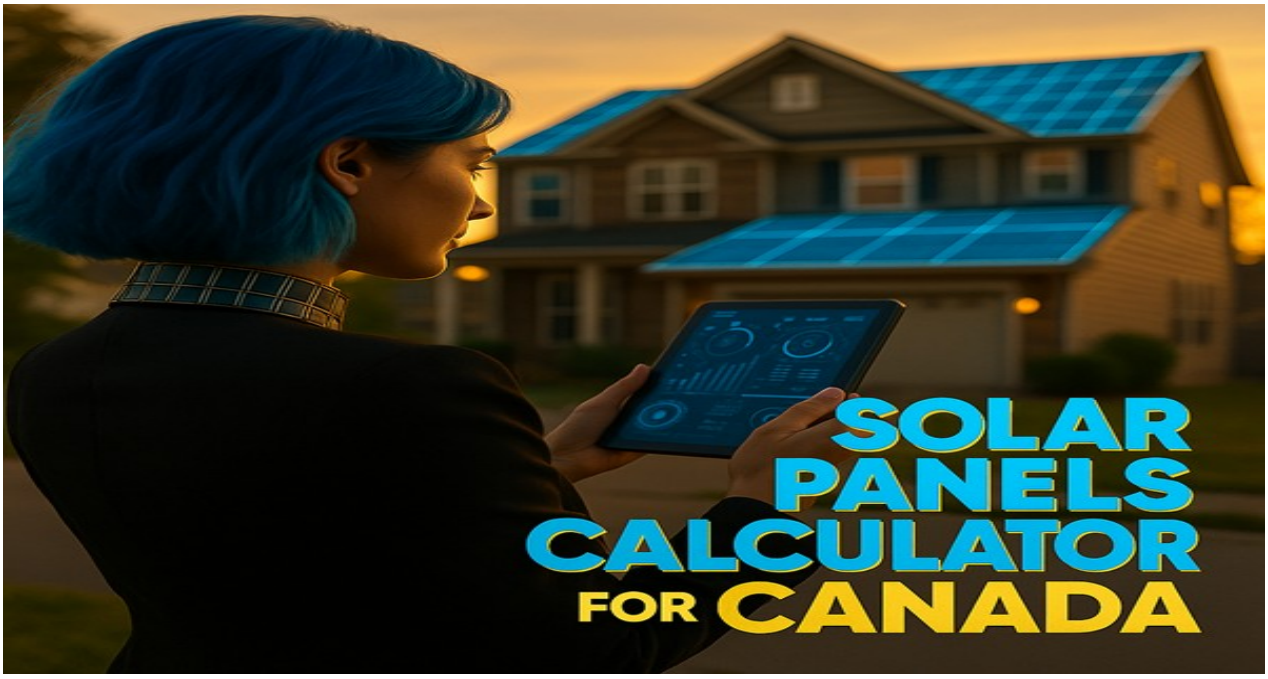



# SEIC Launches  AI Solar Panels Calculator, Empowering Canadians with Instant, Transparent Solar Analysis

*August 15, 2025*

Halifax, Nova Scotia - August 15, 2025 -

SolarEnergies.ca, a leading Canadian resource for renewable energy information, today announced the launch of an innovative solar panel calculator designed to bring unprecedented clarity to homeowners considering a move to solar power. The new tool leverages artificial intelligence and advanced data modeling to provide a free, instantaneous, and highly personalized assessment of a property's solar potential, a process that has traditionally been a point of confusion and frustration for many Canadians. By requiring only a street address to begin, the platform removes significant barriers to entry, offering a comprehensive report that details system size, costs, savings, and environmental impact in under a minute.

The decision to develop the tool was driven by a recognized need for greater transparency in the preliminary stages of solar adoption. For years, the initial step for many homeowners involved navigating complex quotes and generalized online estimators that often lacked the precision needed for a major financial decision. Vitaliy Lano, founder of SolarEnergies.ca and a home sustainability expert with over a decade of experience,

identified this gap as a critical obstacle for many families.

