

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.



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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

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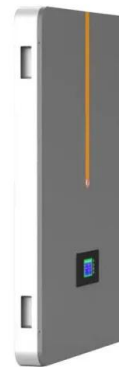




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As global commercialization efforts for sodium-ion batteries intensify, IDTechEx forecasts that by 2025, around 10 GWh of sodium-ion batteries will be installed as significant

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