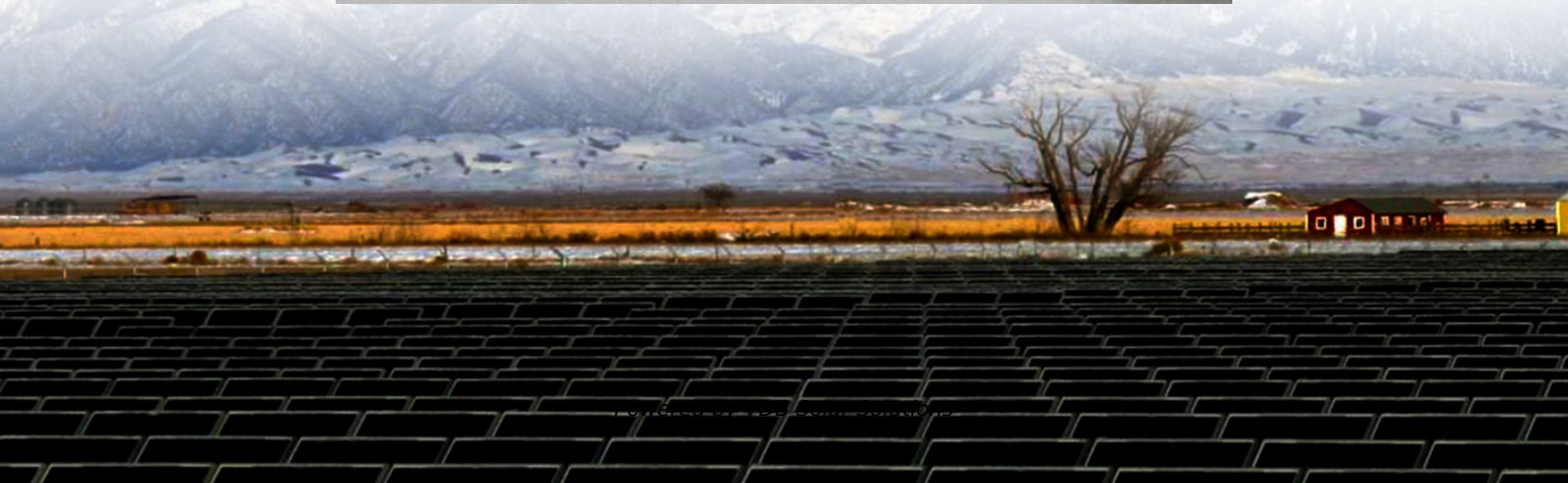


# **Sodium ion battery storage investment return analysis 2025**





## Overview

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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.

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The Sodium-ion Battery Market is predicted to grow to a valuation of US\$ 22.07 billion by 2025. By 2032, this market is anticipated to reach US\$ 55.26 billion, achieving a compound annual growth rate (CAGR) of 14% between 2025 and 2032. Sodium-ion batteries provide a cost-effective and sustainable.

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. Growing adoption of environmentally friendly.

This has intensified the search for alternative energy storage chemistries, with sodium-ion batteries (SIBs or Na-ion batteries) emerging as a key solution. Within this report, the prospects and key challenges for the commercialization of SIBs are discussed. As global electrification accelerates.

Sodium-ion Battery by Application (Power Battery, Energy Storage System), by Types (Layered Oxide, Prussian, Polyanionic Compound), by North America (United States, Canada, Mexico), by South America (Brazil, Argentina, Rest of South America), by Europe (United Kingdom, Germany, France, Italy).



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. What is the market size of sodium ion battery in 2024?

The sodium ion battery held around 22.1% share in 2024. 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.

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.

What is a sodium ion battery?

\*Definition: The sodium-ion battery market refers to the market for rechargeable battery technology that uses sodium ions as charge carriers instead of lithium ions. Sodium-ion batteries have the potential to provide low-cost energy storage solutions with performance comparable to lithium-ion batteries.

