

## ContainerPower Energy Solutions

# Canada's new energy storage industry



 **LFP 48V 100Ah**



## Overview

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What is the fastest growing energy storage technology in Canada?

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 to be commissioned by 2030 are battery storage, with two CAES and two PHS projects also proposed.

What is energy storage in Canada?

The ESC report 'Energy Storage Canadian Market Outlook,' was published this month and explores the current role of energy storage in Canada. Image: Northland Power In a recent report from trade association Energy Storage Canada (ESC), energy storage was cited as "a critical component of future electricity grids" for the country.

When did energy storage start in Canada?

The first energy storage project in Canada, the Sir Adam Beck Pump Generating Station, came online in 1957. However, the next project did not come online until 2013. There are three main types of energy storage currently commercially available in Canada:.

Why is Canada investing in the battery industry?

"Canada is investing in the battery industry to stimulate the creation of quality jobs and support the development of cleaner, more efficient vehicles and industries. Under the Energy Innovation Program, we are supporting technologies that strengthen Canada's supply chain and foster the growth of a robust network of innovators in this field.

Will Canada need more battery-based energy storage capacity by 2030?

Canada will need a 1,500 per cent increase in battery-based energy storage capacity by 2030 to absorb the expected growth in electricity demand, according to Bloomberg New Energy Finance (BNEF), an industry research

group. 1. HydroOne transmission line connecting Oneida to Ontario's electricity grid.

What is Canada's energy storage outlook for 2050?

ESC's report predicts that Canada's energy storage outlook for 2050 is between 20GW and 40GW, taking into account both short-duration and long-duration energy storage (LDES) technologies. There are opportunities in every region, with Ontario leading the way, followed by BC and Alberta.

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