SolarTech Power Solutions

New battery energy storage projects in Canada

Overview

July 25, 2025 – With 278 lithium-ion battery units—each weighing more than 84,000 lb—now drawing and storing power from Ontario's electricity grid, the Oneida Energy Storage Project has officially entered commercial operation, becoming the largest battery energy storage facility in operation in Canada, and among the largest globally.Where is the largest battery energy storage system in Canada?

The Hagersville Battery Energy Storage park, located in Haldimand County, Ontario, Canada, will be the largest battery energy storage system (BESS) project to date in Canada. The project is expected operational in Q4 of 2025.

Can a battery storage project be built in Canada?

"We spoke with Annette and NRStor, and the Six Nations of the Grand River; they had an idea for a first-of-its-kind battery storage project in Canada. They found a great location to do it, and they had a great concept. And then they went looking for some partners who could help them make it happen.

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 a battery energy storage system?

Battery Energy Storage Systems (BESS) are tools that store electrical energy. 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, with an average storage capacity range of 0.5 hours to 6 hours.

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 should we invest in Canadian battery innovation?

Today’s investments support key priorities in Canadian battery innovation, including: Supporting the development and scale-up of new technologies that grow Canada’s economy and promote energy sovereignty.

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