



# Senior management approval

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# Part 1: Introduction

The education sector is unique in that a board's asset portfolio can experience important changes that crucially impact a board's energy consumption over a five year period. The following is a list of some of the most common variables and metrics that change in the education sector:

**Facility variables:**

**Construction**

**Year built**

**Number of floors**

**Orientation of the building**

**Building Area**

**Major additions**

**Sites sold/closed/demolished/leased**

**Portables**

š **Installed**

š **Removed**

š **Areas under construction**

**Equipment/Systems**

**Age**

**Type of technology**

**Lifecycle**

**Percentage of air conditioned space**

**Site Use**

**Elementary school**

**Secondary school**

**Administrative building**

**Maintenance/warehouse facility**

**Community Hubs**

**Shared Site Use (For example: two or more boards share common areas and/or partnered with a municipality)**

**Swimming pools**

**Libraries**

**Lighted sports fields**

**Sports domes**

**Other Variables:**

**Programs**

**Childcare**

**Before/After School Programs**

**Summer School**

**Community Use**

š **Outdoor ice rinks**

§ **Occupancy**

**Significant increase or decrease in number of students**

**Significant increase in the hours of operation**

**New programs being added to a site**

**Air Conditioning**

**Significant increase in air-conditioned space**

**Portables**

## **Part 2 Results from the past 5 years (2019-2023)**

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**In consultation with the Office of the Chief Medical Officer of Health, the Ministry of Labour; Immigration, Training and Skills Development and others, school boards have been expected continue to build on established practices to optimize air quality to support healthy and safe learning environments for students and staff.**

**Many of these new recommendations/requirements can impact utility consumption. For instance, the implementation of standalone HEPA filtration units has impacted energy consumption, primarily electricity.**

### **31 HEPA filtration units at YCDSB**





- 4 Our Lady of the Annunciation CES**
- 5 Prince of Peace CES**
- 6 St. Bernadette CES**
- 7 St. Clare CES**
- 8 St. Monica CES**
- 9 St. Patrick (Schonberg) CES**
- 10 York Catholic Education Centre (GHSP/Conventional - boiler supplements heat pump loop)**

**YCDSB does not utilize solar thermal preheat in its facilities at this time.**

## **Part 3 The plan for the next 5 years (2024-2029)**

## **2 Energy efficiency measures**

**For the Board's relevant projects over the next five years, please refer to workbook**

## **3 Other information**

### **3.1 Environmental programs**

**In Fiscal Year 2022 to 2023, schools within the Board participated in environmental programs such as EcoSchools. YCDSB schools have been active participants in EcoSchools Canada**



## 4 Appendix: Investments in Energy Efficiency between Fiscal Year 2020 and Fiscal Year 2023

HVAC	All Saints	Replace atmospheric boilers	\$398,500.00	100%
HVAC	Divine Mercy	Replace atmospheric boilers	\$176,100.00	100%
HVAC	St. Emily	Replace atmospheric boilers	\$189,900.00	100%
HVAC	Various schools	Coil clearing	\$235,400.00	100%
HVAC/BAS	Various schools	ALC	IAQ separate funding	100%
HVAC/BAS	Various schools	Delta Controls	IAQ separate funding	100%

**Fiscal Year 2021**



**Fiscal Year 2022**




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