

# **Sodium ion battery storage cost breakdown in Netherlands 2026**





## Overview

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

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With sodium priced at \$0.05 per kilogram compared to lithium's \$15, sodium-ion batteries offer a 300-fold cost advantage in raw materials. This affordability positions them as a breakthrough solution for price-sensitive applications, diminishing reliance on scarce materials like cobalt and nickel.

The sustained high price of lithium carbonate has intensified cost pressures on downstream power battery and energy storage companies. At the same time, it has opened a market window for sodium-ion batteries (hereinafter referred to as sodium batteries), an emerging technological pathway. Although.

The average cost for sodium-ion cells in 2024 is \$87 per kilowatt-hour (kWh), marginally cheaper than lithium-ion cells at \$89/kWh. Assuming a similar capex cost to Li-ion-based battery energy storage systems (BESS) at \$300/kWh, sodium-ion batteries' 57% improvement rate will see them increasingly.

This article explores the economic and resource-based aspects of sodium-ion batteries, offering a comprehensive analysis of their cost-effectiveness and resource utilization, and detailing how Himax Electronics is enhancing these aspects through technological innovation. Abundant Resources: Sodium.

Recent industry analysis reveals that lithium-ion battery storage systems now average €300-400 per kilowatt-hour installed, with projections indicating a further 40% cost reduction by 2030. For utility operators and project developers, these economics reshape the fundamental calculations of grid.

With sodium priced at \$0.05 per kilogram compared to lithium's \$15, sodium-



ion batteries offer a 300-fold cost advantage in raw materials. This affordability positions them as a breakthrough solution for price-sensitive applications, diminishing reliance on scarce materials like cobalt and nickel. What is the 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.com's offering. The sodium-ion battery market is experiencing unprecedented momentum as industries worldwide seek sustainable, cost-effective alternatives to traditional lithium-ion technology.

How much will sodium ion batteries cost in 2028?

Assuming a similar capex cost to Li-ion-based battery energy storage systems (BESS) at \$300/kWh, sodium-ion batteries' 57% improvement rate will see them increasingly more affordable than Li-ion cells, reaching around \$10/kWh by 2028.

Will sodium-ion batteries dominate the future of long-duration energy storage?

With costs fast declining, sodium-ion batteries look set to dominate the future of long-duration energy storage, finds AI-based analysis that predicts technological breakthroughs based on global patent data. Sodium-ion batteries' rapid development could see long-duration energy storage (LDES) enter mainstream use as early as 2027.

Are sodium ion batteries sustainable?

Sodium-ion batteries (SODIUM BATTERY) represent a promising alternative to traditional battery technologies, with significant advantages in terms of cost, resource availability, and environmental impact. As these batteries continue to evolve, their role in sustainable energy storage is expected to expand.

Will sodium-ion batteries disrupt the LDEs market?

Credit: Fahroni/Shutterstock. Sodium-ion batteries are set to disrupt the LDES market within the next few years, according to new research - exclusively seen by Power Technology's sister publication Energy Monitor - by GetFocus, an AI-based analysis platform that predicts technological breakthroughs based on global patent data.

Are sodium-ion batteries a viable alternative to lithium-ionic batteries?



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 kilogram compared to lithium's \$15, sodium-ion batteries offer a 300-fold cost advantage in raw materials.



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### Battery cost forecasting: a review of methods and ...

However, battery costs have fallen fast during the last years and an accurate prediction of their future development is vital for profound research in academia and sustainable decisions in industry. This article outlines the most ...

### Exclusive: sodium batteries to disrupt energy storage ...

With costs fast declining, sodium-ion batteries look set to dominate the future of long-duration energy storage, finds AI-based analysis that predicts technological breakthroughs based on global patent data.



### Dutch start-up develops sodium-ion battery tech for ...

Founded by former Tesla leaders, Amsterdam-based Moonwatt is taking a novel approach to sodium-ion battery technology, optimizing it for colocation with solar power plants. The company has raised \$8.3 million in ...

