



# Sustainable educational spaces

A three-time **Savings by Design** participant, Ottawa Catholic School Board (OCSB) was recently named one of Ontario's Top Energy Performing Boards by Sustainable Schools, ranking third out of 72 boards.

Participating in **Savings by Design** has been a key part of OCSB's long-term energy-management strategy. The three schools that have completed the program are now a model for the board's other new construction projects, setting a green standard in line with OCSB's sustainability vision.

## Energy-smart schools

Each school is a single-storey, 50,000 square foot building with a gymnasium that is used by the community in the evenings.

As builder, developer and fiscally responsible board, OCSB is in a unique position: their design decisions are directly correlated to their annual operating budgets.

## Introducing innovative technologies

During the **Savings by Design** workshops, the costs and energy-saving potential of different HVAC systems, exterior wall and roof insulation options, windows, lighting, demand control ventilation and more technologies were compared.

"The **Savings by Design** program provided a risk-free environment for exploring sustainability innovation as well as an opportunity to test concepts through energy modelling," said Gerry Sancartier, Property and Operations Officer, OCSB.

## Key project enhancements

- Improved boiler thermal efficiency to 85%
- Enhanced wall and roof insulation
- Replaced the windows with a Solar Heat Gain Coefficient of 0.54 and a U-value of 0.30
- Upgraded rooftop unit furnace from staged to modulating burner

"The best part of Savings by Design is that the money saved through energy efficiencies can be spent on school resources and, ultimately, directed back to the classroom."

Gerry Sancartier,  
Property and Operations Officer,  
OCSB

## By the numbers

**\$30+** million  
in avoided energy costs  
since 2004

**30%**  
average annual  
electricity savings

**25%**  
average annual  
natural gas savings

# Start designing sustainable buildings with expert help

**Savings by Design** gives your project team free access to industry experts, technical tools and financial incentives to help you build high-performance, resilient and sustainable buildings.

**Free expertise and incentives**

value up to

**\$60,000\***

## Key steps to efficient, resilient design

### Step 1

1 – 2 hours | No cost

#### Visioning session

We'll meet with your project lead, sustainability manager and a design team member to:

- Help define and prioritize project requirements and sustainability priorities.
- Determine which team members and external experts should attend the workshop.

### Step 2

1 day | No cost

#### Integrated design process workshop

Your team will strategize with energy modellers and sustainable design experts to maximize your building's energy and environmental performance.

- An energy model will be developed as well as a final report summarizing the options discussed and recommendations.
- Facilitated by Sustainable Buildings Canada.
- A \$30,000 value.\*\*

## Rewards for building above code

After completing the workshop, you're eligible for additional incentives based on the performance of your building.

### Energy simulation modelling incentive

**\$15,000**

Earn incentives when you complete a pre-construction certified energy model that shows your building will be 15 percent above current code.

### Commissioning incentive

**\$15,000**

Earn additional incentives by confirming your building is 15 percent above code with a post-construction certified energy model, performed by a professional modeller.

To get the most out of your next project, contact **Mary Sye, Energy Solutions Advisor.**

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\*Projected savings based on energy modelling simulations from the Savings by Design Integrated Design Process workshop. \*\*This has no cash value. HST is not applicable and will not be added to incentive payments. Visit [savingsbydesign.ca](http://savingsbydesign.ca) for details. To qualify for the program, your project must be located in the Enbridge Gas Inc. service area. If a participant doesn't complete construction of a new commercial property in the Enbridge Gas service area that exceeds 15 percent of the OBC's energy performance requirement within five years of completing the integrated design process workshop, they're ineligible for performance incentives. During that time, builders are expected to design and construct at least one new construction building based on resulting recommendations. In order to receive incentive payments, you must agree to all program terms and conditions, fully participate in all stages of the program and meet all program requirements. © 2020 Enbridge Gas Inc. All rights reserved.