

# **Sodium battery energy storage unit price**





## Overview

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In 2024, the manufacturing cost for sodium-ion cells was approximately \$50/kWh compared to about \$70/kWh for lithium-ion cells. Market Prices: Recent data indicates that sodium-ion cells cost about \$87/kWh, marginally cheaper than lithium-ion cells at \$89/kWh in 2024. Are sodium-ion batteries a cost-effective energy storage solution?

Sodium-ion batteries are rapidly emerging as a promising solution for cost-effective energy storage. What Are Sodium-Ion Batteries?

Sodium-ion batteries (SIBs) represent a significant shift in energy storage technology. Unlike Lithium-ion batteries, which rely on scarce lithium, SIBs use abundant sodium for the cathode material.

How much will sodium ion batteries cost in 2028?

Assuming a similar capex cost to Li-ion-based battery energy storage systems (BESS) at \$300/kWh, sodium-ion batteries' 57% improvement rate will see them increasingly more affordable than Li-ion cells, reaching around \$10/kWh by 2028.

Will sodium-ion batteries dominate the future of long-duration energy storage?

With costs fast declining, sodium-ion batteries look set to dominate the future of long-duration energy storage, finds AI-based analysis that predicts technological breakthroughs based on global patent data. Sodium-ion batteries' rapid development could see long-duration energy storage (LDES) enter mainstream use as early as 2027.

Are sodium ion batteries a good investment?

Analysing 30 LDES technologies, the research found sodium-ion batteries to hold the most promise due to their fast improvement rate – around 57% in 2024. They offer more efficiency in round-trip energy use, greater operational flexibility and lose less energy during storage and supply.



## Are sodium-ion batteries a low-cost option?

Still, achieving a low-cost contender may be several years away for sodium-ion batteries and will require technological advances and favorable market conditions, according to a new study in Nature Energy. Sodium-ion batteries are often assumed to have lower costs and more resilient supply chains compared to lithium-ion batteries.

## What is a sodium ion battery?

Sodium-ion batteries (SIBs) represent a significant shift in energy storage technology. Unlike Lithium-ion batteries, which rely on scarce lithium, SIBs use abundant sodium for the cathode material. Sodium is the sixth most abundant element on Earth's crust and can be efficiently harvested from seawater.



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### [World's largest sodium-ion project comes online in China](#)

The project in Hubei, China. Image: Datang / Hina Battery. The first phase of the world's largest sodium-ion battery energy storage system ...

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### [Energy Storage Sodium Ion Battery Market, Size ...](#)

The energy storage sodium ion battery market size crossed USD 245.3 million in 2024 and is set to grow at a CAGR of 25.3% from 2025 to 2034, driven by ...

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### [NAS batteries: long-duration energy storage proven at ...](#)

Sodium-sulfur (NAS) battery storage units at a 50MW/300MWh project in Buzen, Japan. Image:



NGK Insulators Ltd. The time to be skeptical ...

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### [Sodium-Ion Batteries Programme and Their](#)

Sodium-ion battery (SIB) technology can potentially address the concerns surrounding LIBs and emerge as an alternative BESS technology. SIBs benefit from limited reliance on critical ...

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### [2022 Grid Energy Storage Technology Cost and ...](#)

The 2020 Cost and Performance Assessment provided installed costs for six energy storage technologies: lithium-ion (Li-ion) batteries, lead-acid batteries, ...

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### **Energy Storage System**

Whole-life Cost Management Thanks to features such as the high reliability, long service life and high energy efficiency of CATL's battery systems, "renewable energy + energy storage" has ...

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## [BYD launches sodium-ion grid-scale BESS product](#)

BYD has launched what it claimed is the 'world's first high-performance' sodium-ion BESS product, using its Long Blade Battery cell.

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## **CATL Sodium-Ion Batteries Cuts Costs By 90% : \$10/kWh Energy ...**

CATL's sodium-ion batteries promise \$10/kWh storage and 90% lower costs. See how they could transform EVs and grid energy worldwide fast.

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## **Sodium-Ion Battery Price Trends: A Comprehensive Guide for 2023**

Sodium-ion batteries are used in energy storage systems, electric vehicles, residential energy storage, and consumer electronics. What is the expected price trend for ...

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## [Energy Storage Sodium Ion Battery Market, Size Report 2034](#)

The energy storage sodium ion battery market size crossed USD 245.3 million in 2024 and is set to grow at a CAGR of 25.3% from 2025 to 2034, driven by rising demand for safer, thermally ...

