



**COMMITTEE OF THE WHOLE (PUBLIC)
Report No. 19-025**

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Multi-Year Energy Management Plan 2018-2021

Key Contact: Michael Carson, Chief Financial Officer, ext. 8881

PURPOSE:

1. To provide an update on the Multi-Year Energy Management Plan for 2018-2021.

CONTEXT:

2. One of the major findings of the Ministry of Education's operational review of the Facilities department was that management should establish a multi-year energy management plan that incorporates measures to be implemented and the tools to monitor and manage the plan.

The energy management plan, an annually updated three-year plan, outlines the main factors for both energy management and energy conservation for the District. The Multi-Year Energy Management Plan 2018-2021 (attached as Appendix A), complements the Facility Renewal Plan (FRP) and School Condition Improvements (SCI) projects by addressing energy conservation initiatives for the District's existing buildings that may otherwise not be included as renewal priorities. New buildings and additions are designed to incorporate energy efficiency and conservation, wherever possible.

KEY CONSIDERATIONS:

3. *The Green Energy Act/Electrical Act of Ontario* and Ontario Regulation 397/11, Energy Conservation and Demand Management Plans require public sector organizations to produce an energy conservation and demand management (CDM) plan. The OCDSB submitted a five-year CDM plan in 2014 to meet this legislative requirement. The CDM plan describes methodology, energy management initiatives and implementation costs that are consistent with our District's Multi-Year Energy Management Plan 2018-2021. A new five-year CDM plan will be submitted in July of 2019 to meet the District's legislative requirements.

RESOURCE IMPLICATIONS:

4. The current multi-year energy plan for 2018-2021 commits to investments into energy efficiency projects estimated at \$5,727,000 over the next 3 years.

The implementation cost is to be funded over the next 3 years (including the current year) at approximately \$1.9 million per year for projects listed within Report 19-006, Facilities Renewal Plan and School Condition Improvement (FRP/SCI) Project Plan 2018-2019, along with savings in the utilities budget. The benefits attributed to these expenditures are realized in the school operations budgets through a reduction in utilities costs.

The calculated cost avoidance from energy saving initiatives in fiscal year 2018 is \$2,544,328 and the cost avoidance since 2009 in utilities to date is \$8,738,631. (see item 16 in Appendix A and Appendix B).

Revenues generated from the solar Feed-in-Tariff (FIT) program from 2010 to 2018 total \$1,936,936 and should continue at an annual rate of \$369,115 through fiscal year 2020-2021 (see Appendix C).

The government and utilities incentives received to date, from energy saving initiatives, totals \$821,753 in revenue.

COMMUNICATION/CONSULTATION ISSUES:

5. Over the years, there has been a focus across the District and the province regarding energy management and energy conservation. The District has been involved with several agencies and organizations to develop long and short term plans to reduce energy consumption, reduce greenhouse gas emissions and develop best practices on conservation and waste reduction.

The Facilities energy management group has been collaborating with the Environmental Education Steering Committee to ensure that energy and environmental aspects are incorporated in the curriculum.

Facilities staff is well represented on the Ontario Association of School Board Officials' (OASBO) Operations, Maintenance and Construction (OMC) committees, OMC's Energy Conservation sub-committee and with the Ministry of Education.

On 1 July 2013, public reporting of the District's utility consumption data was completed, reported to the Ministry of Energy, and posted on the District website to meet the requirements of the *Green Energy Act Part 1*. On 1 July 2014, the District updated the utility consumption data, as required by the Ministry of Energy and Climate Change, developed the five-year plan required for the Part 2 reporting. The report reflects investments, initiatives and the expected reductions in energy consumption. The annual utility data and multi-year plan is available to the public through the District website as required by the Ministry of Energy and Climate Change.

STRATEGIC LINKS:

6. Enhancing operational practices to effectively and responsibly manage human and financial resources in support of students, as well as smart energy use and sound environmental practices are activities that contribute to the District's goal of stewardship.

GUIDING QUESTIONS:

7. The following questions are provided to support the discussion of this item by the Committee:
 - Why is the Multi-Year Energy Plan important to environmental sustainability?
 - How does this plan help the District to achieve reductions in energy and greenhouse gas emissions?
 - How does the District foster environmental stewardship in students and staff?

Michael Carson
Chief Financial Officer

Camille Williams-Taylor
Director of Education and
Secretary of the Board

APPENDICES

Appendix A Multi-Year Energy Management Plan 2018-2021
Appendix B Cost Avoidance Report
Appendix C Fit and Micro Fit Solar Account Summary
Appendix D Energy Management Initiatives Plan