

# Canada energy storage systems and components

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.

How much energy storage does Canada need?

Canada's current installed capacity of energy storage is approximately 1 GW. Per Energy Storage Canada's 2022 report, *Energy Storage: A Key Net Zero Pathway in Canada*, Canada is going to need at least 8 - 12 GW to ensure the country reaches its 2035 goals.

Should energy storage be a key component of Canada's energy future?

Long-duration storage should be a key component of Canada's energy future. Additionally, while it is important we act and act quickly to deploy energy storage to meet the evolving needs of Canada's energy system, we also need to act with an eye toward the long-term beyond 2035.

How important is energy storage to Canada's transition?

Energy storage - BESS and beyond - is going to be critical to Canada's transition, so we know we need to get these projects right. Together we will. You can find a copy of the full report [HERE](#) on ESC's website. Canada's current installed capacity of energy storage is approximately 1 GW.

How much energy storage does Canada need in 2022?

Coming soon: the 250MW/1,000MWh Oneida project in Ontario. Image: NRStor. Energy Storage Canada's 2022 report, *Energy Storage: A Key Net Zero Pathway in Canada* indicates Canada will need a minimum of 8 to 12 GW of energy storage to ensure Canada achieves its 2035 goals.

Does Canada need more energy storage for net zero?

Image: NRStor. Canada still needs much more storage for net zero to succeed. Energy Storage Canada's 2022 report, *Energy Storage: A Key Net Zero Pathway in Canada* indicates Canada will need a minimum of 8 to 12 GW of energy storage to ensure Canada achieves its 2035 goals.

By deploying our expertise in critical minerals, battery materials, battery cell prototyping and battery recycling, we enable the widespread adoption of energy storage technologies in various applications within Canada.

Our services for the certification of energy storage systems and components, such as batteries, management systems, inverters and interfaces, have been designed according to international standards to assist various project partners including:



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Affordable, dynamic and versatile, energy storage must be a cornerstone of Canada's energy transition, providing a solid foundation upon which to build a decarbonized and expanded grid by 2035. CanREA's innovative plan of action for advancing energy storage in Canada focuses on six priority areas, starting with education.

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TROES Corp. is a Canadian Commercial & Industrial Battery Energy Storage Systems company, specializing in mid-size smart distributed energy storage solutions from 100kWh-10MWh+.

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Energy storage systems can level out supply in urban centres and capacity constrained areas, avoiding the cost of transmission system upgrades. Energy storage can balance the intermittent nature of wind and solar, providing reliable, clean generation.

The development and implementation efforts of effective, affordable, and nature-friendly energy storage systems are recognized as a key requirement in achieving a green energy transition. In this regard, Canada intends to be the country leading and inspiring many others.

Energy Storage Canada's 2022 report, Energy Storage: A Key Net Zero Pathway in Canada indicates Canada will need a minimum of 8 to 12GW of energy storage to ensure Canada achieves its 2035 goals. Moreover, while each province's supply structure differs, potential capacity for energy storage was identified in all

Canadian provinces, meeting ...

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With the country's target to reach zero-net emissions by 2050, energy storage is a strategic component in the energy transition and a new economic frontier. Accordingly, opportunities for energy storage development ...

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