

# Sodium ion battery storage EPC turnkey quotation per 20kWh 2025





## Overview

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Are sodium-ion batteries the future of energy storage?

Sodium-ion batteries are being leveraged across multiple industries. Utility companies are at the forefront of their deployment, as demonstrated by HiNa Battery's 100MWh energy storage project. These batteries provide an affordable alternative for renewable energy grid storage, helping stabilize energy supply.

Are sodium-ion batteries competitive?

As of 2025, sodium-ion batteries are well-positioned to achieve cost parity with lithium-iron-phosphate (LFP) batteries, a key milestone for market competitiveness. With ongoing innovations and substantial investments, their adoption in energy storage systems, renewable grids, and budget EVs is expected to soar in the coming years.

What is a sodium ion battery?

This material delivers impressive energy density and stability, promoting scalability for both grid storage and EVs. The second-generation sodium-ion batteries introduced by Contemporary Amperex Technology Co., Limited (CATL) achieve energy densities of up to 200 Wh/kg, a significant improvement from earlier versions.

Can sodium-ion batteries achieve cost parity with lithium-iron-phosphate (LFP) batteries?

Their research focuses on achieving greater energy density and reducing costs, further accelerating the adoption of this promising technology. As of 2025, sodium-ion batteries are well-positioned to achieve cost parity with lithium-iron-phosphate (LFP) batteries, a key milestone for market competitiveness.

What is a second-generation sodium-ion battery?



The second-generation sodium-ion batteries introduced by Contemporary Amperex Technology Co., Limited (CATL) achieve energy densities of up to 200 Wh/kg, a significant improvement from earlier versions. These batteries also remain operational in extreme temperatures, as low as -40°C.

When will CATL start manufacturing a second-generation sodium-ion battery?

CATL plans to commence large-scale production of its advanced second-generation sodium-ion batteries in 2025. HiNa has already developed a versatile range of cylindrical, prismatic, and blade cells tailored for different applications.



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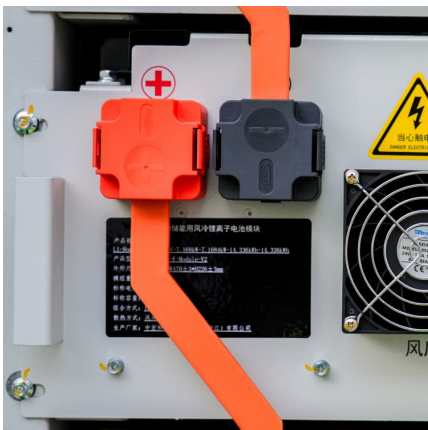
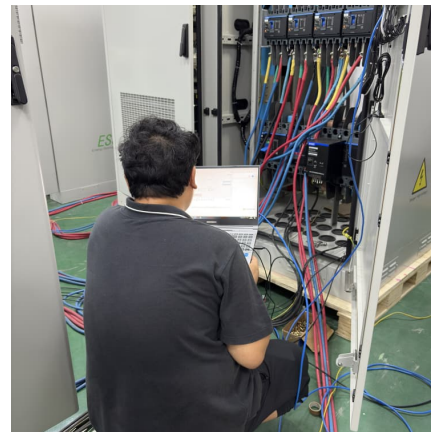


### China Deploys First Large-Scale Sodium-Ion Battery Energy ...

Sodium-ion batteries are emerging as a key energy storage technology for next-generation power systems, offering cost advantages, abundant raw materials, and a secure ...

### 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 ...



### Sineng Electric to Supply Energy Storage Solutions to the World's

Sineng's 2.5MW string PCS MV turnkey solution is meticulously designed to align with the sodium-ion battery energy storage system's wide DC voltage range, supporting ...

### Interview: Sodium ion batteries: The future of energy storage?

Sustainable alternatives to lithium-ion batteries are crucial to a carbon-neutral society, and in her Wiley Webinar, 'Beyond Li', at the upcoming



[Figure 1. Recent & projected costs of key grid](#)

The "Report on Optimal Generation Capacity Mix for 2029-30" by the Central Electricity Authority (CEA 2023) highlight the importance of energy storage systems as part of ...



[Sodium-ion batteries key for India's storage ...](#)

A new report says sodium-ion batteries (SIBs), made from abundant materials, could help India to reduce its dependence on imports to meet its energy storage needs.



[Top 10 Energy Storage Trends in 2023](#)

For 2023, we speculate that at least one major battery manufacturer will come out with a significant sodium-ion battery product roadmap announcement. In addition, we think that two major energy storage system ...





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

As we approach Q4 2025, analysts predict sodium-ion could capture 18% of the stationary storage market - up from just 3.7% in 2022. The question isn't if it'll disrupt lithium's ...



### **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 ...

### **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.



### [Critically assessing sodium-ion technology roadmaps and](#)

Sodium-ion batteries are considered a promising substitute for Li-ion, but the timeline and conditions for achieving cost-competitiveness remain uncertain. This study ...



