

## SolarTech Power Solutions

# Canada s green construction of wind solar storage and charging



## Overview

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As our population continues to grow and Canadian households and businesses switch from fossil fuels to electricity to heat their homes, power our transportation and fuel our industries, demand will rise significantly and electricity systems will need to expand. That's why we're laying the.

In 2025, global capital flows to the energy sector are set to rise to USD 3.3 trillion, a two percent rise in real terms compared to 2024. Of that amount, around USD 2.2 trillion is going to renewables, energy storage, electrical grids, electrification and other clean energy technologies. [Source:.

The installed capacity of energy storage larger than 1 MW—and connected to the grid—in Canada may increase from 552 MW at the end of 2024 to 1,149 MW in 2030, based solely on 12 projects currently under construction 1. There are an additional 27 projects with regulatory approval proposed to come.

Renewable energy stands at the forefront of Canada's sustainable future, driving unprecedented innovation and economic growth. Through pioneering work at Canadian innovation hubs, four transformative energy sources are reshaping our industrial landscape: solar, wind, hydroelectric, and biomass.

Every year, as the world gets a little warmer, the extreme weather events only intensify – from deadlier heatwaves and more destructive wildfires and floods to mounting droughts and melting glaciers. The catastrophic impact is equally obvious. Rising death tolls. More climate-related health issues.

The federal government has set a target of 100% clean electricity by 2035, and meeting that target will take more than a few flagship wind farms or a handful of solar rooftops. If you look at the numbers, hydropower still dominates. Roughly 62% of Canada's electricity came from hydro in 2024.

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