

## Global PV Storage Insights

# Expected ROI of sodium ion battery storage project in Italy 2026



## Overview

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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.

Does Italy have a battery storage market?

The research and analysis conducted for this report were supported by the European Climate Foundation. This report is part of a series that analyses the battery storage market in select European countries. Italy has both a rapidly growing utility-scale market as well as a flourishing customer-sited battery storage market.

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.

## Expected ROI of sodium ion battery storage project in Italy 2026



### Enfinity Global sells stake in energy storage projects ...

Enfinity Global has sold a 49% minority stake in two energy storage projects in the US and Italy to Daiwa Energy & Infrastructure, a major player in alternative investments.

### 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 ...



### EU expects battery pack price of less than \$100/kWh ...

That trend is expected to continue. In 2026/27, the average pack price is expected to fall below \$100/kWh, based on raw material costs, competition, and pressure from alternative technology such as Na-ion ...

### 1H 2023 Energy Storage Market Outlook

The US is by far the largest market, led by a pipeline of large-scale projects in California, the Southwest and Texas. The US has a seen a wave

of project delays due to rising ...



## 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 's offering. The sodium-ion ...

## Australia's sodium-ion energy storage technology launches in ...

The initial launch will cover Italy, Germany, and Spain, with further expansion on the cards. The starting price is expected to be around EUR500 per kilowatt-hour of storage capacity.



## Italy Sodium Ion Battery Market (2024-2030) , Trends, Analysis, ...

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

## Italy's Energy Storage Revolution: Powering 2025 and Beyond

This "double-layer" approach handles both daily load-shifting and sudden grid fluctuations. But wait, isn't lithium expensive? New sodium-ion batteries using Mediterranean seawater ...

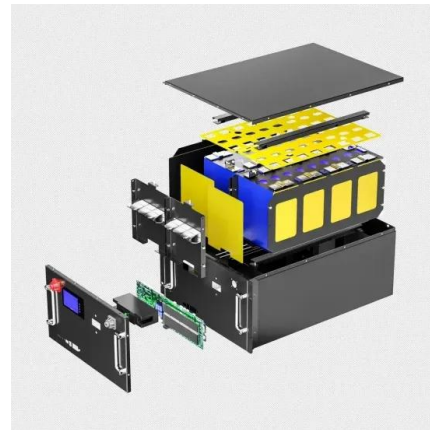


## Sodium Ion Battery Market Size, Growth Opportunity ...

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 ...

## China Unveils World's Largest Sodium-ion Battery ...

Next year is the first year of mass production of sodium-ion batteries, and by 2026, the industrial chain is expected to tally CNY48.4 billion (USD6.9 billion), it added. The project group will promote the technological ...



## Germany to develop sodium-ion battery technology

A German consortium of 15 working groups led by battery supplier Varta has started development of industrial-scale sodium-ion battery technology, as Europe looks to compete with China on ...

## Sodium-ion batteries are expected to enter a mature ...

6 ???· 2026, Sodium-ion battery is approaching Sodium-ion batteries are expected to enter a mature stage of industrialization in 2026.



## Energy Storage in Europe

Note: Required spread for a two-hour battery project assuming revenues cover project costs of EUR360,000/MWh in 2024, for previous years assumes BNEF's Europe energy storage system ...

## Comprehensive review of Sodium-Ion Batteries: Principles, ...

Sodium-ion batteries (SIBs) are emerging as a potential alternative to lithium-ion batteries (LIBs) in the quest for sustainable and low-cost energy storage solutions [1], [2]. The ...



LFP 12V 100Ah

## United States Electric Vehicle Sodium-ion Battery Market ROI ...

United States Electric Vehicle Sodium-ion Battery Market Size and Forecast 2026-2033 United States Electric Vehicle Sodium-ion Battery Market size was valued at USD ...

## Battery Report 2024: BESS surging in the "Decade of ..."

In this second instalment of our series analysing the Volta Foundation 2024 Battery Report, we explore the continued rise of Battery Energy Storage Systems (BESS).