[Critically assessing sodium-ion technology roadmaps ...](#)

Sodium-ion batteries are considered a promising substitute for Li-ion, but the timeline and conditions for achieving cost-competitiveness remain uncertain. This study evaluates their techno



**Sodium-ion battery**

A Sodium-ion battery (NIB, SIB, or Na-ion battery) is a rechargeable battery that uses sodium ions (Na +) as charge carriers. In some cases, its working principle and cell construction are similar to those of lithium-ion battery (LIB) types, ...

[A 2025 Update on Utility-Scale Energy Storage ...](#)

When developing an energy storage project, a project owner can engage an EPC contractor to provide a fully-wrapped EPC agreement that will encompass the procurement, installation, and commissioning of batteries.





### Real Cost Behind Grid-Scale Battery Storage: 2024 European ...

The rapidly evolving landscape of utility-scale energy storage systems has reached a critical turning point, with costs plummeting by 89% over the past decade. This ...

### Sodium-Ion Batteries at NOVONIX: Market Landscape, Materials ...

To get up to date information on our sodium ion materials availability for your cell builds of interest, please contact us and we will be happy to discuss options and pricing.



### [Sodium-ion battery technology: So near and yet so far](#)

Discover the possibilities of sodium-ion battery technology as a viable alternative to lithium-ion, addressing supply chain and environmental challenges in EVs.

### Sodium-ion Batteries: Inexpensive and Sustainable Energy ...

Sodium-ion batteries are an emerging battery technology with promising cost, safety, sustainability and performance advantages over current commercialised lithium-ion batteries. ...



### Top 18 Sodium-Ion Battery Manufacturers 2024: CATL, Northvolt, ...

Comprehensive analysis of global sodium-ion battery producers: \$30B market data, 160+ Wh/kg technologies, gigafactory maps, and procurement strategies for commercial buyers.

### China announces procurement of sodium-ion batteries with price ...

The innovative project located in a suburban district in the south of Shanghai will integrate five different energy storage technologies, including sodium-ion batteries. Its first ...



### SodiumBattery

Empowering businesses with precision, safety, and intelligence, they aim to redefine energy storage and sustainably shape its future. E-Bike Manufacturer C partnered with SodiumBattery ...



### [Sodium-Ion Battery Manufacturing Plant Report 2025](#)

A sodium-ion battery is a rechargeable battery that relies on sodium ions, rather than lithium ions, to transport charge during operation. It operates similarly to lithium-ion batteries but uses more ...



### [Sodium-Ion Battery Market Size, Share & Analysis, ...](#)

Sodium-Ion Battery Market size is estimated to be valued at US\$ 22.07 Bn in 2025 and is expected to expand at a CAGR of 14.0%, reaching US\$ 55.26 Bn by 2032.

### **Sodium-Ion Batteries Industry Report 2025-2034 Featuring Key ...**

The sodium-ion batteries market is set for substantial growth due to rising renewable energy adoption, such as solar and wind, and increasing demand for low-speed ...



### **Enabling renewable energy with battery energy storage systems**

These developments are propelling the market for battery energy storage systems (BESS). Battery storage is an essential enabler of renewable-energy generation, ...



### Sodium-ion battery fleet to grow to 10 GWh by 2025

Global demand for sodium-ion batteries is expected to grow to just under 70 GWh in 2033, from 10 GWh in 2025, at a compound annual growth rate (CAGR) of 27%, according to UK-based market research



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

China has officially announced the procurement of sodium-ion batteries, setting a price ceiling at \$150/kWh. This exciting development comes alongside the construction of a ...

### **Comprehensive review of Sodium-Ion Batteries: Principles, ...**

Sodium-ion batteries (SIBs) are emerging as a potential alternative to lithium-ion batteries (LIBs) in the quest for sustainable and low-cost energy storage solutions [1], [2]. The ...



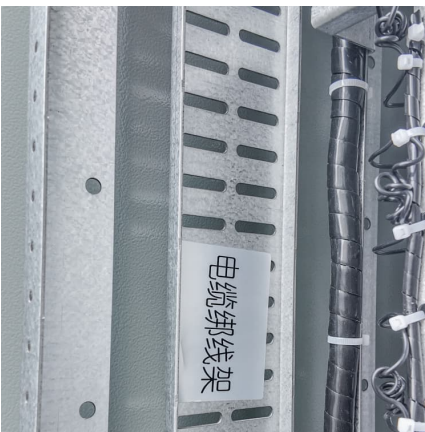


### **PNNL-Led Grid-Focused Alliance Drives Sodium-Ion Battery ...**

The Sodium-ion Alliance for Grid Energy Storage, led by PNNL, is focused on demonstrating high-performance, low-cost, safe sodium-ion batteries tested for real-world grid ...

### Ten GWh of sodium-ion batteries expected to be ...

A recent report by IDTechEx predicts that by 2025, around 10 GWh of sodium-ion batteries will be installed as significant manufacturing capacities come online and existing lithium-ion lines are



### Enabling renewable energy with battery energy ...

These developments are propelling the market for battery energy storage systems (BESS). Battery storage is an essential enabler of renewable-energy generation, helping alternatives make a steady contribution to the ...

### 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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