

Sodium-Ion Battery Market Set for 15.9% CAGR Growth Through 2031

Sodium-Ion Battery Market to Hit \$1.2 Billion by 2031, Driven by Cost-Effective Energy Storage Demand

WILMINGTON, DE, UNITED STATES,
December 9, 2025 /EINPresswire.com/

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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 a CAGR

of 15.9% from 2022 to 2031. Sodium ion (Na-ion) batteries are gaining momentum as a cost-effective and sustainable alternative to lithium-ion batteries. Offering high electrochemical performance, reversibility, and reliable discharge capacity, sodium ion batteries are increasingly being adopted in electric vehicles (EVs), marine, aerospace, and industrial energy storage applications.

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Sodium-ion battery market to grow from \$0.3B (2021) to \$1.2B by 2031, driven by low-cost materials, grid storage demand, and sustainable alternatives.”

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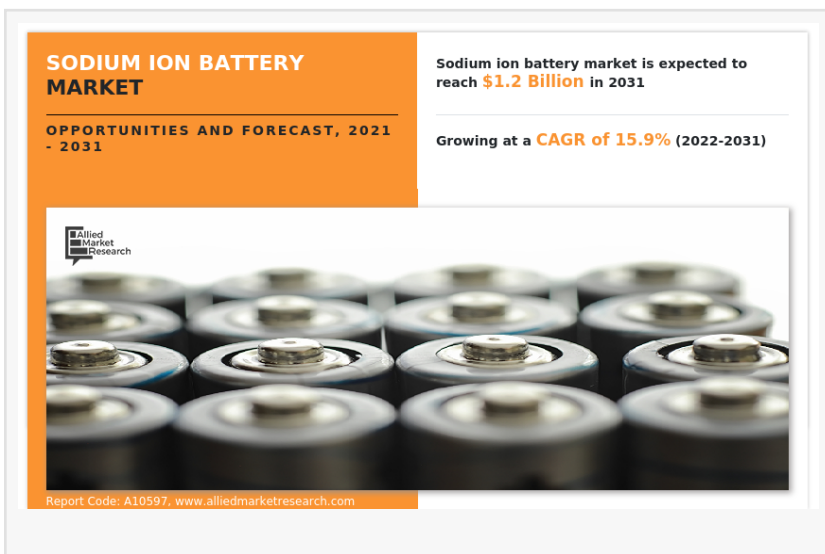
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With sodium metal abundantly available, these batteries promise long-term sustainability and affordability, making them a vital solution in the global transition toward clean energy.

Market Drivers □

Several factors are fueling the rapid growth of the sodium ion battery market:

□ Cost-effectiveness compared to lithium-ion due to cheaper raw materials.



- Widespread availability of sodium, ensuring long-term sustainability.
- Growing adoption in EVs, industrial backup systems, and renewable storage.
- Compatibility with existing Li-ion manufacturing equipment, easing transition.
- Safer and more stable chemistry, reducing risks of overheating.

Although sodium ion batteries currently have lower energy density than lithium-ion, continuous R&D and technological advancements are expected to bridge this gap in the coming years.

Applications Across Industries □□□

Sodium ion batteries are being adopted across multiple sectors:

Automotive & EVs – offering a sustainable, low-cost alternative to lithium-ion for future electric vehicles.

Industrial backup power – widely used in manufacturing industries for uninterrupted energy supply.

Stationary energy storage – critical for storing solar and wind energy to stabilize grids.

Marine & aerospace – providing stable, durable, and eco-friendly energy solutions.

Their versatility makes sodium ion batteries an integral part of [renewable integration](#) and global electrification efforts.

Market Segmentation Insights □

By Application

Industrial applications dominate the global sodium ion battery market due to widespread use in backup power and manufacturing.

Residential and commercial segments are also gaining traction as demand for UPS systems and renewable integration rises.

By End-use

Stationary energy storage leads the market, with applications in solar, wind, and grid-scale projects.

Transportation is expected to be the fastest-growing segment, as EV adoption accelerates worldwide.

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By Region

Europe dominates the market due to stringent carbon regulations, clean energy policies, and rapid technological adoption.

North America and Asia-Pacific are witnessing steady growth, driven by renewable projects and EV penetration.

LAMEA is emerging with rising investments in energy infrastructure and renewable integration.

Impact of COVID-19

The pandemic reshaped the demand for sodium ion batteries:

- Surge in UPS and stationary storage demand as remote work increased.
- Delays in solar and wind projects due to supply chain disruptions temporarily reduced demand.
- Accelerated global shift to renewables and clean energy, creating long-term opportunities for sodium ion battery adoption.

Competitive Landscape

The [sodium ion battery industry](#) is highly competitive, with global players focusing on innovation, capacity expansion, and strategic partnerships. Key companies include:

CATL

Faradion Ltd.

Natron Energy

HiNa Battery

Ronbay Technology

Panasonic

Mitsubishi Chemical

Key Developments

July 2021 – CATL launched its first sodium ion battery product for stationary energy storage and renewable integration.

April 2020 – Faradion Ltd. received its first order from ICM Australia, expanding its global footprint in sodium ion solutions.

NAIMA Project (EU-funded) – Backed by €8 million, this initiative aims to develop next-generation sodium ion cells for storage applications.

The Future of Sodium Ion Batteries □

Sodium ion batteries provide sustainability, affordability, and safety, making them a strong contender in the global battery industry. While their lower energy density remains a challenge, technological progress and large-scale investments are expected to enhance their competitiveness against lithium-ion.

With applications in EVs, renewable energy storage, and industrial backup, sodium ion batteries are positioned as a key enabler of the clean energy transition. Europe currently leads the market, but Asia-Pacific and North America are quickly catching up with rising R&D and infrastructure investments.

Key Findings of the Study □

Europe held the largest sodium ion battery market share in 2021 and will maintain dominance.

The industrial segment was the leading application sector.

Stationary energy storage was the largest end-use category.

EV adoption and renewable integration are set to fuel future growth.

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Conclusion □

The sodium ion battery market is on track to grow fourfold by 2031, supported by the shift to

clean energy, EV adoption, and large-scale storage solutions. With leading manufacturers such as CATL, Faradion, and Panasonic pushing advancements, sodium ion batteries are emerging as a sustainable, cost-effective, and safe alternative to lithium-ion.

As the world embraces decarbonization, sodium ion technology is expected to play a central role in powering the next generation of electric vehicles, renewable grids, and industrial applications.
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