



**I Matter
At DSBN**

DISTRICT SCHOOL BOARD OF NIAGARA

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To: Warren Hoshizaki, Director of Education
From: Stacy Veld, Superintendent of Business Services and Board Treasurer
Date: June 21, 2019
Subject: **ENERGY CONSERVATION AND DEMAND MANAGEMENT PLAN 2018/2019 - 2022/2023**

The Energy Conservation and Demand Management Plan (2019) was undertaken to respond to *O. Reg. 507/18: Broader Public Sector: Energy Reporting and Conservation and Demand Management Plans*, published on January 1, 2019, requiring all public agencies to prepare an Energy Conservation and Demand Management Plan (CDM Plan).

The CDM Plan (2019) fulfills the reporting requirements of the regulation and provides the District School Board of Niagara (DSBN) with a framework to support continued energy and sustainability initiatives within the built environment. The CDM Plan (2019) further identifies opportunities for continued energy conservation measures and sustainability initiatives to build on existing plans and to further respond to policies identified in the Board's *Strategic Plan*. Implementation of all initiatives will be subject to future budget approvals.

All energy efficiency and sustainability projects have been overseen by a Facilities Department team including:

Bob Dunn, Manager of Projects and Maintenance Facility Services
Bert Poort, Facility Renewal Administrator
Graeme McKenzie, Energy Coordinator

The current CDM Plan (2019) evolves from the previous CDM Plan (2013) produced in July 2013 which identified a goal of a 5% reduction in energy intensity (ekWh/ft²) across the DSBN. This goal was reached and exceeded by August 2018, ultimately reducing Board-wide energy use by 8.7%.

These energy savings have produced not only utility cost savings over the past five years but have also led to the more efficient operation of building equipment, reducing the need for long-term maintenance and operations costs. Most importantly, has been the improvement to facility services such as improved thermal comfort in learning environments and additional capabilities such as manual control of light levels for staff and student comfort and special school events.

To satisfy the additional requirements of the regulation, energy consumption data for the 2017/2018 fiscal year has been compiled and reported to the Province and published on the DSBN's website meeting the July 1st, 2019 deadline. These statistics provide baseline information for on-going energy efficiency programs and projects and serve as a reference point to assist decision making regarding operational activities, behaviours and input into the capital planning program where applicable.

An additional requirement of the regulation involves a description of previous, current and proposed measures to reduce energy consumption. This has been completed ahead of the July 1, 2019 deadline, and will be updated every five years thereafter. Staff will continue working on implementing the CDM Plan's (2019) recommendations as timelines and resources are confirmed.

References to facility improvements will be subject to future budget deliberations and will be assessed on a case-by-case basis to determine return on investment. This will also include a regular review of the status of these facilities in current and future inventories, to reflect surplus and disposition activity. As identified in the CDM Plan (2019), energy efficiency projects thus far have resulted in a simple payback to the DSBN of 4.7 years. Roughly translated, these programs have resulted in an annual cumulative cost avoidance of over \$300,000.

Future energy conservation measures and sustainability initiatives as identified in the CDM Plan (2019) will be undertaken subject to the annual approval of capital and operating budgets with the internally-set goal of meeting an additional 5% reduction in energy intensity over the 2018/2019 - 2022/2023 period. There is no financial impact associated with this report. The Board of Trustees and Senior Administration will consider recommended implementation opportunities in future operating and capital budgets and forecasts.

The Conservation and Demand Management Plan 2018/2019 - 2022/2023 has been developed to address the fiscal, societal, and environmental costs and risks associated with energy consumption. Proper energy management will allow the DSBN to display leadership, improve the delivery of services, and enhance the overall quality of life within the community and for the student services provided.

Respectfully submitted,



Stacy Veld
Superintendent of Business and Board Treasurer

Attachment:

District School Board of Niagara Energy Conservation and Demand Management Plan 2018/2019 - 2022/2023