

Global PV Storage Insights

Successful bid price of sodium ion battery storage project in Sweden 2025



Overview

The sodium ion battery market size exceeded USD 270.1 million in 2024 and is set to grow at a CAGR of 26.1% from 2025 to 2034, due to the rising demand for cost-effective sustainable solutions with reduced supply chain risk is set to boost the product adoption.

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Sodium-ion batteries have gained significant attention in 2025 as the push for cost-effective and sustainable energy storage solutions intensifies. This innovative battery technology is emerging as a viable contender against Lithium-ion batteries, offering both economic and environmental benefits.

The energy storage sodium ion battery market is projected to grow from USD 307.4 million in 2025 to USD 2,932.0 million by 2035, at a CAGR of 25.3%. Sodium sulfur battery will dominate with a 48.0% market share, while aqueous will lead the technology segment with a 65.0% share. The energy storage.

Elmia Solar 2025 brought together key players in the solar and energy storage industry to discuss the latest developments, challenges, and opportunities. From financial performance data to grid constraints and cybersecurity threats, the conversations highlighted where the market is headed - what.

In February 2024, Kingshine cancelled its proposed 6 GWh sodium-ion battery facility in Jiangxi Province. Likewise, Veken Tech has postponed its 2 GWh project, originally set for completion in December 2024, now rescheduled to begin operations in December 2025. These setbacks underscore the ongoing.

Sodium-ion batteries are expected to be used for stationary energy storage in the future, but also for various vehicles, in particular smaller vehicles such as two-/three-wheelers and smaller electric cars. The aim of this project is to try to project future production and use of sodium-ion.

Lithium-ion's spectacular growth has exposed hard limits—price spikes for lithium and nickel, fire-safety worries, and a supply chain concentrated in just a few countries. Sodium is 500 × more abundant than lithium and costs pennies per kilogram at commodity scale. Swapping copper current. How big is the sodium ion battery market?

The global sodium ion battery market was valued at USD 270.1 Million in 2024 and is set to grow at a CAGR of 26.1% from 2025 to 2034. Rising demand for cost-effective sustainable solutions with reduced supply chain risk is set to boost product adoption.

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.

Who makes sodium ion batteries?

Some of the major players in the sodium ion battery industry include Altris, Broadbit Batteries, CATL, China BAK Battery, Farasis Energy, Faradion Limited, HiNa Battery Technology, Li-FUN Technology, Natron Energy, SVOLT, and Tiamat. How much sodium ion battery share captured by North America in 2024?

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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.

Will sodium ion batteries increase energy density?

This company continues to progress in the development of sodium-ion batteries with the intent to increase energy density and market their solutions as substitutes for lithium-ion batteries. In December 2022, Svolt Energy unveiled its inaugural sodium-ion battery prototype, boasting an energy

density of 100 Wh/kg.

How much money is needed to improve sodium ion battery technology?

In December 2024, the U.S. DOE, in collaboration with the LENS Consortium supervised by Argonne National Laboratory, has announced an investment of USD 50 million over 5 years to improve sodium ion battery technology.

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Sodium-Ion Battery Market: Impressive CAGR Forecast Until 2033

The Sodium-ion Battery market is experiencing significant growth, driven by a rising demand as a sustainable alternative to Lithium-ion batteries. In 2024, the global market ...

Sodium-ion batteries in 2025: a snapshot of the fast-emerging

...

Lithium-ion's spectacular growth has exposed hard limits--price spikes for lithium and nickel, fire-safety worries, and a supply chain concentrated in just a few countries. ...



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 to create a custom, cost-effective, sustainable ...

Critically assessing sodium-ion technology roadmaps ...

Sodium-ion batteries have garnered notable attention as a potentially low-cost alternative to lithium-ion batteries, which have experienced

supply shortages and price volatility for key minerals.

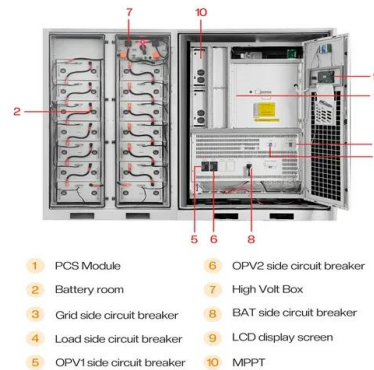


What's Currently Happening in Sodium-Ion Batteries? 2025

Sodium-ion batteries have gained significant attention in 2025 as the push for cost-effective and sustainable energy storage solutions intensifies. This innovative battery ...

