



## A-Core Container

# Battery energy storage box sales in Canada



## Overview

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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.

Will NextStar produce EV batteries?

Nextstar Energy Ltd. will produce batteries for energy storage, not electric vehicles, when its gigafactory in Windsor, Ont. begins commercial production next month. Expanding into the growing market for energy storage production will keep the plant busy until EV sales pick up again, said Danies Lee, chief executive of Nextstar.

Are ESS batteries the future of energy storage?

“It’s like a trend that will come soon, but it does not come as soon as we expect it, so while we are waiting, we have this opportunity from the (energy storage system) ESS market.” ESS batteries are essentially large, rechargeable batteries that store energy during off-peak hours and release it at times of need.

Why do we need energy storage system batteries?

That’s made “everyone thirsty for electricity,” Lee said. In turn, greater electricity demand is driving demand for energy storage system batteries (ESS), which make electrical grids more efficient and help operators manage demand and electricity load.

What are the different types of batteries used for energy storage?

There are different types of batteries used for large-scale energy storage, such as lithium-ion, lead acid, redox-flow, and molten salt.<sup>11</sup> Among these,

lithium-ion batteries are the most commonly installed for new projects. 12 Challenges with batteries may vary with the type, such as cost or charging and discharging capacities.

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