

Global PV Storage Insights

Sodium ion battery storage tender price in Indonesia 2025



Overview

The development of lithium-ion and sodium-ion technologies, alongside innovations like solid-state batteries, are enhancing the efficiency and cost-effectiveness of energy storage solutions in Indonesia.

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The first quarter of 2025 marks a pivotal period for the Battery Energy Storage Systems (BESS) market in Indonesia. Driven by the nation's commitment to expanding renewable energy capacity and integrating sources like solar and wind into its national grid, the demand for BESS is on an upward.

The global sodium ion battery market was valued at USD 270.1 Million in 2024 and is set to grow at a CAGR of 26.1% from 2025 to 2034. Rising demand for cost-effective sustainable solutions with reduced supply chain risk is set to boost product adoption. Growing adoption of environmentally friendly.

Sodium-ion technology is often positioned as a lower-cost alternative to lithium-ion, but initial pricing may be higher than expected. According to IDTechEx research, the average Na-ion cell cost is currently ~US\$87/kWh, considering variations in chemistry and manufacturing scale. Over time.

The Indonesia Sodium-ion Battery Market is projected to grow from USD 450 million in 2025 to USD 2.9 billion by 2031, at a CAGR of 35.2% during the forecast period. This rapid growth is driven by expanding applications in grid storage, increasing EV adoption, and technological advancements reducing.

The energy storage sodium ion battery market is projected to grow from USD 307.4 million in 2025 to USD 2,932.0 million by 2035, at a CAGR of 25.3%. Sodium sulfur battery will dominate with a 48.0% market share, while aqueous will lead the technology segment with a 65.0% share. The energy storage.

The Indonesia Sodium-Ion Battery market is poised for growth, driven by increasing demand for sustainable energy solutions, advancements in battery

technology, and government initiatives to promote renewable energy. The Indonesia sodium-ion battery market is reaching a valuation of USD 3 billion in. 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.

How big is the sodium ion battery market?

The global sodium ion battery market was valued at USD 270.1 Million in 2024 and is set to grow at a CAGR of 26.1% from 2025 to 2034. Rising demand for cost-effective sustainable solutions with reduced supply chain risk is set to boost product adoption.

Who makes sodium ion batteries?

Some of the major players in the sodium ion battery industry include Altris, Broadbit Batteries, CATL, China BAK Battery, Farasis Energy, Faradion Limited, HiNa Battery Technology, Li-FUN Technology, Natron Energy, SVOLT, and Tiamat. How much sodium ion battery share captured by North America in 2024?

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Will sodium ion batteries increase energy density?

This company continues to progress in the development of sodium-ion batteries with the intent to increase energy density and market their solutions as substitutes for lithium-ion batteries. In December 2022, Svolt Energy unveiled its inaugural sodium-ion battery prototype, boasting an energy density of 100 Wh/kg.

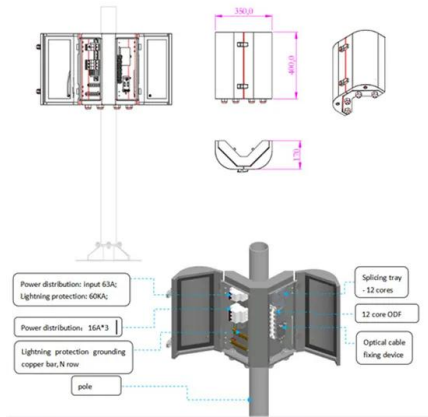
How much money is needed to improve sodium ion battery technology?

In December 2024, the U.S. DOE, in collaboration with the LENS Consortium supervised by Argonne National Laboratory, has announced an investment of USD 50 million over 5 years to improve sodium ion battery technology.

How long does a sodium ion battery last?

A group of scientists from University of Maryland and University of Adelaide created a new aqueous sodium-ion battery in 2024 with a life expectancy of more than 13,000 charge cycles.

