

## Laurentian University 2014 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 2013 Energy Consumptions and GHG Emissions template (for the period of 2012), along with corresponding information for all pertinent facilities operated by Laurentian University.

### Background

On January 1<sup>st</sup>, 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)

### 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		01-2012 to 12-2012			
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 <sup>2</sup> )
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
Thornloe		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
<b>Laurentian University Main Campus Total</b>					<b>169,250</b>

Below, Table 2 contains a summary of Laurentian University’s energy consumption, GHG emissions and energy intensity for January 2012 through December 2012. The energy intensity data is critical for benchmarking and identifying opportunities for future energy efficiency and conservation initiatives.

**Table 2: Laurentian University 2012 Energy Consumption Summary**

<b>Confirm consecutive 12-month period</b>	01-2012 to 12-2012				
<b>Type of Public Agency (Sector):</b>	<b>Post-Secondary Educational Institution</b>				
<b>Agency Sub-Sector</b>	<b>University</b>				
<b>Organization Name</b>	Laurentian University				
<b>Operation Name</b>	<b>Energy Type and Amount Purchased and Consumed</b>		<b>GHG Emissions (Kg)</b>	<b>Energy Intensity (GJ/m<sup>2</sup>)</b>	<b>Energy Intensity (ekWh/sqft)</b>
	<b>Electricity (kWh)</b>	<b>Natural Gas (GJ)</b>			
Laurentian University Main Campus	20,320,000	133,733	8,234,044	1.14	29.52

### Summary

The data contained in this report, in addition to the 2014 Laurentian University ECDM ensures compliance with O. Reg. 397/11. In addition, through measurement, reporting and planning, Laurentian University demonstrates its commitment to continuously improving campus sustainability.