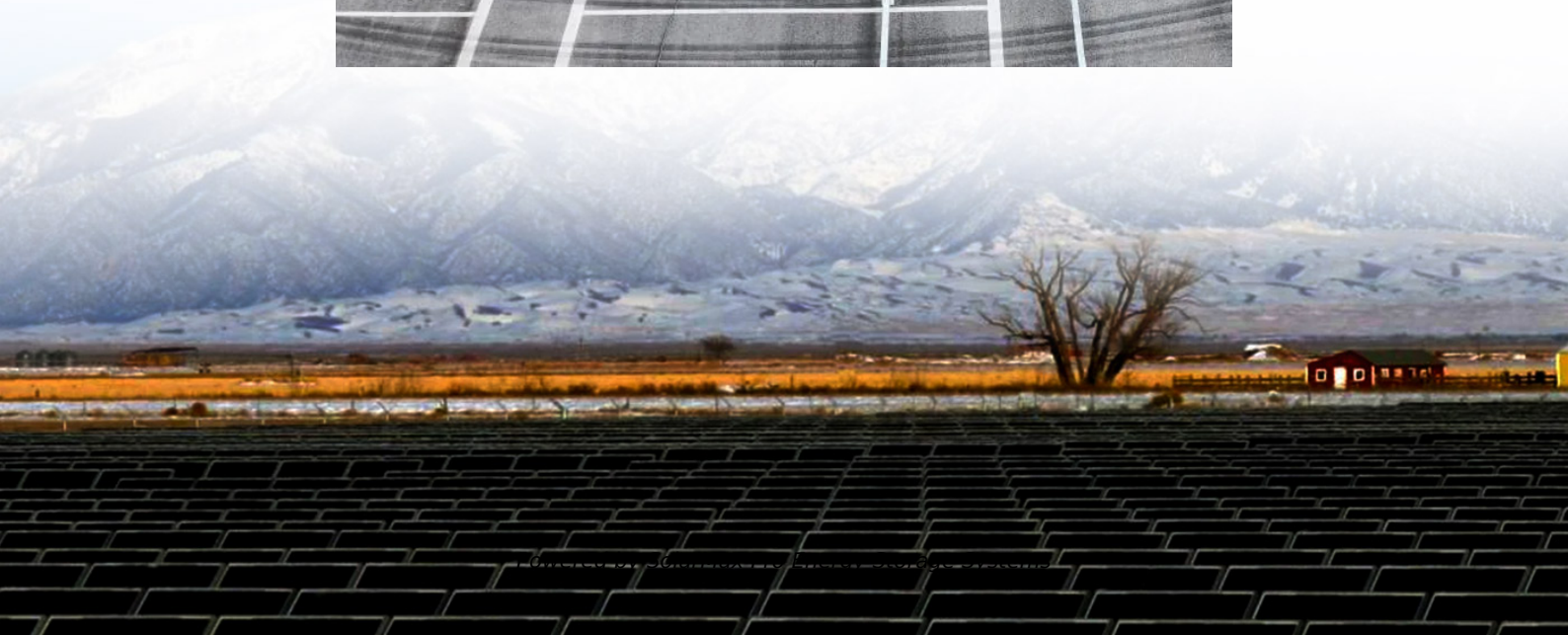


# **Canada's GW-scale solar power generation**





## Overview

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Canada's total wind, solar and storage installed capacity is now more than 24 GW, including over 18 GW of wind, more than 4 GW of utility-scale solar, 1+ GW on-site solar, and 330 MW of energy storage. Canada's solar energy capacity (utility-scale and onsite) grew 92% in the past 5 years (2019-2024). How much solar power does Canada have?

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.

How much solar energy will Canada have in the next 5 years?

Solar energy capacity increased by 92% in that 5 year period. Canada is estimated to install at least 10 GW of new wind, solar, and storage capacity by 2030.

How much solar energy does Canada have in 2022?

According to the Canadian Renewable Energy Association (CanREA), "Canada has only begun to scratch the surface" of its substantial wind and solar resources. By the end of 2022, there was nearly 15 gigawatts (GW) of operating wind energy capacity and over 4 GW of major solar.

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:.

How much solar does Canada have in 2024?

Canada deployed 314 MW of solar in 2024, according to figures from the Canadian Renewable Energy Association. Vittoria Bellissimo, CEO of the



association, told pv magazine that the figure compares to 765 MW of added solar in 2023 and takes Canada's cumulative capacity to more than 4 GW of utility-scale solar and over 1 GW of on-site solar.

Is solar power growing in Canada?

