

Sodium-ion battery container





Overview

What is the largest sodium ion battery storage system in the world?

This project opened on June 30, 2024, with battery cells supplied by Zhongke Haina, making it the largest sodium-ion battery energy storage system in the world. The storage system consists of 42 battery containers and 21 integrated booster and conversion machines, in addition to a 110 kV booster station.

What is a sodium ion battery?

The sodium ion cells used in the project were provided by Sino-Science Sodium and the project marks a new stage in the commercial operation of sodium ion battery energy storage, the company said. Sodium ion batteries are cheap, recyclable, environmentally friendly, safe and are already showing impressive increases in power.

Are sodium ion batteries safe?

Sodium ion batteries are cheap, recyclable, environmentally friendly, safe and are already showing impressive increases in power. CATL, the world's largest lithium cell manufacturer, has been exploring the chemistry for a decade and has had an operating line working on their manufacture since 2021.

What is Datang Hubei sodium ion new energy storage power station?

The project represents the first phase of the Datang Hubei Sodium Ion New Energy Storage Power Station, which consists of 42 battery energy storage containers and 21 sets of boost converters. It uses 185 ampere-hour large-capacity sodium-ion batteries supplied by China's HiNa Battery Technology and is equipped with a 110 kV transformer station.

Are CATL batteries a watershed in sodium ion deployment?

Despite their lower power density — \$160Wh/kg compared to LFP of \$200Wh/kg — in April 2023 Chery Automobile fitted CATL batteries in a fleet of its cars. The Qianjiang facility could prove to be a watershed in sodium ion



deployment.

What is the world's largest Bess system using sodium ion technology?

Chinese companies are investing a lot into the sodium-ion technology space, and the world's largest BESS system using sodium-ion technology is there, a 100MW/200MWh system, half of which came online in summer. One of the technology providers on that project was China-based company called HiNa Battery.



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[What's the deal with sodium-ion batteries?](#)

Lithium-ion dominates the battery world, but alternative chemistries are finding their niches. I talk with Landon Mossburg, CEO of Peak Energy, about using sodium-ion batteries ...

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Hina Battery Unveils Massive Sodium-Ion Energy Storage System

The storage system consists of 42 battery containers and 21 integrated booster and conversion machines, in addition to a 110 kV booster station. This system can store 100,000 ...

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[World's largest sodium-ion BESS starts operation](#)

The Qianjiang power station, which consists of 42 battery energy storage containers and 21 sets of boost converters, uses 185Ah large-capacity sodium-ion batteries supplied by ...

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World's first 9 MWh energy storage system by CATL can power a ...

After announcing the world's first commercialized sodium-ion battery pack for electric vehicles that can travel more than 300 miles on a single charge, it has now launched ...



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

Chinese EV giant BYD has launched what an executive claimed is the 'world's first high-performance' sodium-ion BESS product, using its proprietary form factor Long Blade ...

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

The project represents the first phase of the Datang Hubei Sodium Ion New Energy Storage Power Station, which consists of 42 battery energy storage containers and 21 sets of ...

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[BYD Launches 2.3 MWh Sodium-Ion Battery for Grid Storage](#)

The second biggest battery producer in the world, BYD, has successfully created a sodium-ion battery pack that meets all the needs of a grid-level battery energy storage system ...

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[NAS Batteries , Products , NGK INSULATORS, LTD.](#)

The NAS battery is a megawatt-level energy storage system that uses sodium and sulfur. The NAS battery system boasts an array of superior features, including large capacity, high energy ...

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[Why Sodium-Ion Batteries Are a Promising Candidate for ...](#)

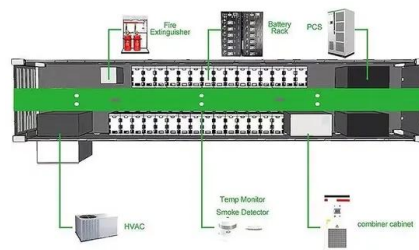
Battery Energy Storage Systems (BESS) paired with next-gen sodium-ion battery tech are playing an increasingly vital role in enhancing the reliability & efficiency of global ...

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Sodium-ion Batteries in Grid Storage: Current Projects and ...

Sodium-ion batteries (SIBs) are emerging as a promising alternative to lithium-ion batteries for large-scale energy storage applications, particularly in grid storage. With the ...

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Sodium-ion Batteries in Grid Storage: Current Projects and ...

Sodium-ion batteries offer several advantages, including abundant raw materials, lower costs, and enhanced safety features. This blog explores the current projects involving ...

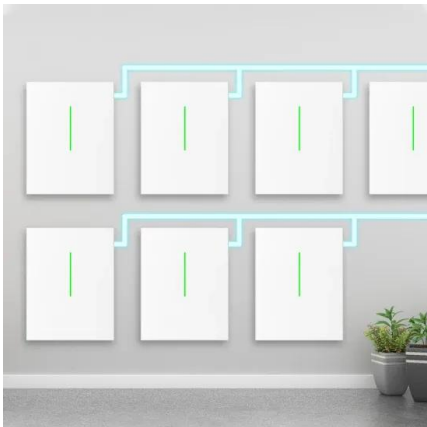
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[CATL Leads the Way with Sodium-Ion Battery Innovation](#)

Sodium-Ion Batteries: A New Era in Energy Storage In a major milestone for the energy sector, Contemporary Amperex Technology Co., Limited (CATL) introduces sodium-ion ...

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[\[SMM Analysis\] BYD Launches Sodium-Ion Grid-Level Energy ...](#)

In January this year, BYD began constructing a 30GWh sodium-ion battery factory in Xuzhou, China. BYD is the world's largest EV company and has expanded its lithium-ion ...

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Nacelle

Nacelle offers a next-generation sodium-ion battery technology designed to overcome the critical supply chain limitations of lithium-ion batteries. By using locally sourced, sustainable materials, ...

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BYD details first 2.3 MWh sodium-ion battery pack for grid-level ...

The world's second-largest battery maker BYD has managed to develop a sodium-ion battery pack covering all the requirements for a grid-level battery energy storage system ...

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