"For too long, the first step into solar has been a confusing one, filled with vague numbers and unclear breakdowns," Vitaliy Lano stated. "People deserve to see their own data, on their own terms, without a sales pitch. We built this tool to replace uncertainty with clarity and give every Canadian homeowner the power to make an informed decision based on their specific situation. This is about accessibility and empowerment."

The calculator's process begins by using AI to analyze high-resolution satellite imagery of a user's property. This initial step automatically determines several critical factors that are essential for an accurate solar production forecast. The system calculates the total usable roof area, identifies the orientation of each roof plane, and, most importantly, estimates the precise angle or pitch of the roof. This single piece of data significantly enhances the accuracy of the final report.

Lano commented on the importance of this technical detail. "The angle of your roof is one of the most vital elements in a solar calculation. It determines how directly sunlight will strike the panels throughout the year. A generic estimate might assume an 'optimal' angle, but your roof isn't generic. Our calculator uses the actual angle of your roof to simulate energy production, which leads to a much more realistic forecast." He expressed that this level of detail is what builds genuine confidence in the results.

The platform integrates this geometric data with localized solar irradiance information from the National Renewable Energy Laboratory's (NREL) PVWatts service, the same standard used by professional solar installers and engineers. The result is a highly accurate estimate of how many kilowatt-hours (kWh) a solar PV system could generate on that specific rooftop. Once this production potential is established, the user is prompted for one simple piece of information: their average monthly electricity bill. This allows the system to recommend an appropriately sized solar array designed to offset their annual energy consumption.

The report generated by the SolarEnergies.ca calculator is designed for maximum clarity. It presents a full financial breakdown, including the estimated gross cost, the specific federal and provincial grants the property pre-qualifies for, and the final net cost. It also features a 25-year savings forecast, a simple payback period calculation, and key metrics on the positive environmental impact, such as the total CO? offset.

A unique feature that sets the tool apart is its interactivity. Users can toggle between different tiers of equipment, such as "Good," "Better," and "Best" solar panels, and instantly see how the choice affects the upfront cost and long-term savings. Lano suggested that this feature was developed to digitize the consultation process.

"We wanted to give people the ability to explore their options freely," he explained. "You can see for yourself how investing in a higher-efficiency panel might change your payback period by a year or increase your

lifetime savings by thousands. Furthermore, users can adjust financial assumptions, like the projected rate of electricity price inflation, to test the numbers for themselves. It?s a level of control and transparency that we believe should be standard."

The final output includes a downloadable PDF quote that summarizes the entire analysis, providing homeowners with a detailed document they can use for their records or to compare with formal quotes from solar installers. This focus on providing tangible, user-owned information is central to the mission of SolarEnergies.ca.

"This tool is a starting point for a conversation, whether it's with your family or with a professional solar installer," Lano added. "It's about showing people that solar is not only achievable but is a practical, powerful financial decision for their future. When you can see the 25-year savings chart for your own home, based on your own roof and your own energy use, the potential becomes real. Our slogan is 'Canada goes solar,' and we believe transparent information is the key to making that happen."

The solar panel calculator is now live and available for free use by all Canadian homeowners.

SolarEnergies.ca is a Canadian resource dedicated to providing clear, honest, and helpful guidance on residential solar energy. Founded by Vitaliy Lano, a home improvement and sustainability expert with 12 years of experience, the platform aims to make green living accessible to all Canadians. Through in-depth reviews, practical guides, and innovative tools, SolarEnergies.ca connects homeowners with the right solar solutions, breaking down complex topics into real, relatable insights. The mission is to empower Canadians to make informed decisions about their energy future.

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For more information about Solar Energies In Canada SEIC, contact the company here:Solar Energies In Canada SEICVitaliy Lano2368680609admin@solarenergies.ca

## Solar Energies In Canada SEIC

*SEIC is Canada?s platform for solar energy insights, dedicated to making green living accessible and practical. From detailed guides to savings calculators, SolarEnergies.ca empowers Canadians to make informed decisions for a sustainable future.*

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