



# Canada solar energy in residential homes

How many solar projects are there in Canada?

Today, Canada is home to 196 major solar energy projects, the largest of which are found in Alberta and Ontario. Additionally, more than 43,000 solar (PV) energy installations are found on residential, commercial and industrial rooftops across the country, providing power directly to those homes and businesses.

How much solar power does Canada have?

The past two decades have been marked by the significant growth of installed capacity for solar photovoltaic power, which in 2022 reached 6,452 megawatts. Canada generated around 4,323 gigawatt-hours of energy from solar power in 2022, which provided enough electricity to power over 470,000 typical Canadian homes.

Are solar panels a good idea in Canada?

But incentives and policies that encourage or discourage solar vary widely across Canada. Ashley Reid put solar panels on her home in southern Ontario with the help of federal grant and loan programs. Based on her calculations, she says it makes financial sense to have the panels installed on her home. (Submitted by Ashley Reid)

Can solar panels be installed on residential buildings in Canada?

For instance, about half of Canada's residential electricity requirements could be met by installing solar panels on the roofs of residential buildings. The past two decades have been marked by the significant growth of installed capacity for solar photovoltaic power, which in 2022 reached 6,452 megawatts.

Can solar power help Canada's electricity grid?

With the continued expansion of new projects across the country, solar power is poised to contribute even more to Canada's electricity grid-- 82 per cent of which currently comes from sources such as hydro and nuclear. Today, Canada is home to 196 major solar energy projects, the largest of which are found in Alberta and Ontario.

Where can I find information on Canada's energy and housing affordability programs?

Regular updates on Canada's energy and housing affordability programs are available on the Canada Greener Homes Initiative website. "The enormous popularity of the first phase of the Canada Greener Homes Grant illustrates Canadians' desire for their homes to be affordable, comfortable, and sustainable.

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CanREA's all-new Go Solar Guide discusses everything consumers need to consider when making a decision to go solar, such as determining their solar potential, net metering, incentive programs, financing



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their installation, questions to ...

The Government of Canada will share more details on the next phase of the Canada Greener Homes Initiative in the coming weeks and encourages homeowners who are looking to make their homes more energy efficient to explore existing programs, such as the Canada Greener Homes Loan and the Oil to Heat Pump Affordability Program.

STATEMENT: Ottawa, February 6, 2024--CanREA welcomes the announcement yesterday, by the Hon. Jonathan Wilkinson, Minister of Energy and Natural Resources, of a phase two for the federal Greener Homes Initiative, which helps Canadians "Go Solar" and retrofit their homes to reduce their energy bills and GHG emissions.

As a key part of Canada's forthcoming Canada Green Buildings Strategy, which will focus on energy and housing affordability, this next phase will offer supports that are more accessible to Canadian households with low to median incomes, so that energy cost-savings are available to those who need them most.

Canada generated around 4,323 gigawatt-hours of energy from solar power in 2022, which provided enough electricity to power over 470,000 typical Canadian homes. For solar thermal energy, Canada's use has increased in recent years, although it remains relatively small in terms of market penetration.

The Canada Greener Homes Grant will help homeowners make their homes more energy-efficient, create new jobs across Canada for energy advisors, grow our domestic green supply chains and fight climate change.

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The Canada Greener Homes Initiative offers a grant for installing a solar photovoltaic (PV) system (including solar panels and inverters). A solar PV system contains one or more solar panels which convert sunlight directly into electricity and typically one or more inverter and hardware components.

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