What is the growth rate of sodium-ion battery market?

Sodium-Ion Battery Market is growing at a CAGR of 13.8% over the next 7 years. Aquion Energy, Zhejiang Lvming Energy (Durathon), Faradion Limited, Panasonic Corporation, HiNa Battery Technology and many more major companies operating in this Market.

What challenges does the sodium-ion battery market face?

The sodium-ion battery market currently faces several challenges. The performance of sodium-ion batteries still cannot match the high energy density of lithium-ion batteries. Additionally, sodium-ion batteries suffer from issues related to cycling stability and efficiency.

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.



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### Energy Storage Sodium Ion Battery Market, Size ...

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 stable batteries that reduce fire and explosion risks ...

### Sodium-ion batteries: state-of-the-art technologies and future

Sodium-ion batteries (SIBs) are a prominent alternative energy storage solution to lithium-ion batteries. Sodium resources are ample and inexpensive. This review provides a ...



### 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 ...



### 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 ...



### White paper BATTERY ENERGY STORAGE SYSTEMS ...

The majority of newly installed large-scale electricity storage systems in recent years utilise lithium-ion chemistries for increased grid resiliency and sustainability. The capacity of lithium ...



### 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 ...



### Battery Energy Storage System Market Size, Trends & Regional Analysis

The global battery energy storage system market size was estimated at USD 10.16 billion in 2025 and is anticipated to grow from USD 12.61 billion in 2026 to USD 86.87 billion by 2034, growing ...





### Utility-Scale Battery Storage , Electricity , 2024 , ATB , NREL

The battery storage technologies do not calculate levelized cost of energy (LCOE) or levelized cost of storage (LCOS) and so do not use financial assumptions. Therefore, all parameters are ...

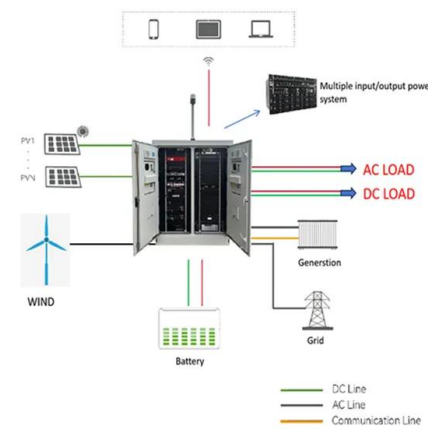


### SMM Insights: H1 2025 Sodium Battery Industry Recap: Material ...

In the first half of 2025, all segments of the sodium-ion battery industry chain demonstrated significant growth. However, the industry also faced concurrent challenges of ...

### 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 Wiley Analytical Science ...



### ?SMM Analysis?CATL Unveils New Generation Sodium-Ion Battery...

On April 21, 2025, at CATL's first Super Technology Day event, the highly anticipated sodium-ion battery was officially unveiled. The newly released sodium-ion battery includes two major ...



### Energy Storage Rides a Wave of Growth but Uncertainty Looms: ...

This report comes to you at the turning of the tide for energy storage: after two years of rising prices and supply chain disruptions, the energy storage industry is starting to see price ...



### Sodium-Ion Battery Market Size 2025: Growth, Trends, and ...

With continuous innovation and investment, sodium-ion batteries will play an essential role in shaping the global energy landscape from 2025 to 2032. This market report ...

### Sodium-Ion Battery Market Size, Share & Analysis, ...

According to the sodium-ion battery market forecast, sodium-ion batteries have huge potential for energy storage, driven by the increasing need for grid stabilization and renewable integration.



### Sodium Ion Battery Market Size, Growth Opportunity ...

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 ...



### 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 Battery Manufacturing Plant Project Report 2025

These batteries offer cost-effectiveness and the abundance of sodium compared to lithium. This makes them a potentially more sustainable and economically viable option for ...

