



# Cost of sodium-ion batteries for 1GW energy storage

The company says its technology slashes auxiliary power needs by up to 90%, saves about \$1 million annually per gigawatt hour of storage, and cuts battery degradation by 33% over a ...

By harnessing the natural abundance of sodium, an element found in something as common as table salt, CATL has slashed energy storage costs to an unprecedented \$10 per kilowatt ...

Sodium-ion batteries (SIBs) could offer a promising cost-reduction alternative to lithium-ion batteries (LIBs), according to a report from the International Renewable Energy Agency...

**Executive Summary** In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration systems. The projections are ...

In support of this challenge, PNNL is applying its rich history of battery research and development to provide DOE and industry with a guide to current energy storage costs and performance metrics for ...

Wood Mackenzie data show that, on average, sodium-ion batteries still cost more than lithium-ion for an equivalent storage capacity. For 2025, we estimate an average cost for LFP ...

The informed public and energy analysts have long questioned the long-term viability of a global energy system built entirely on lithium-ion batteries, citing concerns over raw material ...

CATL's announced sodium-ion battery pricing of \$19 per kilowatt hour represents a 65% reduction from current lithium iron phosphate costs of \$55-\$70/kWh, not the 90% cost decline ...

This article explores the economic and resource-based aspects of sodium-ion batteries, offering a comprehensive analysis of their cost-effectiveness and resource utilization, and detailing ...

The present work applies a bottom-up cost model for determining expected future price trends between lithium-ion (LIB) and sodium-ion batteries (SIB) and incorporates both storage technologies into a ...

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