### Real Cost Behind Grid-Scale Battery Storage: 2024 ...

The rapidly evolving landscape of utility-scale energy storage systems has reached a critical turning point, with costs plummeting by 89% over the past decade. This dramatic shift transforms the economics of grid-scale ...



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

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



### [Top 6 Sodium-Ion Battery Companies \[2024\]](#)

The global shift towards clean energy and sustainable solutions has led to significant advancements in battery technology. Among these, sodium-ion batteries have emerged as a promising alternative to traditional lithium-ion ...



### Sodium-ion Batteries Market Global Report 2026-2036, with ...

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





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

The Ultimate Guide to Sodium-Ion Battery Pricing and Technology As the demand for sustainable energy solutions grows, sodium-ion batteries are emerging as a viable ...



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

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### Sodium-ion Batteries Market Global Report 2026-2036,

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

ESS



### Trends in electric vehicle batteries - Global EV ...

The development and cost advantages of sodium-ion batteries are, however, strongly dependent on lithium prices, with current low prices discouraging investments in sodium-ion and delaying expansion plans.



### **A cost and resource analysis of sodium-ion batteries**

Through the use of a scenario-based supply and demand analysis, the risks to the supply of lithium and cobalt are assessed, and implications for battery research are ...



### **Utility-Scale Battery Storage , Electricity , 2024 , ATB , NREL**

Current Year (2022): The 2022 cost breakdown for the 2024 ATB is based on (Ramasamy et al., 2023) and is in 2022\$. Within the ATB Data spreadsheet, costs are separated into energy and ...

### **Sodium-Ion Batteries in 2026: Breaking Through Lithium's Price ...**

This article will analyze the opportunities, challenges, and future trends of the sodium battery industry, while forecasting its potential landscape in 2026.



### **BESS Costs Analysis: Understanding the True Costs of Battery**

Exencell, as a leader in the high-end energy storage battery market, has always been committed to providing clean and green energy to our global partners, continuously ...



## 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 ...



## 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 ...

## Top 10 Energy Storage Trends in 2023

An alternative to lithium-ion batteries, sodium-ion battery technology offers could alleviate battery-market pressures -- and potentially push down costs -- as soon as 2026.



## **Sodium-ion batteries , Current status of the technology and supply**

Recently, sodium-ion batteries have garnered significant attention as a potential alternative to lithium-ion batteries. With global giants like CATL and BYD investing in the ...



### Battery Energy Storage Cabinet Cost: A 2025 Breakdown for ...

Let's cut to the chase: battery energy storage cabinet costs in 2025 range from \$25,000 to \$200,000+ - but why the massive spread? Whether you're powering a factory or ...



### Navigating the Future: 2025 and 2026 Regulatory Changes for Lithium-Ion

Conclusion The 2025-2026 regulatory changes for lithium-ion and sodium-ion batteries represent both a challenge and an opportunity for businesses in the energy storage and transportation ...

### Battery Storage Era: 5 Reasons BESS Is ...

Battery costs have fallen down substantially by over 90 percent in recent years to make energy storage an attractive investment for the solar and wind project developers. Notably, the global average lithium-ion battery pack ...

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### An overview of sodium-ion batteries as next ...

Abstract The rise in the popularity of electric vehicles and portable devices has boosted the demand for rechargeable batteries, with lithium-ion (Li-ion) batteries favored for their superior energy and power density. However, supply strains ...



## Energy storage costs

Wider deployment and the commercialisation of new battery storage technologies has led to rapid cost reductions, notably for lithium-ion batteries, but also for high-temperature sodium-sulphur ...



## What Does Green Energy Storage Cost in 2025?

In 2025, you're looking at an average cost of about \$152 per kilowatt-hour (kWh) for lithium-ion battery packs, which represents a 7% increase since 2021. Energy storage systems (ESS) for four-hour durations exceed \$300/kWh, marking the ...

## 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 ...



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