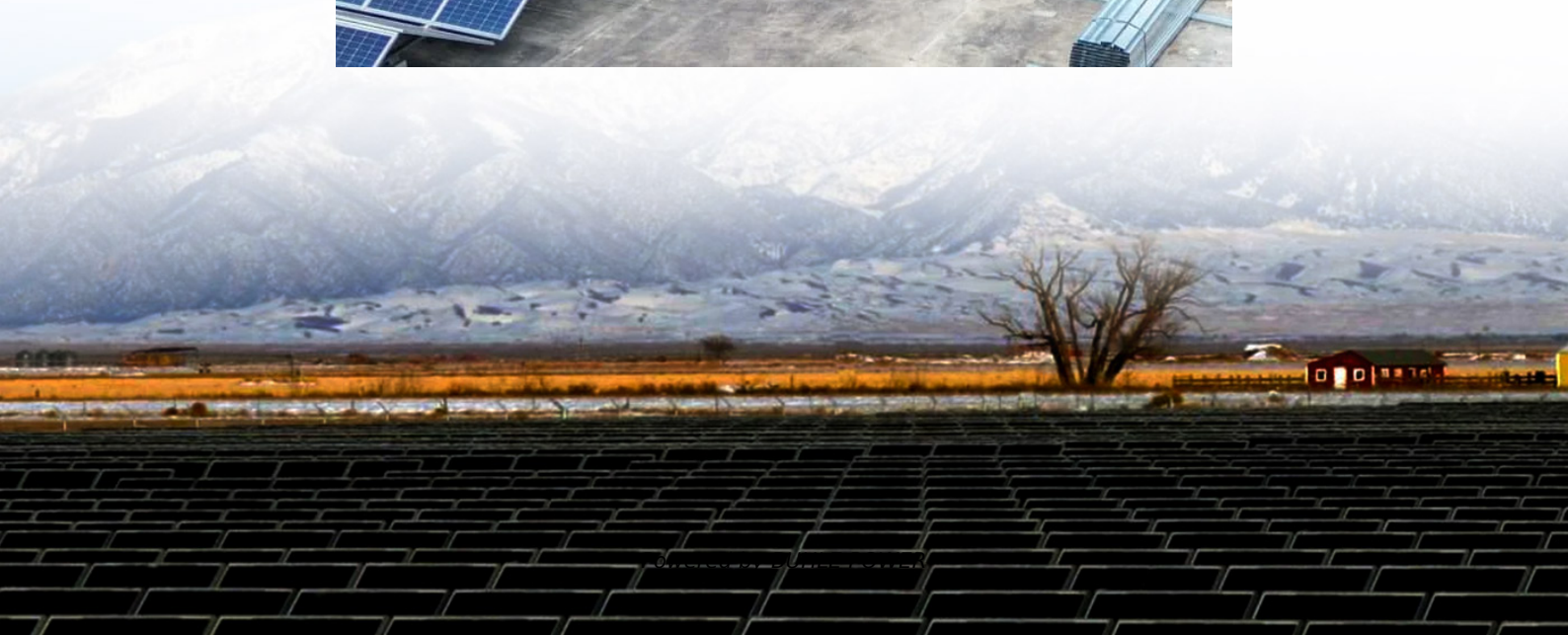


Canadian Air Energy Storage Project





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?

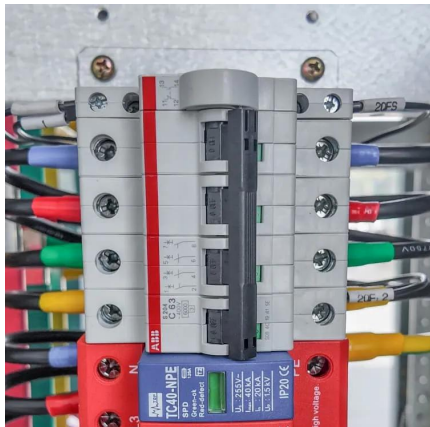
There are three main types of energy storage currently commercially available in Canada: Storage is playing an increasingly important role in the electricity system by improving grid reliability and power quality, and by complementing variable renewable energy sources (VRES) like wind and solar.

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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