

Building well-being

The new South Niagara Hospital, just off Queen Elizabeth Way, is aiming to become Canada's first WELL®-certified health care facility, integrating energy-saving strategies with innovative features that help improve patient care, staff productivity and overall health.

Where well-being and efficiency align

With an aging population and 14 million visitors a year, Niagara has a critical need for a modern facility that provides both 24-hour emergency services and complex and continuing care.

"There's direct correlation between building design and occupant health," said Cliff Harvey, Niagara Health's Chief Planning Officer. "**Savings by Design** is helping us achieve our goal of becoming a WELL®-certified facility, where well-being, sustainability and efficiency align."

Doubly efficient as the program goal

During the full-day **Savings by Design** workshop, a range of design alternatives were explored, such as adding energy recovery ventilators (ERVs) to make the ventilation system (one of the most energy-intensive areas) more efficient.

The energy modelling process included in the workshop showed that the hospital's energy performance is expected to be 32.1 percent better than the Ontario Building Code, doubling the goal set by the program.

Bottom-line benefits

Designing a healthier, more sustainable environment helps hospitals achieve the "Triple Aim": improving health outcomes, enhancing the patient and staff experience and lowering operational costs, which allows more resources to be directed to patient care.

Potential project enhancements

- Condensing boiler with 96 percent efficiency
- Heat recovery chiller to reheat spaces
- ERVs in patient rooms, offices, lobby
- Fan static pressure reduced by 50 percent

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Cliff Harvey, Chief Planning Officer,
Niagara Health

By the numbers

Projected GHG reduction*

5,187,199 kg CO₂e

Projected better energy performance than Ontario Building Code

32%

108,000 square metres

50 acre site

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.**

 savingsbydesign.ca

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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 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.