

# Sodium battery energy storage demand in 2025







#### **Overview**

The energy storage sodium ion battery market is estimated to be valued at USD 307.4 million in 2025 and is projected to reach USD 2932.0 million by 2035, registering a compound annual growth rate (CAGR) of 25.3% over the forecast period. What is the global sodium-ion battery market size?

The global sodium-ion battery market size is accounted for USD 1.17 billion in 2024 and is anticipated to reach around USD 6.83 billion by 2034, growing at a CAGR of 19.30% from 2024 to 2034. The operation of sodium-ion batteries is the same as that of other commercially available batteries, such as lithium-ion batteries.

How many sodium-ion batteries will be installed by 2025?

As global commercialization efforts for sodium-ion batteries intensify, IDTechEx forecasts 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 converted to sodium-ion production.

What is the global demand for sodium ion batteries?

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 company IDTechEx. Sodium-ion batteries have at least 30% lower energy density than lithium-ion.

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.

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.

Are sodium-ion batteries a good investment?

Due to the inherent advantages of sodium-ion batteries, the quick adoption of intermittent energy sources like wind and solar, as well as the rising popularity of low-speed electric vehicles like e-rickshaws and e-bikes, the market for sodium-ion batteries is predicted to expand at a healthy rate.



### Sodium battery energy storage demand in 2025



#### **Energy Storage Sodium Ion Battery Market**

2 days ago. 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 ...

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# Another Sodium Energy Storage Startup Vows To Carry On After ...

4 days ago. The US startup Inlyte continues to plan for commercial production of its new sodiumiron battery, designed for long duration renewable energy storage (courtesy of Inlyte).



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#### 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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# Global Commodities Outlook: Battery Minerals for a Growing Energy

Battery minerals are becoming essential to the rapid expansion of battery energy storage systems (BESS) worldwide As renewable energy sources grow in capacity, so does ...







#### <u>Sodium Batteries Reach Industrial Explosion</u> <u>Point in 2025!</u>

Meanwhile, SIBs are gaining traction across multiple sectors--including electric vehicles (EVs), commercial vehicles, e-bikes, automotive start-stop systems, and energy ...

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### <u>Sodium Ion Battery Market Size, Growth</u> <u>Opportunity 2025-2034</u>

Rising demand for batteries well suited for gridscale energy storage will support the product growth due to their high thermal stability and long cycle life of 5,000+ cycles. Ongoing projects

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### **Applications**





### Sodium-Ion Battery Market Size to Hit USD 6.83 Billion by 2034

The global sodium-ion battery market size accounted for USD 1.17 billion in 2024, grew to USD 1.39 billion in 2025 and is predicted to surpass around USD 6.83 billion by 2034, ...



### The Battery Energy Storage System (BESS) Market in ...

In this article, I dive deep into the electrochemical (battery-based) energy storage market, the technologies in play, market trends, and some big questions ...

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### Global Demand for Energy Storage Expected to

Driven by growth in renewable energy deployments, combined with high energy costs from natural disasters and increasing concerns around ...

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In 2024, Na-ion batteries have advanced in both energy storage and EV applications, marked by several product launches and key operational ...

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

If the cost and durability promises hold through 2026 field deployments, the chemistry is poised to grab double-digit market share in grid storage and short-range electric ...



### Advancing energy storage: The future trajectory of lithium-ion battery

Lithium-ion batteries are pivotal in modern energy storage, driving advancements in consumer electronics, electric vehicles (EVs), and grid energy storage. This review explores ...

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#### <u>Sodium Ion Battery Market Size, Growth</u> <u>Opportunity ...</u>

Rising demand for batteries well suited for gridscale energy storage will support the product growth due to their high thermal stability and long cycle life of ...

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Analysts at Astute Analytica project that energy storage deployment in emerging markets could grow by over 40% annually through 2025, creating a robust market for sodium ...

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#### The Sodium Battery Landscape

Recent advancements in sodium energy storage highlight its potential. Continue reading the Electria Group blog to find out more about sodium technologies and the future of ...



#### Sodium Batteries Reach Industrial Explosion Point in ...

Meanwhile, SIBs are gaining traction across multiple sectors--including electric vehicles (EVs), commercial vehicles, e-bikes, ...

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### Sodium-ion batteries need breakthroughs to compete

A thorough analysis of market and supply chain outcomes for sodium-ion batteries and their lithium-ion competitors is the first by STEER, a ...

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#### United States Sodium-ion Battery Market Size and Forecast 2025 ...

United States Sodium-ion Battery Market Size & Forecast 2025-2033 The United States Sodiumion Battery Market is expected to grow substantially, increasing from US\$ 55.32 million in 2024 ...

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#### Sodium-Ion Battery Market Size to Hit USD 6.83 Billion by 2034

As global commercialization efforts for sodiumion batteries intensify, IDTechEx forecasts that by 2025, around 10 GWh of sodium-ion ...



### Energy Storage in 2025: What's Hot and What's Next?

The energy storage landscape is changing quickly as scientists work to create better and longer-lasting storage solutions. Experts are focused on improving smart grids to ...

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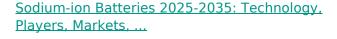




### Sodium Battery Revolution: A Turning Point for Industrialization in 2025

This year is anticipated to mark a turning point in the accelerated industrial development of sodium batteries, with 2025 potentially being recognized as the true "Year of ...

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In 2024, Na-ion batteries have advanced in both energy storage and EV applications, marked by several product launches and key operational milestones. However, setbacks in large-scale ...

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### 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 ...



### The Race To Replace Lithium: Is Sodium the Future ...

Such advances and new battery chemistries generally are worth pursuing, the researchers said. The Department of Energy's 2022 energy ...

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#### Japan's Shift from Lithium to Sodium Batteries: A

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By reducing dependence on critical mineral imports, Japan is enhancing its energy security and diversifying its battery supply chain, which

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

As global commercialization efforts for sodiumion batteries intensify, IDTechEx forecasts that by 2025, around 10 GWh of sodium-ion batteries will be installed as significant

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