



Sodium-ion battery energy storage shipments





Overview

Are sodium batteries the future of energy storage?

Continued growth in demand and emerging innovations in both molten sodium and sodium-ion battery technologies promise new opportunities for sodium batteries to advance global energy storage. Erik D. Spoerke.

Are sodium ion batteries suitable for stationary storage solutions?

Their safety, cost-effectiveness, and performance in diverse environmental conditions make them suitable for stationary storage solutions. Sodium-ion batteries rely on different materials compared to lithium-ion batteries. The primary raw materials include: Sodium (Na): Extracted from salt, soda ash, or seawater, making it widely available.

What is energy storage sodium battery technology?

In the energy storage sodium battery technology, the sodium ion battery has better performance at high and low temperatures. The capacity retention rate is 70% at - 40°C, and it can be recycled at 80°C. At the level of energy storage system, the air conditioning power quota can be reduced, and there is room for cost reduction.

What is a sodium ion battery supply chain?

The sodium-ion battery supply chain consists of multiple stages: Raw Material Extraction & Processing: Mining and refining sodium and other necessary compounds. Electrode Manufacturing: Processing cathode and anode materials. Cell Production: Assembling battery cells in gigafactories.



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[Peak Energy launches first U.S. grid-scale ...](#)

Peak Energy's passively cooled sodium-ion system, part of a shared pilot with utilities and independent power producers (IPPs), targets ...

[EV battery leader CATL is gearing up for sodium-ion batteries ...](#)

The EV battery giant said its sodium-ion batteries will be used for battery swapping, passenger vehicles, commercial vehicles, and energy storage. CATL Choco-Swap ...



[China Completes Its First 100 MWh Sodium-Ion Battery Energy Storage ...](#)

[Shenzhen, China - October 2025] - China has officially completed its first 100 MWh sodium-ion battery energy storage station, marking a milestone in the nation's clean-energy transition and ...



[CATL confirms 2026 large-scale sodium-ion battery ...](#)

Analysts said the global sodium-ion battery industry is shifting from early commercialization toward scaled deployment, with current market use concentrated in energy ...



[The Global Supply Chain for Sodium-Ion Batteries: ...](#)

As industries transition toward more sustainable energy storage solutions, understanding the supply chain for sodium-ion batteries becomes crucial. This article explores the key ...



[Understanding IATA's new battery shipping ...](#)

As more manufacturers adopt sodium-ion technology, particularly for stationary energy storage and cost-sensitive applications, ...



[Peak Energy Unveils Game-Changing Sodium-Ion Battery ...](#)

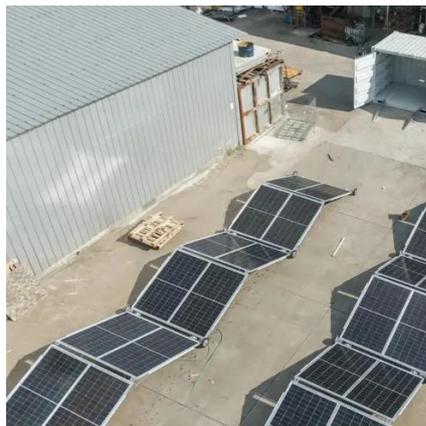
Peak Energy, a U.S.-based innovator in grid-scale energy storage, today announced the successful launch and shipment of its groundbreaking sodium-ion battery ...



[CATL to Deploy Sodium-Ion Batteries at Scale in 2026](#)



CATL plans large-scale sodium-ion battery deployment in 2026 for swap systems, EVs, and energy storage. Its Naxtra cells offer up to 175 Wh/kg energy density, -40 °C ...



[Sodium-ion battery for cheaper US grid ...](#)

The first sodium-ion BESS for grid-level electricity storage has become operational in the US with unique passive cooling system and ...



[Sodium-ion Battery Shipments Volume 2024: Falling](#)

As technological advancements, sodium-ion battery is poised to play a significant role in the future of energy storage and electric mobility.



[The Global Supply Chain for Sodium-Ion ...](#)

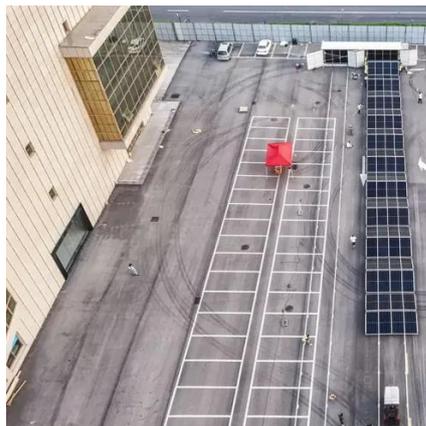
As industries transition toward more sustainable energy storage solutions, understanding the supply chain for sodium-ion batteries becomes crucial. ...



[Pylontech Obtains the World's First Sodium ...](#)



According to BNEF, the global installed capacity of energy storage expects to be 233GWh by the end of 2030, with the compound ...



[Sodium-ion Battery Shipments Volume 2024: ...](#)

As technological advancements, sodium-ion battery is poised to play a significant role in the future of energy storage and electric mobility.

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

Sodium-ion batteries (SIB) have recently emerged as an alternative to current lithium-ion batteries (LIB), using low-cost and abundant raw materials. However, previous assessments have come ...



[Global Li-ion battery shipments rise in 2024: EV Tank](#)

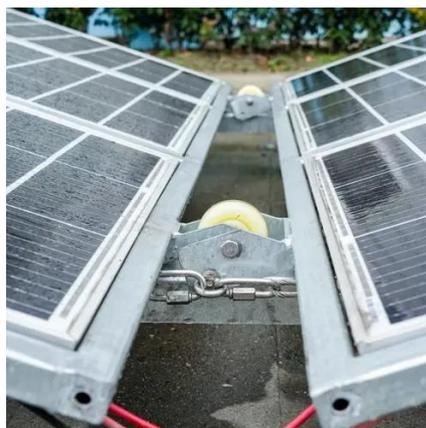
Global shipments of electric vehicle (EV) power batteries and energy storage batteries surged in 2024, and could continue growing until 2030, according to Chinese research institution EV Tank.



[Energy storage boom, supply-demand tensions, and ...](#)



By 2026, the total shipments of lithium batteries in China are expected to increase by nearly 30% year-on-year to exceed 2.3 TWh, with energy storage lithium battery shipments surpassing ...



[CATL's sodium-ion batteries hit record energy density ...](#)

The company claims its Naxtra cells reach around 175 Wh/kg, a record for sodium-ion batteries and close to what mainstream LFP packs offer today in electric vehicles ...

[No.1 in Sodium Battery Shipments in H1 2025 . Veken](#)

Veken Technology ranks No.1 in China's sodium battery shipments in H1 2025, leading innovation in energy storage and global OEM solutions.



[Battery Guidance Document](#)

Reference to "sodium ion battery" in this document, is to be taken as those that meet the testing and classification criteria for UN 3551, Sodium Ion Battery with organic ...

["Sodium ion battery industry technology ...](#)



Recently, the third sodium ion battery industry chain and standard development forum was held in Yangquan, Shanxi Province. ...



[Why China Is Winning the Battery Game: ...](#)

In conclusion, China's strategic initiatives, coupled with its substantial sodium resources, are positioning it as a leader in Sodium-ion ...

[CATL confirms significant upgrade to sodium-ion battery ...](#)

Chinese battery giant CATL has detailed a wider and larger-scale deployment of its sodium-ion battery range across multiple sectors, including battery storage. Chinese media ...





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