

Wednesday June 26, 2024

Conservation and Demand Management Plan

As per Ontario Regulation 25/23 please find below Lakehead University's Conservation and Demand Management Plan 2024

The annual energy consumption for the year 2023 for Lakehead University is as follows;

Thunder Bay campus	
Electrical use	24,426,076 kWh
Natural Gas	2,992,673 m ³
Orillia campus	
Electrical use	3,057,916 kWh
Natural Gas	436,197 m ³

Lakehead University will continue to monitor and manage its energy use to maintain the reductions achieved over eighteen years ago when we reduced our natural gas consumption by 45% and our electrical demand and consumption by 18%. Lakehead University goal is to maintain its leadership role in the Ontario University system as one of the lowest energy intensity campus in Ontario.

For the year 2020 (last available data from MoE) the energy intensity for the Thunder Bay campus was 4.931 eWh/HDD/sq.ft and for Orillia was 5.77 eWh/HDD/sq.ft. The GHG emissions in kg for Thunder Bay was 5,826,785 kg and for Orillia was 400,766 kg.

Lakehead University will take advantage of every opportunity to reduce our energy consumption that our current funding will allow. Unfortunately we have not been able to complete any major projects due to lack of resources.

Lakehead University Thunder Bay campus continues to operate a roof mounted 20 kW Photovoltaic (PV) system on the roof of the UC. The PV system would consist of rows of solar arrays used to generate electricity that would be used on campus to offset the kitchen's electrical demand.

Lakehead University Orillia campus' Simcoe Hall has a ground source heat pump system that has operated since 2010 when the building was completed. Our Orillia campus consists of two LEED Platinum Buildings, one LEED Silver Building as well as rented space in the downtown core.

Regards,

Hugh Briggs
Director Physical Plant