

# How many photovoltaic panels does Canadian Solar produce per year



## Overview

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On average, Canada has a solar potential of about 1,152 kWh/kWp/year, for every kilowatt of solar panels installed. Canada's total wind, solar and storage installed capacity grew 46% in the past 5 years (2019-2024), including nearly 5 GW of new wind, 2 GW of new utility-scale solar, 600 MW of new on-site solar, and 200 MW of new energy storage. The company is headquartered in Guelph, Ontario, although most of its photovoltaic module manufacturing facilities are located in China. Saskatchewan and Alberta have the highest solar PV generation potential (6. The Claresholm Solar PV farm has 477K panels and powers 33K households in Alberta. The photovoltaic (PV) potential represents the expected lifetime average electricity. Today, Canada is home to 196 major solar energy projects, the largest of which are found in Alberta and Ontario.

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### Solar Power in Canada: A Closer Look at the Statistics



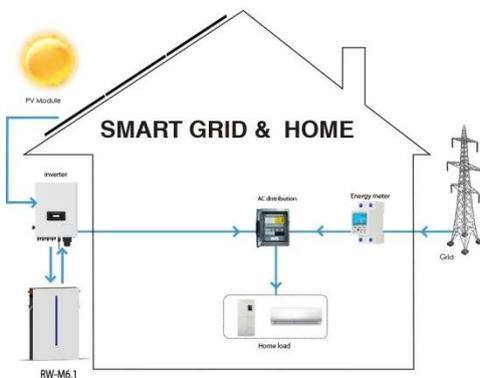
Average solar output can vary by region: in winter months like December, arrays may generate around 45-50 kWh per kW installed, while in spring and summer, that number can rise to more than 120

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### By the Numbers

Canada's total wind, solar and storage installed capacity grew 46% in the past 5 years (2019-2024), including nearly 5 GW of new wind, 2 GW of new utility-scale solar, 600 MW of new on-site solar,

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### Solar Energy Maps Canada 2023 (Every Province)

Question 1: "How much energy (in units of kWh) can a solar power system (in units of kW) produce per year (yr) in my region?" Answering this question is easy - simply look at the value on ...

## National Survey Report of PV Power Applications in Canada 2023

Canada reached a cumulative installed PV capacity of 5.33 GWac by the end of 2023, marking a 23% increase over the previous year. Ontario and Alberta accounted for 57% and 35% of the national ...



## Photovoltaic potential and solar resource maps of Canada

Lifetime average annual PV potential values for most systems should be within about 10% of the values presented here.

## Solar Power in Canada: 12 Facts

Did you know that Canada is home to 196 major solar power projects and over 43,000 solar photovoltaic installations on commercial, residential and industrial buildings in the country? ...



## Renewable Energy Statistics in Canada , Made in CA

Bioenergy is produced at seventy power plants in Canada. In 2021, 6% of



Canada's energy was produced at wind farms. Canada's solar power capacity is roughly 15 times bigger than it ...

## 12 Solar Energy Statistics in Canada (2026 Update)

While most of Canada's solar energy capacity does, indeed, exist in the form of full-fledged projects, the number of smaller, independent farms is growing. Today, almost 30% of the solar ...



## Solar Energy in Canada: PV Potential Rankings (Updated 2026)

On average, Canada has a solar potential of about 1,152 kWh/kWp/year, for every kilowatt of solar panels installed. This measure is calculated using the average solar insolation, ...

## Canadian Solar

The most important key figures provide you with a compact summary of the topic of "Canadian Solar" and take you

straight to the corresponding statistics.  
Feel free to contact us ...



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