Sodium ion battery storage tender price in Indonesia 2025



Batteries for Stationary Energy Storage 2025-2035: ...

Batteries for Stationary Energy Storage 2025-2035: Markets, Forecasts, Players, and Technologies 10-year forecasts on Li-ion BESS. Analyses on players, project pipelines, grid-scale & residential BESS markets, technology trends & ...

On March 17, the tender announcement for "Sodium-Ion Battery ...

It is reported that the total capacity of the sodium-ion battery energy storage system is 5 MW/20 MWh, with a tender price of 22 million yuan, equivalent to 1.1 yuan per Wh.



Sodium-Ion Battery Conference , August 12-13, 2025 , Chicago, ...

Sodium-ion batteries are being explored as a viable substitute for conventional Li-ion battery technologies. Sodium is more abundant and less expensive than lithium, leading to lower ...

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news, latest hydrogen news and much more. This magazine is published by CES in collaboration with IESA.

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Product Model
 HJ-ESS-215A(100KW/215KWh)
 HJ-ESS-115A(50KW 115KWh)

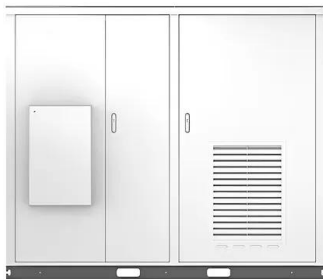
Dimensions
 1600*1280*2200mm
 1600*1200*2000mm

Rated Battery Capacity
 215KWH/115KWH

Battery Cooling Method
 Air Cooled/Liquid Cooled



Solar



Sodium-ion study says technology needs breakthroughs

A new study from Stanford says that sodium-ion batteries will need more breakthroughs in order to compete with lithium-ion (Li-ion).

Indonesia Sodium-Ion Battery Market: Transforming ...

Discover how Indonesia's sodium-ion battery market is driving sustainable energy with cost-effective, safe, and scalable solutions for renewables and electric.

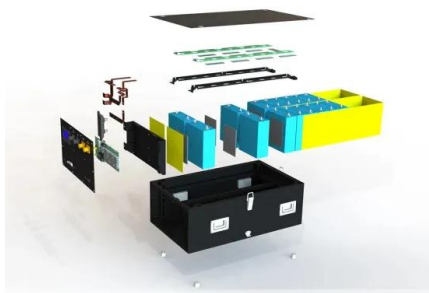


Energy Storage Systems (ESS) Projects and Tenders

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Sodium-ion: The Three Big Promises of Sodium-Ion ...

Sodium-ion batteries are emerging as a compelling alternative to lithium-ion, offering a unique blend of material abundance, system compatibility, and enhanced safety. As the energy storage market searches for ...



Electric vehicle batteries - Global EV Outlook 2025 - ...

Despite enthusiasm waxing and waning as a result of material supply chain challenges and falling lithium prices in 2023 and 2024, CATL - the world's largest battery producer - announced its second generation of sodium-ion batteries in ...

Indonesia Battery Market 2025-2033 Overview: ...

Despite these obstacles, the Indonesian battery market is anticipated to grow as technological advancements progress and as both public and private sectors invest in energy storage solutions and EV infrastructure, ...



Indonesia Sodium-ion Battery Market Size and Forecasts 2031

The Indonesia Sodium-ion Battery Market is projected to grow from USD 450 million in 2025 to USD 2.9 billion by 2031, at a CAGR of 35.2% during the forecast period.

Sodium-Ion Battery Price Trends: A Comprehensive Guide for 2023

Understanding Sodium-Ion Battery Pricing
Sodium-ion batteries are becoming increasingly competitive in the energy storage market. As reported by [poweringautos](#), the ...



Indonesia Battery Energy Storage Systems Market Report

The development of lithium-ion and sodium-ion technologies, alongside innovations like solid-state batteries, are enhancing the efficiency and cost-effectiveness of energy storage solutions ...

