

# The actual cost of sodium-ion energy storage



## Overview

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At least four major manufacturers, including CATL, HiNa Battery, Natron Energy, and Faradion, are now shipping sodium-ion cells at prices between \$30-45 per kilowatt-hour, roughly 60% below current lithium iron phosphate costs. The cost advantage stems from the abundance of raw . Sodium-ion batteries (SIB) have recently emerged as an alternative to current lithium-ion batteries (LIB), using low-cost and abundant raw materials. By 2050, sodium-ion batteries, benefiting from rapid learning curves and material abundance, are projected to deliver storage costs between \$12.

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### [Sodium-Ion Batteries 2026: Complete Technical & Economic Analysis](#)

Sodium-ion batteries have emerged as the first commercially viable alternative to lithium-ion technology, achieving \$55-70/kWh cell costs in 2026-a 35-40% discount to lithium iron

### [Sodium-ion battery cost projections and their impact on the global](#)

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



### [Sodium-ion battery cost projections and their impact on the global](#)

This study combines a bottom-up cost modelling including future performance developments on material level for SIB with a global energy system model to obtain a comprehensive assessment of the

### [Sodium-Ion Batteries Enter Commercial Production as Costs Drop](#)

Multiple manufacturers have begun shipping sodium-ion battery cells at prices 60% below equivalent lithium-ion products, marking the technology transition from laboratory curiosity to





## [The Sodium-Ion Revolution: A Brutally Honest Economic Analysis](#)

Is the "salt" battery a lithium killer? Our brutally honest guide goes beyond the science to reveal the disruptive economics of Sodium-Ion and includes a simulator to show its impact on EV

## **Sodium-Ion Batteries Approach Cost Parity With Lithium-Ion,**

Sodium-ion batteries are rapidly advancing toward cost parity with lithium-ion, potentially reducing energy storage costs and enhancing grid resilience by 2050.



## **Energy Storage Cost and Performance Database**

DOE's Energy Storage Grand Challenge supports detailed cost and performance analysis for a variety of energy storage technologies to accelerate their development and deployment.

## **New Sodium Battery Technology Slashes Grid Storage Costs**

Look for major utility-scale project announcements that specifically select sodium-ion technology for their next round of grid storage deployments. A rapid pivot by the world's largest



## **CATL's \$19/kWh Sodium-Ion Claims Face Reality Check in \$1.82**

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

## **Sodium-ion battery cell cost could drop to \$40/kWh, says IRENA**

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 (IRENA).



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