

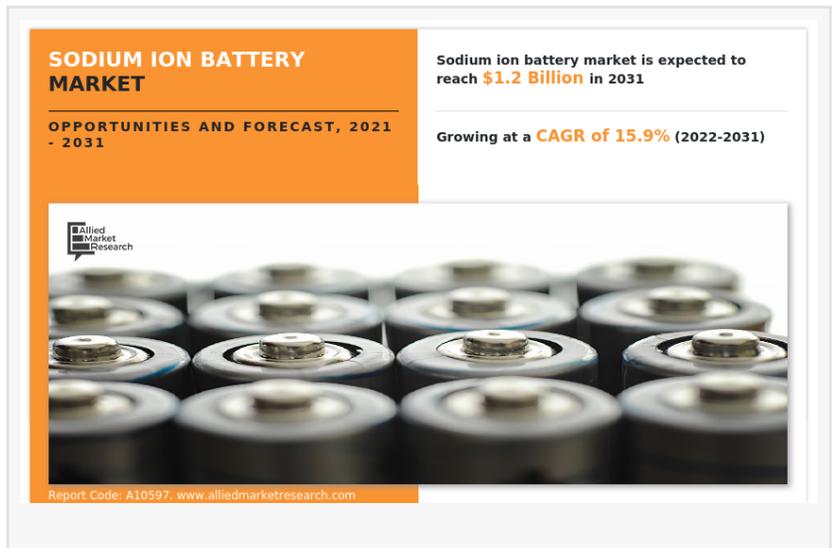
# Sodium Ion Battery Market Surges Ahead: Forecast to Quadruple by 2031, Powered by EVs and Stationary Storage

Sodium ion battery market to reach \$1.2 Bn by 2031 driven by electric vehicles, energy storage, and demand for affordable clean power.

WILMINGTON, DE, UNITED STATES, June 30, 2025 /EINPresswire.com/ --

Sodium-Ion Battery Market Overview: A Rising Star in Clean Energy Storage

According to a report published by Allied Market Research, the [sodium ion battery market](#) size was valued at \$0.3 billion in 2021 and is projected to reach \$1.2 billion by 2031, growing at an impressive CAGR of 15.9% from 2022 to 2031.



With growing demand for sustainable energy solutions and electric vehicles (EVs), sodium ion batteries are emerging as a cost-effective and safer alternative to lithium-ion batteries.



Global Sodium ion battery market to reach \$1.2 Billion by 2031 driven by electric vehicles, energy storage, and demand for affordable clean power.

*Allied Market Research*

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What Are Sodium Ion Batteries?

Sodium ion batteries operate by de-intercalating sodium

ions from the cathode to the anode during the charging process. These batteries demonstrate excellent electrochemical performance, such as high charge-discharge efficiency and strong reversibility.

While their energy density is lower than lithium-ion batteries, sodium ion batteries compensate

with:

- Abundant raw materials
- Lower cost of production
- Greater thermal stability and safety
- Regional Market Insights
- Europe Leads the Charge

Europe currently holds the largest share of the global sodium ion battery market. Stringent carbon emission regulations and rapid green technology advancements have encouraged battery manufacturers to adopt sodium-based alternatives.

Additionally, cost-effective manufacturing and increased funding in renewable storage are further boosting the European sodium ion battery industry.

- Key Market Drivers
- EV Revolution

As the electric vehicle (EV) industry accelerates, the demand for low-cost, [sustainable battery technologies](#) has never been higher. Sodium ion batteries are now being tested and deployed in new EV models, offering manufacturers a way to reduce costs without compromising safety.

- Easy Integration into Existing Infrastructure

Battery makers find it easier to transition from lithium-ion to sodium ion technology, as existing lithium production equipment can be used to manufacture sodium-based cells.

- Stationary Energy Storage Growth

Sodium ion batteries are becoming increasingly popular in grid-scale and industrial energy storage applications. Their cost-effectiveness and performance make them ideal for stationary [energy storage systems \(ESS\)](#).

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- Dominant End-Use Segments
- Industrial Applications

The industrial sector leads the market share. Sodium ion batteries are used in:

Backup power systems

Renewable energy utilities

Manufacturing operations

□ Stationary Energy Storage

The stationary energy storage segment is expected to expand rapidly. These systems include:

Battery arrays

Inverters

Electronic control systems

Thermal management units

They are essential for stabilizing the grid and storing intermittent renewable energy from sources like solar and wind. □□□

□ Applications Across Sectors

Automobiles & EVs: Emerging as a viable replacement for Li-ion in next-gen electric vehicles.

Aerospace & Marine: Attractive for long-haul and heavy-duty transport.

Consumer Electronics: Safer and more affordable batteries for gadgets and appliances.

Energy Utilities: Widely adopted for storing solar and wind power.

□ Challenges & Opportunities

□□ Challenges:

Lower energy density compared to lithium-ion

Technology still in early commercial stages

Infrastructure adaptation required for mass deployment

## □ Opportunities:

Ideal for applications where compactness is not a priority

Reduced dependency on rare or expensive metals

Government support and investment in battery R&D

## □ Major Market Players

Key companies shaping the global sodium ion battery market include:

CATL

Faradion

Natron Energy

HiNa Battery

Ronbay Technology

Zoolnash

Natrium

Kishida Chemical

Panasonic

Mitsubishi Chemical

These players are innovating in both stationary storage and automotive battery segments, driving global adoption of sodium ion technology. □□

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## □ Recent Developments

□ CATL Launches First Commercial Sodium Ion Battery

In July 2021, China-based CATL launched its first sodium ion battery product, focusing on stationary energy storage.

#### □ Faradion Enters Australian Market

In April 2020, UK-based Faradion received its first international order from ICM Australia, signaling global commercialization of its high-energy sodium ion batteries.

#### □ The Future of Battery Tech

The broader battery technology market is forecast to exceed \$400 billion by 2030, up from \$142.3 billion in 2022. With demand soaring in EVs, electronics, and grid storage, sodium ion batteries will play a key role in this transition. □□

As battery innovation accelerates, sodium ion batteries are expected to fill the affordability and sustainability gap, especially in markets where lithium availability is constrained.

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Pawan Kumar, the CEO of Allied Market Research, is leading the organization toward providing high-quality data and insights. We are in professional corporate relations with various companies and this helps us in digging out market data that helps us generate accurate research data tables and confirms utmost accuracy in our market forecasting. Each and every data presented in the reports published by us is extracted through primary interviews with top officials from leading companies of domain concerned. Our secondary data procurement methodology includes deep online and offline research and discussion with knowledgeable professionals and analysts in the industry.

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