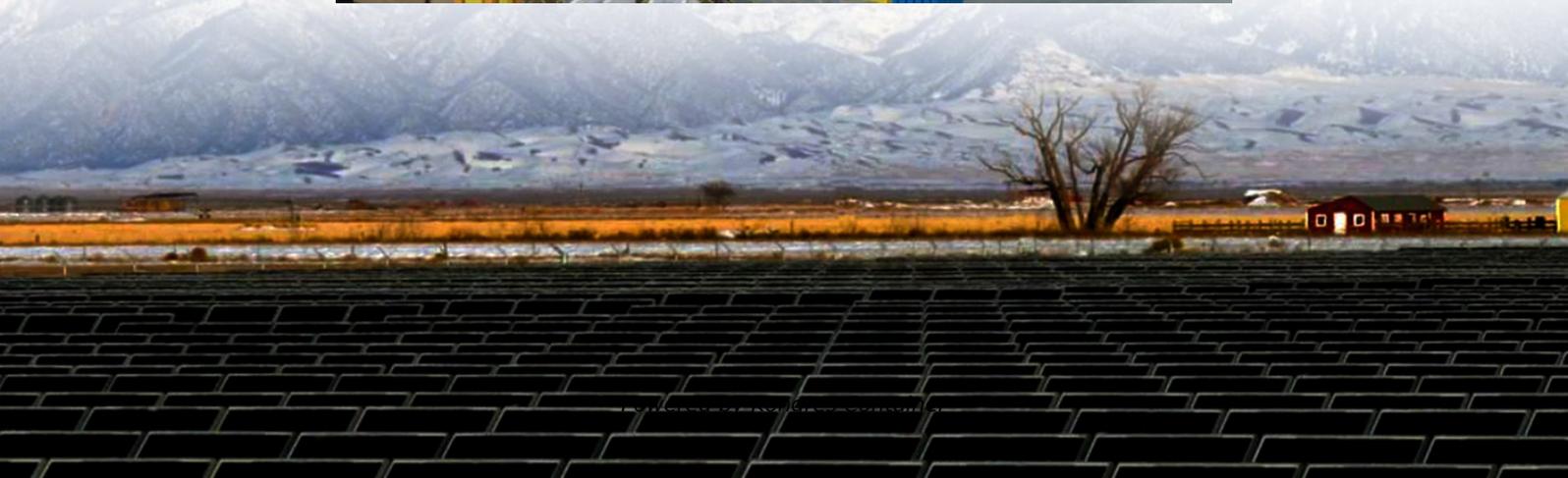


## Kongres Container

# Is it cost-effective to use lithium batteries for energy storage



## Overview

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Wider deployment and the commercialisation of new battery storage technologies has led to rapid cost reductions, notably for lithium-ion batteries, but also for high-temperature sodium-sulphur (“NAS”) and so-called “flow” batteries. Are lithium-ion batteries the future of energy storage?

While lithium-ion batteries have dominated the energy storage landscape, there is a growing interest in exploring alternative battery technologies that offer improved performance, safety, and sustainability .

Are battery electricity storage systems a good investment?

This study shows that battery electricity storage systems offer enormous deployment and cost-reduction potential. By 2030, total installed costs could fall between 50% and 60% (and battery cell costs by even more), driven by optimisation of manufacturing facilities, combined with better combinations and reduced use of materials.

Are long-duration energy storage technologies cheaper than lithium-ion batteries?

BloombergNEF (BNEF)’s inaugural Long-Duration Energy Storage Cost Survey shows that while most long-duration energy storage technologies are still early-stage and costly compared to lithium-ion batteries, some have already or are set to achieve lower costs for longer durations.

Does battery storage cost reduce over time?

The projections are developed from an analysis of recent publications that include utility-scale storage costs. The suite of publications demonstrates wide variation in projected cost reductions for battery storage over time.

Is battery storage a cost effective energy storage solution?

Cost effective energy storage is arguably the main hurdle to overcoming the generation variability of renewables. Though energy storage can be achieved

in a variety of ways, battery storage has the advantage that it can be deployed in a modular and distributed fashion 4.

What is the future of lithium-ion battery technology?

The energy density of the traditional lithium-ion battery technology is now close to the bottleneck, and there is limited room for further optimization. Now scientists are working on designing new types of batteries with high energy storage and long life span. In the automotive industry, the battery ultimately determines the life of vehicles.

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