

Sodium-ion battery energy storage electricity price





Overview

Sodium-ion batteries are becoming increasingly competitive in the energy storage market. As reported by poweringautos.com, the projected price for sodium-ion batteries in 2024 is approximately \$85 per kWh, which is lower than the estimated \$89 per kWh for lithium-ion batteries. How much would a sodium ion battery cost in the future?

Based on material costs of \$4 per kWh there could be \$8 to \$10 per kWh sodium ion batteries in the future. This would be ten times cheaper than energy storage batteries today. Soda Ash Mine in Wyoming.

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.

Can sodium-ion batteries help power a sustainable future?

After all, the race to power a sustainable future is as much about bold ideas as it is about overcoming the obstacles in their path. CATL has introduced sodium-ion batteries with a potential cost reduction to \$10/kWh, using sodium's abundance and safety to address energy storage challenges.

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.

What are sodium ion batteries?

Sodium-ion batteries represent a notable shift from traditional lithium-ion technology. Unlike lithium, which is relatively scarce and expensive, sodium is



derived from common salt, making it both widely available and cost-effective. This abundance positions sodium-ion batteries as a more sustainable alternative to lithium-based counterparts.

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.



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

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Low-Cost Sodium Batteries To Cut Costs For All Sorts Of Things

Having crossed some technical hurdles, low cost sodium batteries are hurtling towards the market for grid energy storage, EVs, and more.

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Sodium-Ion Battery Breakthrough Increases Energy Density For EV, Energy

DETROIT - The scientific push to make cheap sodium-ion batteries a viable alternative to the packs with lithium cells that go into electric cars and energy storage systems ...

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Sodium-ion Battery vs Lithium-ion Battery (2025 Update)

Explore sodium-ion vs lithium-ion batteries in 2025: performance, price, safety, and use cases--all in one friendly comparison.



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

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48v 100ah Sodium Ion Battery Solar Energy Storage ...

Sodium-ion home energy storage systems are an emerging alternative to traditional lithium-ion batteries. These systems store energy from renewable ...

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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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Home , Indi Energy

Indi Energy, is an energy storage startup from India involved in the development and commercialization of Sodium-ion batteries.

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Global Market for Sodium-ion Batteries 2026-2036: Sodium-Ion ...

This 300-fold price differential in raw materials translates directly into more affordable battery systems, positioning sodium-ion technology as a game-changer for price ...

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Exclusive: sodium batteries to disrupt energy storage market

Sodium-ion batteries are not only improving at a faster rate than other LDES technologies but they are also set to be cost comparable with the cheapest forms of ...

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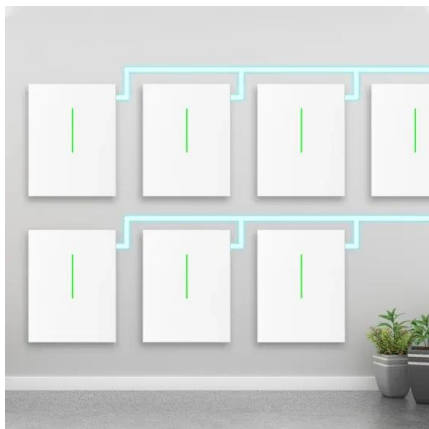
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Lower-cost sodium-ion batteries are finally having ...

Sodium-ion batteries for electric vehicles and energy storage are moving toward the mainstream. Wider use of these batteries could lead to ...

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Future Sodium Ion Batteries Could Be Ten Times Cheaper for ...

Based on material costs of \$4 per kWh there could be \$8 to \$10 per kWh sodium ion batteries in the future. This would be ten times cheaper than energy storage batteries today.

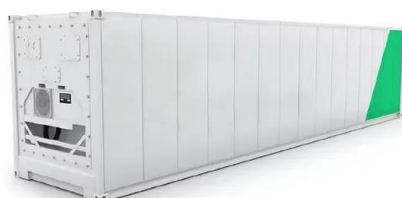
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Sodium-ion batteries ready for commercialisation: for ...

The cost of a Na-ion battery cell is expected to be around \$40-80/kWh compared to an average of \$120/kWh for a Li-ion cell. Na-ion batteries ...

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LPSB48V400H
48V or 51.2V



Sodium-ion batteries need breakthroughs to compete

A thorough analysis of market and supply chain outcomes for sodium-ion batteries and their lithium-ion competitors is the first by STEER, a ...

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Low-Cost Sodium Batteries To Cut Costs For All Sorts ...

Having crossed some technical hurdles, low cost sodium batteries are hurtling towards the market for grid energy storage, EVs, and more.

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Global Market for Sodium-ion Batteries 2026-2036: Sodium-Ion Battery

The sodium-ion battery market is gaining significant traction as a sustainable and cost-effective alternative to lithium-ion technology. With sodium priced at \$0.05 per kilogram ...

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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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48V 100Ah

Sodium-ion batteries - a viable alternative to lithium?

While lithium ion battery prices are falling again, interest in sodium ion (Na-ion) energy storage has not waned. With a global ramp-up of cell ...

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Energy storage costs

Informing the viable application of electricity storage technologies, including batteries and pumped hydro storage, with the latest data and analysis on costs and performance. Energy storage ...

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Estonia's Freen launches 10 kWh residential sodium-ion battery

Sodium-ion batteries Estonia's Freen launches 10 kWh residential sodium-ion battery - updated with price The new home energy storage solution from Estonia's Freen is ...

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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. ...

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Battery Prices Drop, BYD's Sodium-Ion Innovation Leads the ...

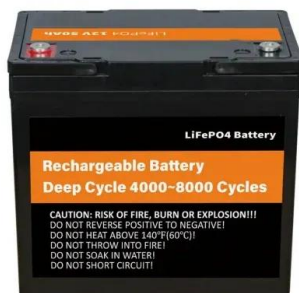
As the cost of lithium-ion batteries continues to fall, BYD, the world's largest electric vehicle (EV) manufacturer, has unveiled its first high-performance sodium-ion battery ...

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Sodium-ion Battery price today , Historical New Energy Price ...

SMM brings you current and historical Sodium-ion Battery price tables and charts, and maintains daily Sodium-ion Battery price updates.

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Sodium-ion batteries ready for commercialisation: for grids, ...

The cost of a Na-ion battery cell is expected to be around \$40-80/kWh compared to an average of \$120/kWh for a Li-ion cell. Na-ion batteries are safer (operating temperature ...

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Future Sodium Ion Batteries Could Be Ten Times Cheaper for Energy Storage

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[Sodium-ion Batteries 2025-2035: Technology, ...](#)

Sodium-ion Batteries 2025-2035 provides a comprehensive overview of the sodium-ion battery market, players, and technology trends. Battery ...

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