

Global PV Storage Insights

Sodium ion battery storage tender price in China 2030



Overview

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On March 17, it issued a tender notice for the procurement of 5 MW/20 MWh of sodium-ion batteries, setting the price limit at CNY 1.1/Wh (\$150/kWh). The technology will be delivered in two phases. The first phase is for the minimum expandable unit capacity of not more than 2.5 MWh. The second phase.

Sodium battery price: In 2024, the price of sodium batteries dropped to 0.58 yuan/wh, a year-on-year decrease of 22.7%. It is expected that by 2030, the price of sodium batteries will drop to 0.2 yuan/wh. From January to September 2024, China's top 10 sodium battery shipments: Zhongke Haina, Veken.

Industry data shows that lithium-ion energy storage cells cost around ¥0.32 per watt-hour, while sodium-ion cells are priced at over ¥0.50 per watt-hour. However, as production ramps up and more applications emerge, this price gap is expected to narrow. China's sodium-ion battery production.

The global Sodium-ion Battery revenue was US\$ 138 million in 2023 and is forecast to a readjusted size of US\$ 12430 million by 2030 with a CAGR of 88.9% during the review period (2024-2030). In China the Sodium-ion Battery revenue is expected to grow from US\$ million in 2023 to US\$ million by 2030.

China Sodium-ion Battery Market is gaining traction as an emerging alternative to lithium-ion batteries, offering benefits of cost-effectiveness, abundant raw materials, and improved safety profiles. Ongoing innovations in cathode and anode materials are enhancing the energy density and cycle life. Will the sodium ion battery market remain dominant in 2030?

Frequency response markets pay for millisecond ramp capability, where sodium-ion cells sustain high power pulses without thermal runaway. Analysts see the sodium ion battery market share for utilities remaining dominant through 2030, supported by national storage mandates in China and multi-gigawatt auction programs emerging in India.

Which region has the largest sodium-ion battery market in 2024?

By region, Asia-Pacific accounted for 47% of the sodium-ion battery market size in 2024 and is progressing at a 20% CAGR to 2030. China's 14th Five-Year Plan features multi-gigawatt procurement rounds that exceed 100 MWh per tender, triggering an unprecedented production ramp across more than 240 GWh of announced sodium-ion capacity.

How big is the sodium-ion battery market?

Image © Mordor Intelligence. Reuse requires attribution under CC BY 4.0. The Sodium-ion Battery Market size is estimated at USD 0.47 billion in 2025, and is expected to reach USD 1 billion by 2030, at a CAGR of 16.63% during the forecast period (2025-2030).

How much is the sodium ion battery market worth in 2025?

The market stands at USD 465.21 million in 2025 and is forecast to reach USD 1,003.92 million by 2030, advancing at a 16.63% CAGR. Which application segment leads sodium-ion battery demand?

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What is the market share of sodium ion battery in 2024?

By application, stationary storage commanded 72% of the sodium ion battery market share in 2024; transportation is projected to expand at a 20% CAGR to 2030. By form factor, cylindrical cells led with 48% revenue share in 2024; pouch cells are forecast to grow at a 21% CAGR through 2030.

When will a sodium ion battery come out in India?

April 2025: CATL unveiled its new sodium-ion battery brand “Naxtra” with an energy density of 175 Wh/kg, set to enter mass production in December 2025.
February 2025: Trentar Energy Solutions partnered with KPIT Technologies to commercialise sodium-ion batteries in India through a 3 GWh manufacturing commitment targeting electric two-wheelers.

Sodium ion battery storage tender price in China 2030



Exclusive: sodium batteries to disrupt energy storage ...

With costs fast declining, sodium-ion batteries look set to dominate the future of long duration energy storage, finds an AI-based analysis that predicts technological breakthroughs based on global patent data.

The Race To Replace Lithium: Is Sodium the Future ...

Sodium-ion is perhaps the most compelling near-term challenger to lithium-ion, and many battery companies announced plans of major build out of sodium-ion manufacturing, promising pathways to lower prices than the ...



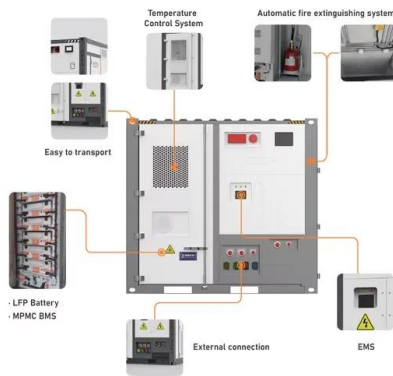
Sodium-ion batteries - a viable alternative to lithium?

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 manufacturing capacity under way, it remains unclear

What Are The Implications Of \$66/kWh Battery Packs In China?

China's battery packs plummet in price again. Hydrogen prices didn't decline and BNEF triples

its estimates for future costs. The implications are huge.



The Race To Replace Lithium: Is Sodium the Future of Batteries?

Sodium-ion is perhaps the most compelling near-term challenger to lithium-ion, and many battery companies announced plans of major build out of sodium-ion manufacturing, ...

Five Predictions for the 2030 EV Battery Market , IndustryWeek

Our Five Beliefs for the 2030 Battery Market 1. Lithium-ion batteries will remain dominant for the foreseeable future Lithium-ion batteries have dominated the global EV battery ...



THE CHINA BATTERY ENERGY STORAGE SYSTEM ...

In terms of BESS infrastructure and its development timeline, China's BESS market really saw take off only recently, in 2022, when according to the National Energy Administration (China) ...