## 1H 2023 Energy Storage Market Outlook

The US is by far the largest market, led by a pipeline of large-scale projects in California, the Southwest and Texas. The US has seen a wave of project delays due to rising battery costs. Despite this, US utilities continue ...

## [SMM Sodium-Ion Battery Analysis] 2024 Sodium-Ion ...

[Review and Outlook of Sodium-Ion Batteries in 2024: Overseas Progress of Sodium-Ion Batteries - Stepping Onto the Starting Line] Sodium-ion batteries, as an emerging energy storage technology, have rapidly ...

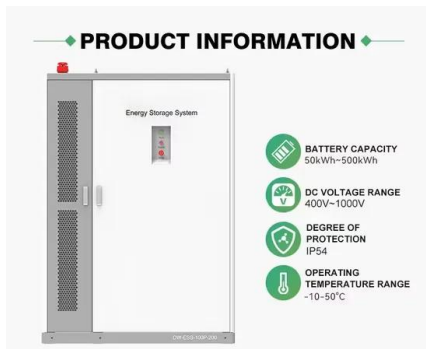


## Understanding the Return of Investment (ROI): battery energy storage ...

Several key factors influence the ROI of a BESS. In order to assess the ROI of a battery energy storage system, we need to understand that there are two types of factors to keep in mind: ...

## European Market Outlook for Battery Storage 2024-2028

SolarPower Europe has published its new "European Market Outlook for Battery Storage", covering 2024-2028. The study delves into the specifics of the residential, C& I and ...



## Sineng Electric launches world's largest sodium-ion ...

Sineng Electric's 50 MW/100 MWh sodium-ion battery energy storage system (BESS) project in China's Hubei province is the first phase of a larger plan that will eventually reach 100 MW/200 MWh. The

## Sodium-ion batteries , Current status of the ...

Sodium-ion batteries offer several advantages over lithium-ion batteries, including improved performance at lower temperatures and a reduced supply chain dependency. The sodium-ion battery offers a significant ...



## Sustainable European sodium-ion batteries for stationary

The growing demand for stationary energy storage solutions highlights the need for alternatives to lithium-ion batteries. Sodium-ion batteries offer a promising solution due to ...



## Israel's N2OFF, Italy's Solterra plan 784 MWh of ...

The agreement provides for the construction of two battery energy storage systems (BESS) in Sicily, each with a capacity of 98 MW/392 MWh.



114KWh ESS













## Exploring the Promise of Sodium-Ion Batteries

Accenture's Project Manager Jonathan Helbig talks about insights into Sodium-ion batteries--advantages, challenges, future commercialization, and more.

## Top 10 Battery Manufacturers In Italy

In this article, we will explain the top 10 battery manufacturers in Italy, including well-established local names such as FAAM, MIDAC Batteries, and Italtvolt and notable ...



## New entrants drive sodium ion battery capacity growth ...

Sodium ion battery capacity is surging as an additional 50 gigawatt-hours (GWh) are expected to come online this year along with 14 new market entrants, taking global capacity to 70 GWh, according to Benchmark's Sodium ion Battery ...

## What's Currently Happening in Sodium-Ion Batteries? 2025

Sodium-ion batteries have gained significant attention in 2025 as the push for cost-effective and sustainable energy storage solutions intensifies. This innovative battery ...



## European Market Outlook for Battery Storage 2025-2029

The European Market Outlook for Battery Storage 2025-2029 analyses the state of battery energy storage systems (BESS) across Europe, based on data up to 2024 and ...

## Energy Storage Sodium Ion Battery Market

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 ...



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

The sodium-ion battery market is experiencing unprecedented momentum as industries worldwide seek sustainable, cost-effective alternatives to traditional lithium-ion ...

## 'World's largest' sodium-ion battery energy storage ...

This is currently the world's largest sodium-ion battery energy storage project and marks a new stage in the commercial operation of sodium-ion battery energy storage systems, Hina Battery said. The energy storage station ...



## How Italy is Driving BESS Investment

This blog is the latest addition to our new series, "Introduction to BESS (Battery Energy Storage Systems) Markets". In this blog, we review market developments and key drivers for BESS in Italy.

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