

## ContainerPower Energy Solutions

# Long-life energy storage battery



## Overview

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Can battery technology unlock long-duration energy storage?

The batteries work fabulously for discharging a few hours of electricity, but they're too expensive to dispatch energy for much longer. Now several companies say they have developed cheaper technologies, including flow batteries and metal-air batteries, that promise to unlock long-duration energy storage.

What is the future of battery storage?

Competing long-duration storage technologies, such as flow batteries and other metal-air batteries, have also attracted billions in investment and government support. Utilities started adding batteries to the US electrical grid dramatically in 2021. Source: US Energy Information Administration.

Are lithium-ion batteries a viable energy storage technology?

Lithium-ion batteries have become the dominant energy storage technology due to their high energy density, long cycle life, and suitability for a wide range of applications. However, several key challenges need to be addressed to further improve their performance, safety, and cost-effectiveness.

How long do lithium ion batteries last?

Lithium-ion batteries designed for grid applications often have cycle lives as high as 10,000 cycles . This durability ensures the long-term viability and economic feasibility of grid-scale energy storage projects. 5.5.

Are long-duration energy storage batteries the future of energy storage?

But new alternatives, known as long-duration energy storage (LDES) batteries, which have large energy capacities, are now offering a promising solution. These technologies may soon allow us to store electricity created by solar panels and wind turbines for extended periods, to ensure there is a steady and constant supply of power on demand.

What is a battery cycle life?

Cycle life, a measure of how many charge-discharge cycles a battery can undergo before experiencing a significant capacity loss, is another key consideration for grid energy storage. Lithium-ion batteries designed for grid applications often have cycle lives as high as 10,000 cycles .

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