

Annual solar power generation wattage in Toronto Canada





Overview

In determining the solar system size, the SolarTO Map estimates that one kW of solar will generate 1,150 kWh per year, based on average solar radiation in Toronto. How much solar power does Toronto use a day?

Seasonal solar PV output for Latitude: 43.6547, Longitude: -79.3623 (Toronto, Canada), based on our analysis of 8760 hourly intervals of solar and meteorological data (one whole year) retrieved for that set of coordinates/location from NASA POWER (The Prediction of Worldwide Energy Resources) API: Average 6.16kWh/day in Summer.

How much solar energy does Canada produce?

National Average Solar Energy Production Potential: 1133 kWh/kW/yr This page contains solar energy maps, along with monthly solar production estimates, for every province and territory in Canada.

How many solar panels are there in Canada?

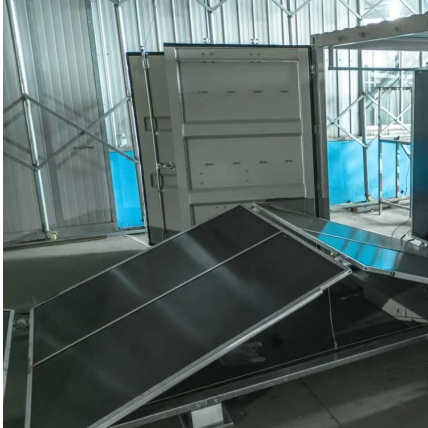
Canada only ranks 22nd for installed solar energy capacity. There are 48K solar energy installations in Canada. Saskatchewan and Alberta have the highest solar PV generation potential (6.5–7.15 kW.h/m²). Ontario makes up for 98% of Canada's solar power generation. The Claresholm Solar PV farm has 477K panels and powers 33K households in Alberta.

How many wind and solar energy resources are there in Canada?

Canada has only begun to scratch the surface of its vast and untapped wind and solar energy resources. At the end of 2024, we had 24 GW of wind energy, solar energy and energy storage installed capacity across Canada. For more information on the current state of the industry, growth and forecasts, see CanREA's most recent annual data release:



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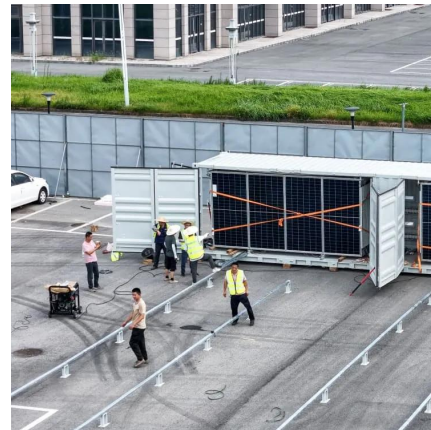


[Photovoltaic potential and solar resource maps of Canada](#)

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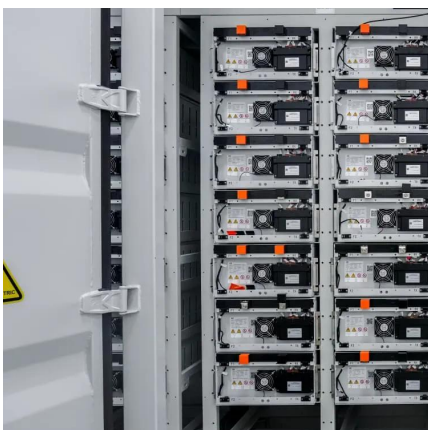
[Solar Energy in Canada: PV Potential Rankings \(Updated 2025\)](#)

Aug 14, 2025 · Find out where your province and city are ranked in terms of solar energy potential. With charts and maps you will easily be able to make comparisons across Canada.



[How much power can it produce? , Solar Powered in Toronto](#)

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