



BUHLE POWER

Canadian Air Energy Storage Project





Overview

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:.

What is compressed air energy storage (CAES)?

In Compressed Air Energy Storage (CAES), air is compressed and stored in underground structures like mines, aquifers, salt caverns or old oil reservoirs, or in aboveground pressure vessels. When electricity is needed, the air is released to power a turbine and generate electricity.

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.

What is compressed air energy storage (PSH)?

As of June 2025, PSH is the earliest and largest form of energy storage in Canada. 8 In Compressed Air Energy Storage (CAES), air is compressed and stored in underground structures like mines, aquifers, salt caverns or old oil reservoirs, or in aboveground pressure vessels.



Canadian Air Energy Storage Project



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Dec 2, 2025 · "EllisDon is proud to invest in and partner with Cache Power on Canada's first commercial scale Compressed Air Energy Storage facility," said Joey Comeau, Chief ...

[Canada's Cache Power advances 30 GWh compressed air storage project](#)

Nov 3, 2025 · Cache Power has commissioned an engineering study for a 640 MW compressed air energy storage and hydrogen project in Alberta, supported by provincial funding.



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[Cache Power builds 'Canada's first](#)

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[Cache Power advances 30 GWh compressed air energy storage project ...](#)

Oct 31, 2025 · Cache Power, a subsidiary of EPC firm Federation Group, is moving forward with its Marguerite Lake Compressed Air Energy Storage (CAES) and Hydrogen Hub Project near ...



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[EllisDon, Cache Power to build Canada's first compressed air storage](#)

Dec 3, 2025 · ELLISDON -- EllisDon is partnering with Cache Power to deliver Canada's first commercial scale Compressed Air Energy Storage facility in northeast Alberta. The facility will ...



[As Canadian Compressed Air Energy Storage Project Moves ...](#)

Summary Cache Power has selected Babcock & Wilcox to conduct an engineering study and provide technology for a compressed air energy storage (CAES) and hydrogen hub project in ...

[Cache Power Plans 'Canada's First' Commercial-Scale Compressed Air](#)

Dec 4, 2025 · Cache Power is partnering with construction company EllisDon to deliver a compressed air energy storage facility in Northeast Alberta, Canada.



[EllisDon Partners with Cache Power for Canada's First Compressed Air](#)

MISSISSUAGA, ON, December 02, 2025 -- EllisDon has partnered with Cache Power to deliver Canada's first commercial scale Compressed Air Energy Storage ("CAES") facility in Northeast ...



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