

Energy storage requirements for Canadian solar power plants





Overview

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.

How many energy storage projects are there in Canada?

In 2021 Canada had over 50 energy storage projects with the highest concentration of facilities in Ontario. Canada's utility scale rechargeable energy storage capacity is estimated at over 160 MWac. Most of the solar power generating potential in Canada is located in the south in Alberta, Saskatchewan, and Ontario.

How much solar power does Canada have in 2021?

According to the Canadian Renewable Energy Association (CanREA), the solar energy sector grew by 13.6% (288 MW) in 2021. Canada now has a solar capacity of 2,399 MW, compared to 2,111 MW in 2020. Canada's most valuable source for solar generation is Ontario, sharing almost 96% of its solar power.

Who is energy storage Canada?

Energy Storage Canada is the only national voice for energy storage in Canada today. We focus exclusively on energy storage and speak for the entire industry because we represent the full value chain range of energy storage opportunities in our own markets and internationally.



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