Technology Strategy Assessment

About Storage Innovations 2030 This technology strategy assessment on sodium batteries, released as part of the Long-Duration Storage Shot, contains the findings from the Storage ...



China Announces Sodium-Ion Battery Procurement at \$150/kWh

China has officially announced the procurement of sodium-ion batteries, setting a price ceiling at \$150/kWh. This exciting development comes alongside the construction of a ...

Indonesia Sodium Ion Battery Market (2025-2031) , Competitive ...

Market Forecast By Type (Sodium-Sulphur Battery, Sodium-Salt Battery, Sodium-Air Battery), By Application (Stationary Energy Storage, Transportation) And Competitive Landscape



Indonesia Sodium-ion Battery Market Size and Forecasts 2031

In Indonesia Sodium-ion Battery Market, offering valuable insights, key market trends, competitive landscape, and future outlook to support strategic decision.

CATL's Sodium-Ion Batteries: A Cost-Effective Alternative to Lithium

CATL, the world's largest battery manufacturer, is making significant strides in Sodium-ion Battery technology. During an investor call on March 20, 2025, the company ...



Lithium-Ion Battery Pack Prices See Largest Drop ...

New York, December 10, 2024 - Battery prices saw their biggest annual drop since 2017. Lithium-ion battery pack prices dropped 20% from 2023 to a record low of \$115 per kilowatt-hour, according to analysis by research provider ...

SMM Insights: H1 2025 Sodium Battery Industry ...

In the first half of 2025, all segments of the sodium-ion battery industry chain demonstrated significant growth. However, the industry also faced concurrent challenges of technological route changes, cost pressures, and ...

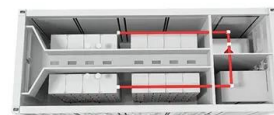


Current Prices and Market Trends for Sodium-ion Batteries and ...

```markdown ### Sodium-Ion Battery Market Update #### Price Overview Here's a summary of the current prices for various sodium compounds relevant to the sodium-...

## Sodium-Ion Batteries Programme and Their

Sodium-ion battery (SIB) technology can potentially address the concerns surrounding LIBs and emerge as an alternative BESS technology. SIBs benefit from limited reliance on critical ...



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ETN news is the leading magazine which covers latest energy storage news, renewable energy news, latest hydrogen news and much more. This magazine is published by CES in ...

## Advancements and challenges in sodium-ion batteries: A ...

Sodium is abundant and inexpensive, sodium-ion batteries (SIBs) have become a viable substitute for Lithium-ion batteries (LIBs). For applications including electric vehicles ...



## Indian 1 GWh battery storage tender yields lowest ...

NTPC Vidyut Vyapar Nigam Ltd (NVVN)'s tender for 1,000 MWh (500 MW x 2 hours) of standalone battery energy storage systems (BESS) with viability gap funding in Rajasthan has resulted in tariffs range from INR 2.16 ...

## Sodium-ion batteries face uphill struggle to beat lithium-ion on ...

A new Stanford University study finds that there are several several key routes that sodium-ion battery developers can take to compete on price, specifically against a low ...



## Global Market for Sodium-ion Batteries 2026-2036: Sodium-Ion Battery

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 ...

## Sodium Ion Battery Market Size, Growth Opportunity ...

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 ...



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48V or 51.2V



## Energy Outlook 2025: Energy Storage

Furthermore, if the price of lithium-ion batteries in China continue to drop in 2025, this will support battery energy storage systems becoming more profitable.

## Sodium-Ion Battery Market Size 2025: Growth, Trends, and ...

Sodium-ion Battery Market The Sodium-ion Battery Market is predicted to grow to a valuation of US\$ 22.07 billion by 2025. By 2032, this market is anticipated to reach US\$ ...



## CATL Introduces First Mass-Produced Sodium-Ion Battery

CATL has officially unveiled the Naxtra Battery, claiming it to be the world's first Sodium-ion Battery produced on a mass scale. The announcement at CATL's Super Tech Day ...

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