### Energy Storage Sodium Ion Battery Market , Global ...

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 ...



12.8V 200Ah



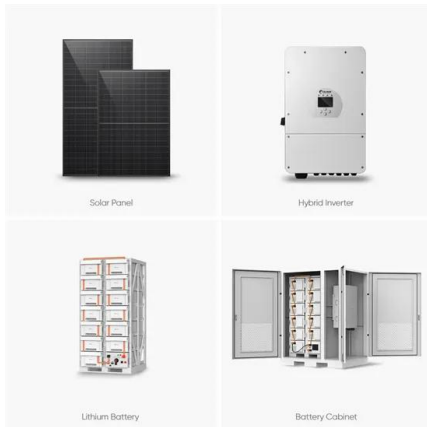
### Sodium-Ion Battery Electrolyte Growth Opportunities and Market ...

The sodium-ion battery electrolyte market is experiencing robust growth, projected to reach \$153 million in 2025 and exhibiting a Compound Annual Growth Rate ...



## Stanford Study Highlights Sodium-Ion Battery Potential

Though sodium-ion cell prices are critical, they are part of broader considerations for large-scale applications, such as grid-scale energy storage systems. Peak Energy and other companies are making strides in ...



## Advancements in sodium-ion batteries: An in-depth scientometric ...

Sodium-ion batteries (SIBs) are emerging as a scalable, cost-effective alternative to lithium-based technologies for large-scale energy storage. However, a systematic, data-driven understanding ...

## 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 ...



## Germany Sodium-ion Battery Market Size and Forecast 2025-2033

Germany Sodium-ion Battery Market Size & Forecast 2025-2033 Germany's Sodium-ion Battery Market is expected to expand substantially from US\$ 9.03 million in 2024 to US\$ 18.41 billion ...





### Powering the EU's future: Strengthening the battery industry

An important development in EU battery policy was the establishment of the European Battery Alliance (EBA) in 2017 - an industry-led cooperation platform tasked with spurring investment ...

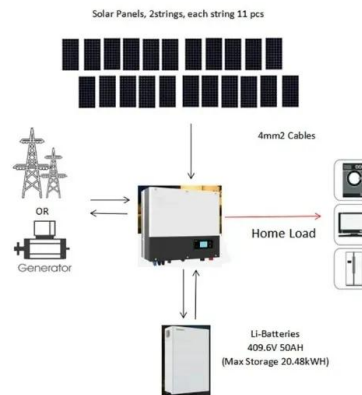


### Sodium-ion batteries in 2025: a snapshot of the fast-emerging ...

What is happening in the world of Sodium Ion batteries in 2025? Are they emerging to replace Li-Ion? The benefits are low cost & high cycle life

### Sodium-Ion Battery Manufacturing Plant Project ...

IMARC Group's report, " Sodium-Ion Battery Manufacturing Plant Project Report 2024: Industry Trends, Plant Setup, Machinery, Raw Materials, Investment Opportunities, Cost and Revenue," offers a comprehensive guide ...



### Sodium-Ion Battery Market Size 2025: Growth, Trends, and ...

The demand for stationary energy storage systems and Electric Vehicles is accelerating the adoption of sodium-ion batteries. These batteries offer benefits like ...



## Solid State Sodium Ion Battery in Focus: Growth Trajectories and

The global solid state sodium ion battery market is expected to reach USD 7.6 billion by 2033, exhibiting a CAGR of 38.9% during the forecast period (2023-2033). The ...



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

Bottom line: With CATL's Naxtra heading for mass production and more than 100 GWh of cumulative capacity now financed across three continents, sodium-ion is no longer ...

## Sodium-Ion Battery Conference , August 12-13, 2025 , Chicago, ...

Sodium-ion batteries are being explored as a viable substitute for conventional Li-ion battery technologies. Sodium is more abundant and less expensive than lithium, leading to lower ...



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