Solar power is growing particularly fast, says CanREA – over a quarter of all the installed capacity in Canada was added in 2022. Western Canada is leading the charge, accounting for 98 per cent of total growth, with Alberta adding 1.39 GW and Saskatchewan adding 387 MW of installed capacity in 2022.



## Canada s GW-scale solar power generation

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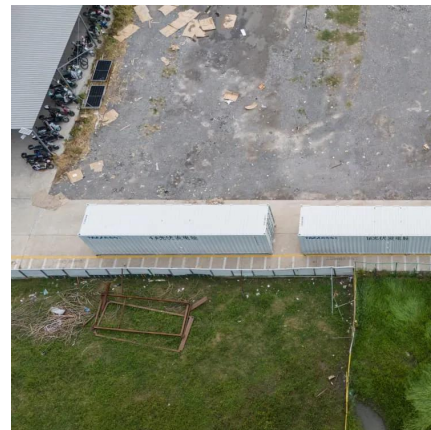


### New report indicates how Canada increased clean energy ...

Canada now has a total installed capacity of more than 21.9 GW, including 20.4 GW of utility-scale wind and solar energy, 1.2 GW of on-site solar and 356 MW / 539 MWh of ...

### [New report indicates how Canada increased clean ...](#)

Canada now has a total installed capacity of more than 21.9 GW, including 20.4 GW of utility-scale wind and solar energy, 1.2 GW of on-site ...



### [CER - Canada's Energy Future 2021 Fact Sheet : ...](#)

Canada's Energy Futures 2021 Fact Sheet: ElectricityClick to enlarge Description  
Description: This stacked area chart shows electricity generation capacity by ...

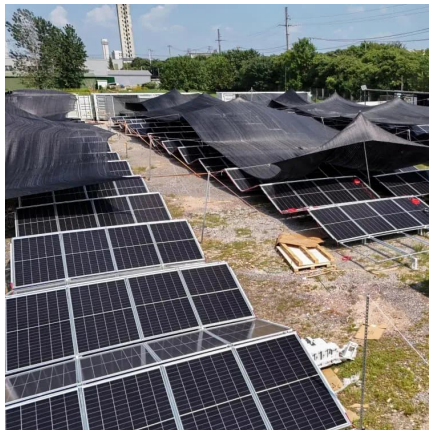
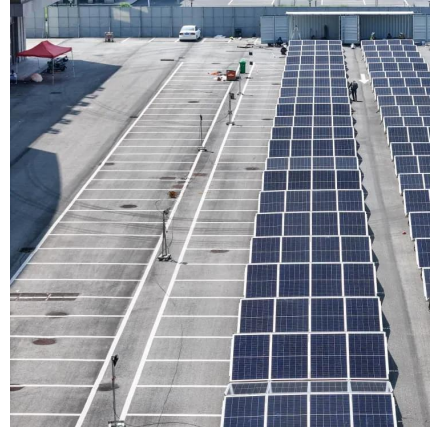
## Canadian Solar Reports Fourth Quarter and Full Year 2023 Results

It is a leading manufacturer of solar photovoltaic modules, provider of solar energy and battery





energy storage solutions, and developer of utility-scale solar power and battery ...

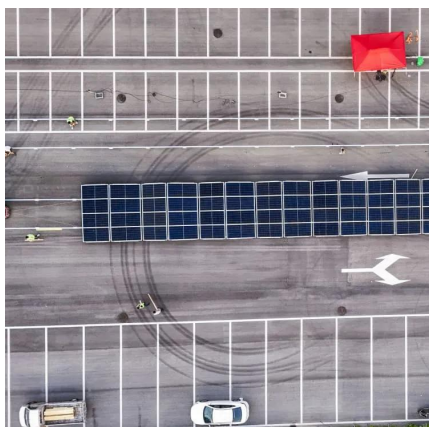


### Canadian Solar Sector Saw Marked Growth in 2022

"Canada now has an installed capacity of more than 19 GW of utility-scale wind and solar energy, having added more than 1.8 GW of new generation capacity in 2022," says ...

### **Canada's Cumulative Installed Solar PV Capacity Exceeds 5 GW**

The Canadian Renewable Energy Association (CanREA) says Canada's solar PV energy capacity grew by over 92% during the 2019-2024 period with the addition of 2 GW ...



### New Solar Plants Expected to Support Most U.S.

We expect U.S. utilities and independent power producers will add 26 gigawatts (GW) of solar capacity to the U.S. electric power sector in 2025 ...



## Canada's clean energy sector grew by 10.5% in 2022

Canada's wind and solar industry accounted for approximately 4,462 person-years of employment in 2022, having grown by 86 per cent this ...



