake Rd	Sudbury	P3E 2C6	9,229	
Thorneloe	935 Ramsey Lake Rd	Sudbury	P3E 2C6	3,098	
University of Sudbury	935 Ramsey Lake Rd	Sudbury	P3E 2C6	10,024	
Huntington	935 Ramsey Lake Rd	Sudbury	P3E 2C6	5,238	
Laurentian University Main Campus Total				169,250	
Telegraph Building	85 Elm Street	Sudbury	P3C 1T5	436	
Workshop	51 Elgin Street	Sudbury	P3C 1T5	925	
Laurentian University School of Architecture Total				1,361	

Below, Table 2 contains a summary of Laurentian University’s energy consumption, GHG emissions and energy intensity for January 2014 through December 2014. The energy intensity data is critical for benchmarking and identifying opportunities for future energy efficiency and conservation initiatives.

Table2: Laurentian University 2014 Energy Consumption Summary

Confirm consecutive 12-month period	01-2014 to 12-2014			
Type of Public Agency (Sector):	Post-Secondary Educational Institution			
Agency Sub-Sector	University			
Organization Name	Laurentian University			
Operation Name	Energy Type and Amount Purchased and Consumed		GHG Emissions (Kg)	Energy Intensity (ekWh/sqft)
	Electricity (kWh)	Natural Gas (GJ)		
Laurentian University Main Campus	23,646,710	143,599	8,042,107	32.89
Laurentian University School of Architecture	273,602	2,343	126,727	63.10

Summary

The data contained in this report ensures compliance with O. Reg. 397/11. In addition, through measurement, reporting and planning, Laurentian University demonstrates its commitment to continuously improving campus sustainability.