

# Alberta Energy Storage System



## Overview

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The first battery energy storage system (BESS) in Alberta, the TransAlta WindCharger project, came online in late 2020 and is a 10MW battery storage system. 1 Quickly following, TD Greystone Infrastructure Fund's Enfinite brought nine additional 20MW projects online (a total of. E3 is a leader in energy storage research including forecasting, operations, and market design across North America markets, and has recently expanded coverage to the Alberta market. While clean and renewable energy sources are hugely important in moving towards a net-zero future, batteries are also proving to be an impactful contribution to our energy grid. 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. It has continued to add new projects since. By Vittoria Bellissimo, President & CEO, Canadian Renewable Energy Association There has never been a better time for Alberta—and all of Canada—to invest in energy storage. Alberta is currently redesigning its electricity market and.

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

BESS is the fastest growing energy storage technology in Canada and is also the dominant storage technology in terms of capacity and number of sites. All but four projects proposed ...

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### Alberta Energy Storage Economics

For the release of the Alberta Electric System Operator (AESO) forecast, E3 conducted a deep dive on the nascent energy storage market in Alberta. This report evaluates the estimated costs and ...



### Energy Storage

The Energy Storage Roadmap (ES Roadmap) sets out the AESO's plan to facilitate the reliable integration of energy storage technologies into AESO authoritative documents and the AESO grid ...

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### Enfinite energizes three Energy Storage projects, adding 60 MW of

Enfinite's eReserve7, eReserve8, and eReserve9 utilize innovative Battery Energy Storage Systems (BESS) and are strategically located to support the energy infrastructure near the ...



### Alberta's budding energy-storage industry is set to bloom. The

Companies behind at least four Alberta projects that included both renewable generation and energy storage have hit the brakes on their plans, Dye told CBC News.

### Why Alberta--and all of Canada--need energy storage

How can energy storage help supply Alberta's growing population and industries--including data centres? What are the main barriers to building energy storage in Alberta, ...



### Alberta NDP Pitch Energy Storage as Key to Grid Reliability

Bill 203 is unlikely to settle those debates on its own, but it ensures that energy storage--long treated as a niche

technology--will occupy a central place in the conversation about ...



## Alberta's Current Battery Storage Projects (2025)

Alberta has at least 11 battery storage systems that are already online, with many more of these projects in development. We will discuss these sites, the continuously developing outlook of this technology ...



## Energy storage engagement

Stakeholders shared input to help inform Alberta's energy storage policy. We held technical discussions on energy storage policy with electricity sector stakeholders. These ...

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