

Sodium-ion Battery - Company Evaluation Report, 2025

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Report description:

The Sodium-ion Battery Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Sodium-ion Battery. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and industry trends. MarketsandMarkets 360 Quadrants evaluated over 140 companies, of which the Top 15 Sodium-ion Battery Companies were categorized and recognized as the quadrant leaders.

A sodium-ion (Na-ion) battery is a type of rechargeable battery that functions by moving sodium ions between a cathode and an anode, similar to the "rocking-chair" mechanism of its lithium-ion counterpart. The critical distinction and primary advantage is its reliance on sodium, an element that is thousands of times more abundant in the Earth's crust and oceans than lithium. This abundance makes sodium-ion technology a potentially much cheaper and more sustainable alternative for energy storage, free from the supply chain vulnerabilities and geopolitical tensions associated with lithium and cobalt mining.

The market for sodium-ion batteries is gaining significant momentum, driven by the intense global demand for cost-effective energy storage solutions. They are particularly well-suited for stationary applications, such as storing energy for power grids from solar or wind farms, where their lower energy density and heavier weight are less of a concern. The technology's inherent safety benefits, including lower risk of thermal runaway, and superior performance in cold weather also make it an attractive option for affordable electric vehicles, e-scooters, and backup power systems in emerging markets.

However, the technology faces notable challenges that currently limit its widespread adoption. Sodium-ion batteries possess a lower energy density than mature lithium-ion technologies, meaning they are larger and heavier for the same amount of stored energy, making them less ideal for high-performance, long-range EVs. As a less mature technology, the manufacturing ecosystem and supply chains are still under development. Further research is required to improve their long-term cycle life and performance to compete directly across all segments currently dominated by lithium-ion.

The 360 Quadrant maps the Sodium-ion Battery companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Sodium-ion Battery quadrant. The top criteria for product footprint evaluation included Battery Type [Sodium Sulfur Batteries, Sodium Salt Batteries, Sodium Air Batteries, Other Battery Types], End-Use Industry [Automotive, Industrial, Energy Storage, Other End-Use Industries], Technology (Aqueous and Non-aqueous).

Key Players:

Major vendors in the Sodium-ion Battery market are Faradion, Contemporary Amperex Technology Co., Ltd., Tiamat Energy, HiNa Battery Technology Co., Ltd., and Jiangsu Zoolnasm Energy Technology Co., Ltd. The key strategies major vendors implement in

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the Sodium-ion Battery market are partnerships, collaborations, product launches, and product enhancements.

Faradion

Faradion, a UK-based pioneer of sodium-ion battery technology, is now a crucial part of India's Reliance Industries. The company holds a world-leading intellectual property portfolio for sodium-ion cells, offering a low-cost and sustainable alternative to lithium-ion. Strategically, Faradion is leveraging Reliance's capital to establish large-scale manufacturing in India, aiming to power affordable electric vehicles and grid-level energy storage. By combining its cutting-edge British research with Indian manufacturing prowess, Faradion is poised to become a dominant force in the global push for accessible energy storage solutions. Contemporary Amperex Technology Co., Ltd.

Contemporary Amperex Technology Co., Ltd. (CATL) is the world's largest manufacturer of electric vehicle and energy storage batteries, dominating the global supply chain. The Chinese giant provides a vast portfolio of lithium-ion products to nearly every major automaker. Strategically, CATL is diversifying its technological base, having already commercialized its first-generation sodium-ion batteries for the low-cost EV market while investing in next-generation solid-state tech. Through massive global manufacturing expansion and securing raw material supply chains, CATL is reinforcing its unparalleled leadership and shaping the future of electrification worldwide.

Tiamat Energy

Tiamat Energy is a French pioneer in sodium-ion battery technology, emerging as a key European player in the alternative energy storage market. A spin-off from the French research network CNRS, Tiamat focuses on developing high-power sodium-ion cells, prioritizing fast charging, long cycle life, and safety. Its strategy targets industrial applications like power tools and hybrid vehicle starter batteries, where its technology offers a distinct advantage. By scaling up production at its new French gigafactory, Tiamat aims to secure Europe's technological sovereignty and establish itself as a leader in high-power battery solutions.

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