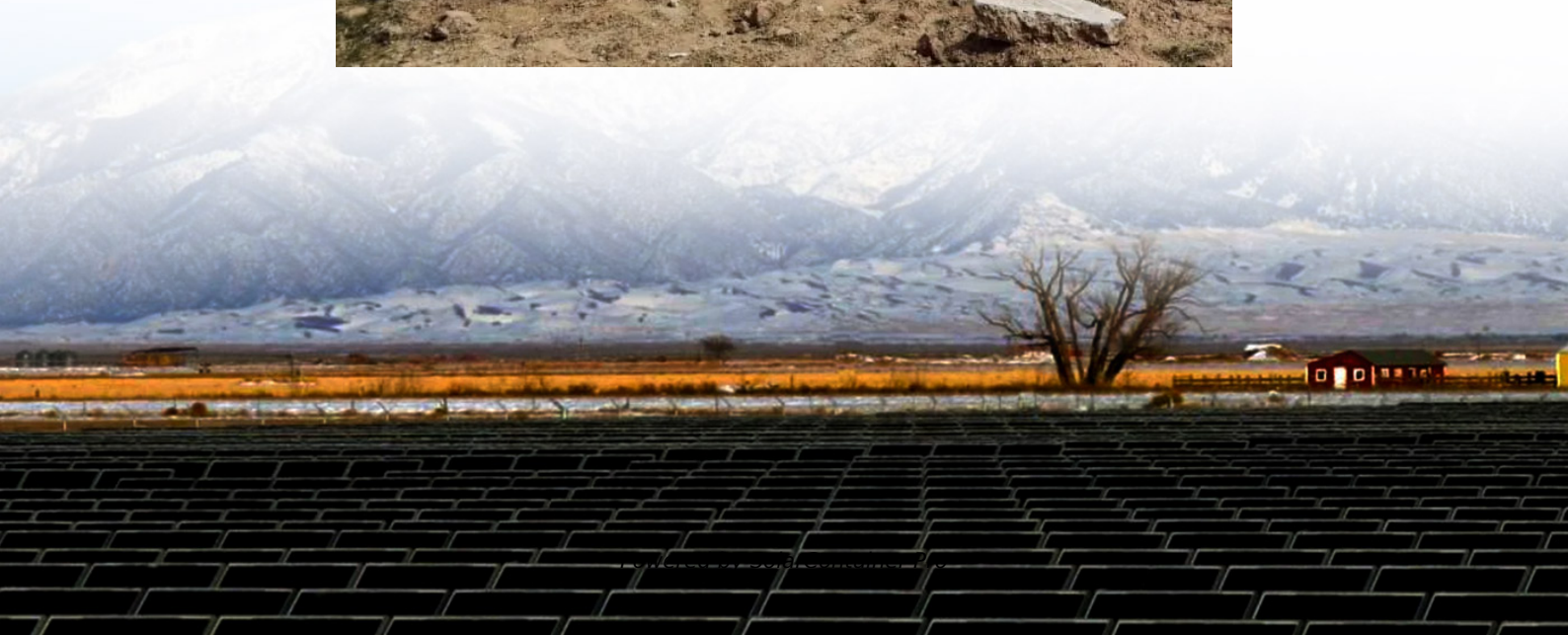


# Canada s new energy storage requirements





## Overview

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A 2022 report titled *Energy Storage: A Key Pathway to Net Zero in Canada*, commissioned by Energy Storage Canada, identified the need for a minimum of 8 to 12GW of installed storage capacity for Canada to reach its 2035 goal of a net-zero emitting electricity grid. How much energy storage does Canada need?

Canada's current installed capacity of energy storage is approximately 1 GW. Per *Energy Storage Canada's 2022 report, Energy Storage: A Key Net Zero Pathway in Canada*, Canada is going to need at least 8 – 12 GW to ensure the country reaches its 2035 goals.

How many GW of energy storage will Canada need by 2035?

An advanced compressed air energy storage (A-CAES) plant in Ontario. Image: Hydrostor. To stay in line with national net zero emissions policy objectives, Canada will need to install somewhere between 8GW and 12GW of energy storage by 2035, according to a new report.

Is energy storage a key path to net-zero in Canada?

A 2022 report titled *Energy Storage: A Key Pathway to Net Zero in Canada*, commissioned by Energy Storage Canada, identified the need for a minimum of 8 to 12GW of installed storage capacity for Canada to reach its 2035 goal of a net-zero emitting electricity grid.

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 important in Canada?

Overall, "energy storage can provide key flexibility services, and support



electricity system reliability, as Canada develops its abundant, untapped wind and solar energy resources,” said Olien. The full paper is available to download in English or French from CanREA’s website.

Is energy storage on the rise in Canada?

With a 68% increase in energy storage worldwide in 2022 and additional market commitments bringing the expected global installations to 130GW by 2023, its unsurprising awareness of the technology is on the rise. Some technologies, like pumped hydro, have a long history in Canada.



