

## Kongres Container

# Distribution of energy storage power stations in Canada



## Overview

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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.

As renewable energy development steadily grows in Canada, a comprehensive map of renewable energy projects captures a snapshot of Canada's changing energy landscape while offering insight into what the future holds for renewable energy. Our map project is based on a previous database and.

The energy storage market in Canada is poised for exponential growth. Increasing electricity demand to charge electric vehicles, industrial electrification, and the production of hydrogen are just some of the factors that will drive this growth. With the country's target to reach zero-net emissions.

Most recently, the 2023 Federal Budget built upon the 30% Clean Technology Investment Tax Credit (ITC) announced in November's 2022 Fall Economic Statement, with the introduction of a 30% Clean Technology Manufacturing Credit and a 15% Clean Electricity ITC, which expands eligibility to non-taxable.

Investigating the implications of electrified loads on electric grid expansion, reliability, resilience, and costs in addition to researching the mitigation of these impacts Project location: CanmetENERGY Ottawa, Ottawa, ON. Timeline:

5 years (2023 to 2028) Program: Funded by the Program of Energy.

Global energy storage capacity was estimated to have reached 36,735MW by the end of 2022 and is forecasted to grow to 353,880MW by 2030. Canada had 138MW of capacity in 2022 and this is expected to rise to 296MW by 2030. Listed below are the five largest energy storage projects by capacity in. What is the fastest growing energy storage technology in Canada?

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What types of energy storage are available in Canada?

There are three main types of energy storage currently commercially available in Canada: Storage is playing an increasingly important role in the electricity system by improving grid reliability and power quality, and by complementing variable renewable energy sources (VRES) like wind and solar.

Why is energy storage underrepresented in Canada?

Some such projects were identified from the Canadian Energy Storage Activity Database<sup>14</sup>. Nevertheless, storage in the residential and ICI segments is under-represented because there is no centralized tracking system for small storage systems. 3.2. How does the market differ by jurisdiction?

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Are capacity markets a new revenue stream for energy storage?

Capacity markets offer a potential new revenue stream for energy storage and could further boost the market for energy storage where adopted. Other provinces and territories have a vertically integrated electricity market structure in which large monopolies of bundled services dominate the market.

Which energy storage companies are based in Canada?

The US produces a diversified set of technologies, but many of its largest companies also focus on lithium-ion technology. Over 30 energy storage companies have operations in Canada, including global firms like Hitachi and GE. Of these, just under three quarters have developed storage projects in Canada.

Should energy storage be a key component of Canada's energy future?

Long-duration storage should be a key component of Canada's energy future. Additionally, while it is important we act and act quickly to deploy energy storage to meet the evolving needs of Canada's energy system, we also need to act with an eye toward the long-term beyond 2035.

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