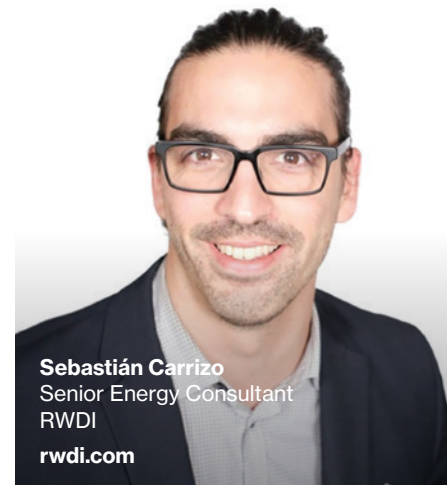




5 benefits of energy modelling

Specialty consulting engineering firm RWDI is dedicated to sustainable innovation. They've worked on award-winning structures around the world and at home, including the Elementary Teachers' Federation of Ontario Headquarters, Toronto's first LEED-NC Platinum certified building. Here, Argentina expat and Senior Energy Consultant **Sebastián Carrizo**, M. Eng., shares his experience as an energy modeller with the **Savings by Design** program.



Sebastián Carrizo
Senior Energy Consultant
RWDI
rwdi.com

1 Start with a sandbox

Think of energy modelling as a digital sandbox, allowing you to play with your building before it's built. Design teams can experiment with different building characteristics, quickly and easily exploring their impact on building performance. With this rapid analysis, we can identify the best opportunities for the project. This kind of experimentation just makes design better.

2 Size doesn't matter

Modelling is not tied to the size of the project. Energy modelling can provide insight into the performance of buildings of any size and shape, from skyscrapers to single-family homes. With the right design team, every building can be high performance.

3 Join the community

One of my favourite aspects of the program is that it brings together a team of multi-disciplinary subject-matter experts with decades of experience in high-performance building design. When a project team joins the community, they tap into this resource of enthusiastic and creative building design professionals.

4 Sustainability goes beyond energy efficiency

While the Savings by Design workshop is focused on reducing energy use and carbon emissions, we know that building operators have economic considerations too. An energy model can help projects strike the right balance between energy efficiency and operating costs. There's a place for electricity and a place for natural gas technologies, and we can help you understand where they meet for your project.

5 High performance is a mindset

At Savings by Design workshops, everyone comes to the table with an open mind, ready to learn—even those who may have been doing things the same way for decades. Energy modelling provides the quantifiable data to confirm or challenge the value of different building-design options. The program can give a design team the confidence to break out of their standard mould and strive for high-performance building design.

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.