## Canada's new energy storage requirements

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### [PRESS RELEASE: CanREA highlights value of energy storage](#)

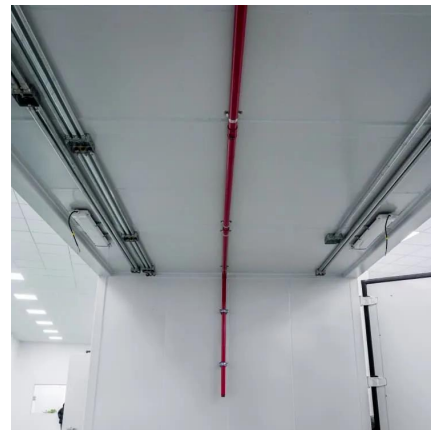
Entitled "Laying the Foundation: Six priorities for supporting the decarbonization of Canada's electricity grid with energy storage," this new whitepaper outlines CanREA's ...

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### **Market Snapshot: Energy storage in Canada may multiply by 2030**

Within Canada, all energy storage projects currently under construction are BESS. Proposed and under-construction projects have a power range between 1 MW and 411 MW, ...

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### **Canada Invests in the Next Generation of Canadian-Made, Clean**

On March 5, 2025, the Honourable Jonathan Wilkinson, Minister of Energy and Natural Resources, announced several investments that demonstrate Canada's commitment to clean ...

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### **Energy Storage in Canada: Recent Developments in a Fast ...**

A 2022 report titled Energy Storage: A Key Pathway to Net Zero in Canada, commissioned by Energy Storage Canada, identified the need





for a minimum of 8 to 12GW of installed storage ...

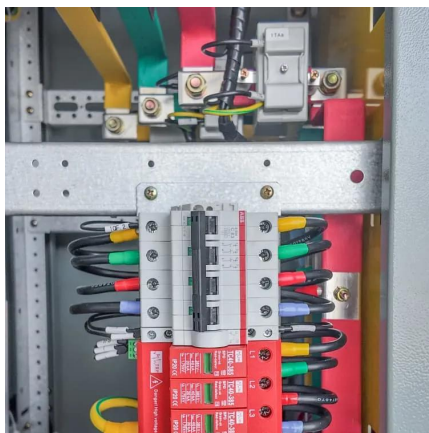
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### Powering Canada Forward: Building a Clean, Affordable, and ...

Using the Global Net-Zero Scenario 2 in its Canada's Energy Future 2023 report, the national energy regulator predicts that we will need to more than double our current electricity ...

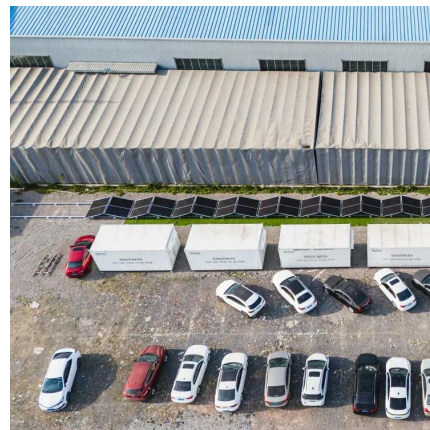
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### Canada needs '8-12GW of energy storage by 2035 for net zero'

To stay in line with national net zero emissions policy objectives, Canada will need to install somewhere between 8GW and 12GW of energy storage by 2035, according to a new ...

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### [CSA Group Standards for Renewable Energy Generation...](#)

CSA Group Standards for Renewable Energy Generation and Energy Storage Systems For more than 30 years, CSA Group standards and research help integrate renewable energy resources ...

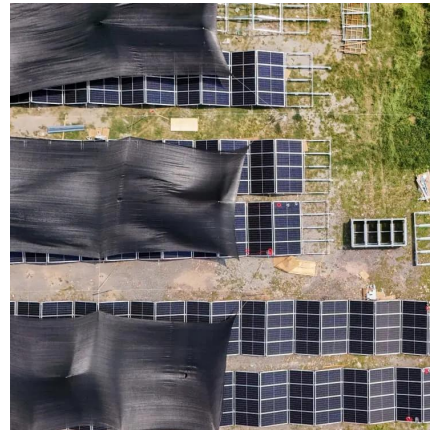
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## [Canadian Clean Electricity Regulations . Equiterre](#)

Yes, with investments in energy efficient technologies and infrastructure, Canada is able to meet the growing demand for electricity with clean energy sources. The country has ...

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## **Powering Canada's Future--Canada's final Clean Electricity ...**

Canada's Clean Electricity Regulations provide a mix of flexibilities designed to help those responsible for power generation choose the best solutions for their circumstances, ...

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## **CanREA applauds Ontario's new energy efficiency framework**

CanREA is also pleased that the new framework includes programs specifically tailored for on-reserve First Nations, ensuring these communities can benefit directly from ...

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## **Standard for Safety for Energy Storage Systems and Equipment**

1 Scope 1.1 These requirements cover an energy storage system (ESS) that is intended to receive and store energy in some form so that the ESS can provide electrical ...

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