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With costs fast declining, sodium-ion batteries look set to dominate the future of long duration energy storage, finds an AI-based analysis that ...

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### **Sodium battery energy storage vs lithium battery energy storage**

The demands for Sodium-ion batteries for energy storage applications are increasing due to the abundance availability of sodium in the earth's crust dragging this technology to the front row.  
...

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### [A cost and resource analysis of sodium-ion batteries](#)

As production ramps up, the per-unit cost of batteries is expected to decrease, making them an even more attractive option for large-scale ...

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### [Hithium unveils 6.25 MWh BESS, sodium-ion battery ...](#)

Chinese energy storage specialist Hithium has used its annual Eco Day event to unveil a trio of innovative products: a 6.25MWh lithium-ion ...

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### [World's largest sodium-ion battery goes into operation](#)

The first phase of Datang Group's 100 MW/200 MWh sodium-ion energy storage project in Qianjiang, Hubei Province, was connected to the grid.

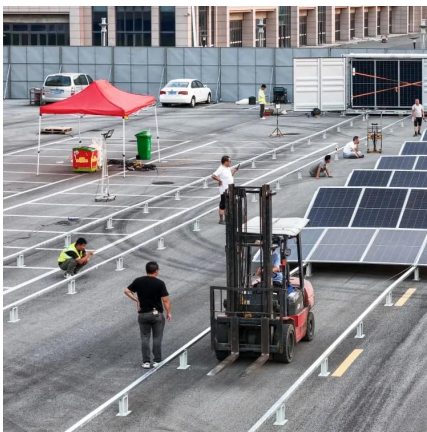
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### **Sodium-Ion Battery Price Trends: A Comprehensive Guide for 2023**

Sodium-ion batteries are becoming increasingly competitive in the energy storage market. As reported by poweringautos , the projected price for sodium-ion batteries in ...

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### [Energy Storage Sodium Ion Battery Market](#)

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## Sodium-ion Batteries: The Future of Affordable Energy Storage

Explore how sodium-ion batteries offer a cost-effective, affordable and sustainable future for energy storage.

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## [Sodium-Ion Batteries: Benefits & Challenges](#) , EB BLOG

Discover the advantages, challenges, and future potential of sodium-ion batteries in transforming energy storage and electric mobility. Explore why they're seen as a promising ...

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Assuming a similar capex cost to Li-ion-based battery energy storage systems (BESS) at \$300/kWh, sodium-ion batteries' 57% improvement rate will see them increasingly ...

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## How does the cost of sodium-ion batteries compare to lithium-ion

Overall, sodium-ion batteries offer a cost-effective alternative to lithium-ion batteries, especially for applications that prioritize sustainability and cost over high energy ...

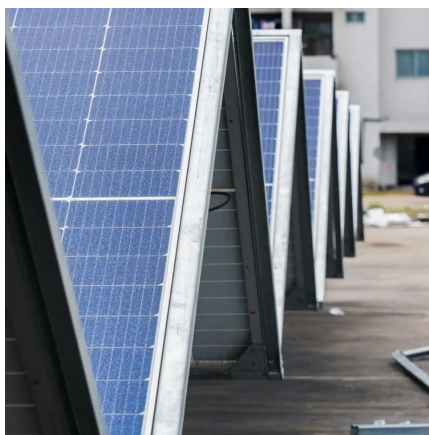
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## [Sodium Ion Energy Storage System Price: The \\$45/kWh ...](#)

But what's driving their sudden price competitiveness? Let's unpack the numbers behind the \$45-\$65/kWh price range that's making engineers rethink century-old energy paradigms.

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## [Sodium-ion batteries need breakthroughs to compete](#)

So, possible lower materials prices aside, the cost per unit of energy stored remains higher for sodium-ion batteries. This likely would limit widespread commercial ...

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## [A cost and resource analysis of sodium-ion batteries](#)

As production ramps up, the per-unit cost of batteries is expected to decrease, making them an even more attractive option for large-scale energy storage and electric vehicles.

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### [Sodium Ion Energy Storage Price: The \\$100 Billion Game ...](#)

The sodium ion energy storage price has plummeted to 1.03€/Wh (\$0.14/Wh) in China's latest mega-project bids [1], making industry veterans do double-takes. But is this rock-bottom ...

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