CATL to Produce Second-Generation Sodium-Ion ...

CATL has announced the second generation of its sodium-ion battery. According to Chief Scientist Wu Kai, it is set to hit the market in 2025, with mass production expected to begin in 2027.



ESS



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 ...

Sweden Sodium Ion Battery Market (2025-2031) , Growth & Outlook

Our analysts track relevant industries related to the Sweden Sodium Ion Battery Market, allowing our clients with actionable intelligence and reliable forecasts tailored to emerging regional needs.



Northvolt in new sodium-ion battery breakthrough

Sodium-ion batteries are seen as a cheaper and safer alternative to the lithium-based batteries widely used for energy storage because they work better at both very high and ...

World's Largest Sodium-ion Battery Energy Storage ...

(Yicai) July 1 -- China Datang said the first phase of its sodium-ion battery new-type energy storage power station project in Qianjiang, Hubei province, the largest such project in the world, has become operational. The projects will ...



Sodium-ion batteries need breakthroughs to compete

Do's and don'ts for sodium-ion For the batteries to compete on price, specifically against a low-cost variant of the lithium-ion battery known as lithium-iron-phosphate, the study highlights

Energy Storage Systems (ESS) Projects and Tenders

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The Largest Energy Storage Portfolio in the Nordic Countries ...

In August 2025, the largest battery energy storage system in France was energized at the port of Nantes-Saint-Nazaire. The Cheviré project was developed by British ...

Energy Storage Sodium Ion Battery Market

1 ??· The energy storage sodium ion battery market is projected to grow from USD 307.4 million in 2025 to USD 2,932.0 million by 2035, at a CAGR of 25.3%. Sodium sulfur battery will dominate with a 48.0% market share, while aqueous ...



Battery storage market Sweden

Battery energy storage in Sweden is evolving fast. Discover key insights from Elmia Solar 2025 on profitability, financing, grid constraints, and cybersecurity.

Sodium-ion Batteries 2025-2035: Technology, ...

This has intensified the search for alternative energy storage chemistries, with sodium-ion batteries (SIBs or Na-ion batteries) emerging as a ...



Battery storage market Sweden

Elmia Solar 2025 reinforced that the energy transition in Sweden is accelerating, but challenges remain. Battery storage is proving its value, but developers need better financing, optimized operations, and stronger cybersecurity to scale ...

Sodium-Ion Batteries: Commercial Potential and Future Possibilities

Sodium-ion batteries are emerging as a promising alternative in the energy storage market. With growing interest from industry leaders and investors, this technology is ...



Northvolt develops state-of-the-art sodium-ion battery

Stockholm, Sweden - Northvolt today announced a state-of-the-art sodium-ion battery, developed for the expansion of cost-efficient and sustainable energy storage systems worldwide. The cell has been validated for a best-in-class ...



On par with lithium-ion

Cheaper and more sustainable batteries are key to decarbonize the global energy system, and sodium-ion batteries that use far fewer critical materials are an important ...



Top 6 Sodium-Ion Battery Companies in 2025

The company supplied the world's first 100MWh sodium-ion energy storage project in 2024. By producing multiple cell formats like prismatic, blade, and cylindrical, HiNa ...

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 ...



Lithium Solar Generator: \$150



Sodium-ion batteries face uphill struggle to beat lithium-ion on ...

A new Stanford University study finds that there are several several key routes that sodium-ion battery developers can take to compete on price, specifically against a low ...

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.



1075KWHH ESS



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 ...

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 ...



Natron Energy Stock Analysis: Understanding the Private Sodium-Ion

The company operates within the energy storage and battery manufacturing sector. It specifically focuses on the emerging sodium-ion battery industry that offers cost ...

CATL to Produce Second-Generation Sodium-Ion Battery

CATL has announced the second generation of its sodium-ion battery. According to Chief Scientist Wu Kai, it is set to hit the market in 2025, with mass production ...



Technology Strategy Assessment

About Storage Innovations 2030 This technology strategy assessment on sodium batteries, released as part of the Long-Duration Storage Shot, contains the findings from the Storage ...

European Sodium-Ion Battery Cells Now a Reality , Stora Enso

Sodium-ion offers a complementary solution to lithium-ion--cost-effective and based on abundant materials. Read about european sodium-ion battery cells here!



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