## **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 ...

## CER - Market Snapshot: How important are new power ...

Release date: 2024-12-11 Canada's Energy Future 2023 (EF2023) 1 projects that achieving an electricity system that grows rapidly and decarbonizes will require many clean power ...



## **Canada's wind, solar, and energy storage capacity grows 46% in ...**

February 19, 2025 - The Canadian Renewable Energy Association (CanREA) announced that Canada's wind, solar, and energy storage sectors have grown by 46% in the last five years, ...



## The Outlook for Global Solar Energy Continues to Be Bright

Policymakers in some of the world's largest economies are reducing support for solar power generation. Even so, Goldman Sachs Research expects rapid growth in the ...



## Study Confirms Canada Needs More Solar: A Call for Utility ...

With solar costs plummeting by 90% over the last decade, the potential for large-scale solar has never been greater. This article unpacks the findings of SFU's groundbreaking report and ...

## [12 Solar Energy Statistics in Canada \(2025 Update\)](#)

There are 48K solar energy installations in Canada. Saskatchewan and Alberta have the highest solar PV generation potential (6.5-7.15 kW.h/m<sup>2</sup>). Ontario makes up for 98% ...







## Canada's largest solar facility operating in the heart of ...

By the end of 2022, there was nearly 15 gigawatts (GW) of operating wind energy capacity and over 4 GW of major solar. Canada has ...

## Canada's largest solar facility operating in the heart of oil country

By the end of 2022, there was nearly 15 gigawatts (GW) of operating wind energy capacity and over 4 GW of major solar. Canada has about 150 GW of total installed electricity ...



## Solar power in Canada

The Canadian PV market has grown quickly and Canadian companies make solar modules, controls, specialized water pumps, high-efficiency refrigerators and solar lighting systems. Grid ...

## Powering Canada Forward: Building a Clean, ...

Some electricity producers are already leading the way by growing their non-emitting power-generation capacity; considering new transmission lines within ...





### [Canada deploys 314 MW of solar in 2024](#)

Canada installed 314 MW of solar in 2024, bringing its cumulative installed PV capacity to more than 5 GW, says the Canadian Renewable Energy Association.

## Canada and solar power

According to the Canadian Renewable Energy Association (CanREA), the wind, solar, and energy storage sectors grew by 46% during the past 5 years (2019-2024) to a new total installed ...



## Comparative Analysis of Electricity Generation Costs by Source

The net-zero emissions goal for electricity in Canada will require replacement of approximately 36.5 GW of existing Greenhouse Gas (GHG) emitting electricity generation capacity by 2035.



## [12 Solar Energy Statistics in Canada \(2025 Update\)](#)

Recent research has shown that installing solar panels on just 1% of Canada's agricultural land could generate between a quarter and over a third of the country's total electricity needs.



### **Solar power in Canada**

Recent research has shown that installing solar panels on just 1% of Canada's agricultural land could generate between a quarter and over a third of the country's total electricity needs.

### **CanREA Marks Fifth Anniversary with Special Industry Data ...**

Canada's total wind, solar and storage installed capacity is now more than 24 GW, including over 18 GW of wind, more than 4 GW of utility-scale solar, 1+ GW on-site solar, and ...



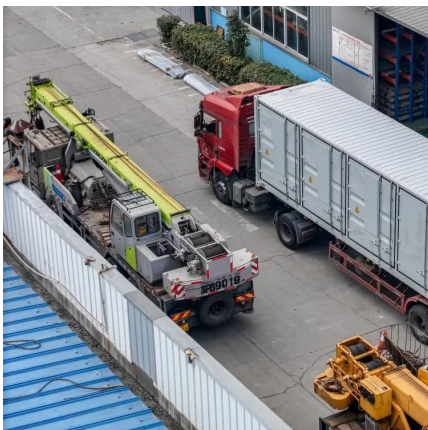
### [e-STORAGE Launches FlexBank 1.0, an 8.36 MWh Energy ...](#)

KITCHENER, ON, Sept. 4, 2025 /PRNewswire/ -- Canadian Solar Inc. (the "Company" or "Canadian Solar") (NASDAQ: CSIQ) today announced that e-STORAGE, which is part of the ...



## Study Confirms Canada Needs More Solar: A Call for Utility-Scale ...

With solar costs plummeting by 90% over the last decade, the potential for large-scale solar has never been greater. This article unpacks the findings of SFU's groundbreaking report and ...



## Solar was 75% of new US generating capacity in first five months ...

A review by the SUN DAY Campaign of data very belatedly released by the Federal Energy Regulatory Commission (FERC) reveals that the combination of solar and ...

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