

Sodium ion battery storage cost breakdown in Australia 2026

What is the global market for sodium-ion batteries 2026-2036?

Dublin, June 19, 2025 (GLOBE NEWSWIRE) -- The "Global Market for Sodium-ion Batteries 2026-2036" report has been added to ResearchAndMarkets.com's offering. The sodium-ion battery market is experiencing unprecedented momentum as industries worldwide seek sustainable, cost-effective alternatives to traditional lithium-ion technology.

Could sodium-ion batteries be the future of energy storage?

Still in its infancy, sodium-ion battery buildouts are now being announced at pace, as prophesied in January by BloombergNEF's Top 10 Energy Storage Trends in 2023. "An alternative to lithium-ion batteries, sodium-ion battery technology offers could alleviate battery-market pressures -- and potentially push down costs -- as soon as 2026," it said.

How much will sodium ion batteries cost in 2028?

Assuming a similar capex cost to Li-ion-based battery energy storage systems (BESS) at \$300/kWh, sodium-ion batteries' 57% improvement rate will see them increasingly more affordable than Li-ion cells, reaching around \$10/kWh by 2028.

Is Australia ready to produce lower cost sodium batteries from 2025?

Home & Storage & Battery & Australia storage start up says it is ready to produce lower cost sodium batteries from 2025 An artist impression of the PowerCap battery. (Supplied)

Are sodium-ion batteries a viable alternative to lithium-ionic batteries?

The sodium-ion battery market is gaining significant traction as a sustainable and cost-effective alternative to lithium-ion technology. With sodium priced at \$0.05 per kilogram compared to lithium's \$15, sodium-ion batteries offer a 300-fold cost advantage in raw materials.

Why should Australia adopt sodium-ion batteries?

Sustainable production: Locally produced sodium-ion batteries reduce emissions associated with international transport. By adopting sodium-ion technology, Australia can lead by example in integrating clean energy solutions with environmentally conscious practices.

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With costs fast declining, sodium-ion batteries look set to dominate the future of long-duration energy storage, finds AI-based analysis that predicts technological breakthroughs based on global patent data.

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The scale of the reduction suggests that in addition to the falling cost of batteries--BNEF's recent Lithium-ion Battery Price Survey found that battery pack prices fell 20% year-on-year to 2024, again the biggest drop ...

Fledgling Queensland company PowerCap has launched a sustainable and safe energy storage solution to the market, positing a future where a reliable and affordable clean ...

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

The project has laid a strong foundation for the cutting-edge sodium-ion battery technology in Australia, and has positioned UOW and Australia in a leading rank for long-term exploitation of ...

In 2022, Bluetti announced a sodium ion solar battery for home use that is not yet available for sale, but is worth keeping an eye out for. Considering sodium ion batteries are not yet ...

Current Year (2022): The 2022 cost breakdown for the 2024 ATB is based on (Ramasamy et al., 2023) and is in 2022\$. Within the ATB Data spreadsheet, costs are separated into energy and ...

The Growing Market for Sodium-Ion Batteries Although Lithium-ion batteries dominate the market, sodium-ion technology is gaining traction due to its cost-effectiveness ...

Cost remains a key factor in the commercial viability of sodium-ion batteries. HiNa Battery estimates that by 2025, the energy density and cell costs of its sodium-ion ...

Executive Summary In this work we describe the development of cost and performance projections for utility-scale lithium-ion battery systems, with a focus on 4-hour duration ...

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A now-ex graphene battery maker in Queensland says it is just weeks away from starting sales on a sodium battery product, and says it has a list of clients waiting for installations. PowerCap says ...

"Cost-effective and abundant - sodium batteries challenge lithium-ion as alternative energy storage" - Procurement Australia - Discusses the cost and sustainability ...

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The Ultimate Guide to Sodium-Ion Battery Pricing and Technology As the demand for sustainable energy

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solutions grows, sodium-ion batteries are emerging as a viable ...

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