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Sodium-ion Battery Market Size, Growth, Share

The sodium-ion battery market size for stationary systems is projected to expand at 17% CAGR to 2030 as policy-driven procurement accelerates in China and rising renewables penetration boosts storage ...

Revolutionizing Energy: China's Sodium-Ion Batteries Set to ...

Amidst soaring lithium prices, this resurgence marks a pivotal turn, with China poised to lead the charge in revolutionizing the global energy storage landscape.



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 manufacturing capacity under way, it remains unclear whether this promising ...

Exclusive: sodium batteries to disrupt energy storage market

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



Executive summary - Batteries and Secure Energy Transitions

- ...

Further innovation in battery chemistries and manufacturing is projected to reduce global average lithium-ion battery costs by a further 40% from 2023 to 2030 and bring sodium-ion batteries to ...

Global and China Sodium-ion Battery Market Report & Forecast ...

For China market, this report focuses on the Sodium-ion Battery market size by players, by Type, and by Application, for the period 2019-2030. The key players include the ...



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 benchmarking, material and cost analysis, key player patents, and 10 year ...

China Sodium-ion Battery Market Size and Forecasts 2031

In China Sodium-ion Battery Market, offering valuable insights, key market trends, competitive landscape, and future outlook to support strategic decision.



China announces procurement of sodium-ion batteries ...

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China Announces Sodium-Ion Battery Procurement at \$150/kWh

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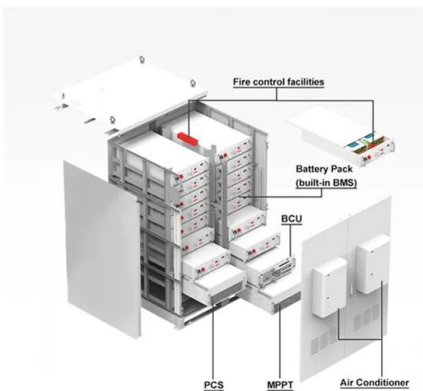


China launches world's first grid-forming sodium-ion ...

The Baochi Storage Station in Yunnan integrates lithium and sodium-ion technologies at scale, a global first, aiming to stabilize renewable energy and cut costs as China accelerates its energy transition.

Sodium-ion batteries: A real challenger or another

Energy storage is a dynamic battleground of evolving technologies where many make headlines, but few become commercial products. Since the formal launch of Sodium Ion Battery (SIB) cells in 2003, it has taken ...

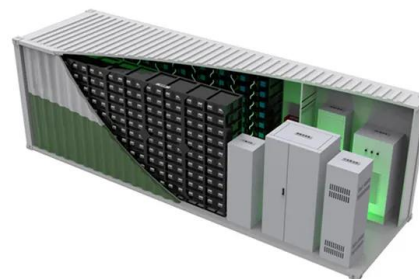


Sodium-ion Battery Market Size, Growth, Share & Competitive ...

China's sodium-ion battery production capacity--both operational and under construction--is estimated at around 10 GWh and is expanding rapidly. Looking ahead, if ...

2024 Sodium Battery Industry Development White ...

The price of sodium electrolyte will drop to 34,000 yuan/ton in 2025 and is expected to drop to 20,000 yuan/ton in 2030. The Starting Point Research Institute (SPIR) believes that the main application scenario of ...



Sodium-ion Battery Market Size And Share Report, 2030

The global sodium-ion battery market size was estimated at USD 321.75 million in 2023 and is projected to reach USD 74.74 billion by 2030, growing at a CAGR of 20.0% from 2025 to 2030

China Debuts World's First Grid-Forming Sodium-Ion Battery Plant

China has officially launched the world's first grid-forming Sodium-ion Battery energy storage facility. The Baochi Energy Storage Station, located in Yunnan province, comes ...



CHINA'S NA-ION BATTERY INDUSTRY RUSHING TO ...

production of NiBs is achieved in China, it will still take time to form a supply chain, ensure stable quality, and realize cost advantages. The "White Paper on the ...

Revolutionizing Energy: China's Sodium-Ion Batteries Set to ...

In a groundbreaking shift, SNE Research forecasts China's sodium-ion batteries to enter mass production by 2025, targeting two-wheelers, small EVs, and energy storage. By ...



Battery storage and renewables: costs and markets to 2030

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 ...

Sodium-Ion Batteries: Affordable Energy Storage for a ...

Discover how sodium-ion batteries offer a low-cost, eco-friendly alternative to lithium-ion, paving the way for efficient renewable energy storage.



'World's largest' sodium-ion battery energy storage ...

The energy storage station can store 100,000 kWh of electricity on a single charge, which can meet the needs of around 12,000 households for a day. (A 100 MWh-scale energy storage station using sodium-ion batteries went ...

Global and China Sodium-ion Battery Market Report & Forecast 2024-2030

Description Sodium-ion battery is an emerging product in the field of energy storage and power battery, which has been favored by the industry for its lower cost energy ...



EU expects battery pack price of less than \$100/kWh ...

The European Union's CETO has published the "Battery Technology in the European Union" report, which analyses batteries across the bloc and offers perspectives for the years ahead. The report focuses on solid ...

Powering the Future: The Rise of Chinese Sodium-ion Batteries ...

[Snapshot] 1. Sodium-ion batteries in China are emerging in the energy storage sector due to abundant raw material resources, high safety, a wide operating temperature range, and global ...



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