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Global Long-Duration Energy Storage Market Growth 2025-2031

https://marketpublishers.com/r/G519AC84CC68EN.html
Date: March 2025
Pages: 128
Price: US$ 3,660.00 (Single User License)
ID: G519AC84CC68EN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

The global Long-Duration Energy Storage market size is predicted to grow from US$ million in 2025 to US$ million in 2031; it is expected to grow at a CAGR of %from 2025 to 2031.

In February 2023, the Standardization Administration of China and the National Energy Administration issued the Guidelines on the Construction of New Energy Storage Standard System, which included 205 new energy storage standards. In the 14th Five-Year Plan and the 2035 Vision Target Outline, the energy storage industry, energy storage capacity, energy storage projects have been made requirements. In 2021, China issued the Guiding Opinions on Accelerating the Development of New Energy Storage, which specified a clear path for the development of energy storage industry. According to the data of CEC, the cumulative installed capacity of electrochemical energy storage power stations that put into operation was mainly distributed in the power side, and the total energy is 6.80 GWh, which accounted for 48.40% by the end of 2022.

According to CNESA, by the end of 2022, the cumulative installed capacity of power energy storage projects which has put into operation in the world was 237.2GW, with an annual growth rate of 15%. The cumulative installed capacity of new energy storage reached 45.7GW, which has nearly twice of the same period last year, with an annual growth rate of 80%. The lithium-ion battery occupied an absolute dominant position, with an annual growth rate of more than 85%. The global energy storage market developed rapidly, and the installed capacity of new power energy storage projects is 30.7GW, with a year-on-year growth of 98%. China, Europe and the United States

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continued to lead the development of the global energy storage market, collectively accounting for 86% of the global market.

According to CNESA statistics, by the end of 2022, the total installed capacity of power energy storage projects put into operation in China was 59.8GW, accounting for 25% of the total global market scale, with an annual growth rate of 38%. The cumulative installed capacity of new energy storage exceeded 10GW for the first time, reaching 13.1GW / 27.1, GWh. And the annual growth rate of power scale reached 128%, while the annual growth rate of energy scale reached 141%. The installed capacity of newly added power energy storage projects in China reached 16.5GW for the first time, among which the new capacity of pumped storage was 9.1GW. Among the new energy storage, lithium-ion battery occupied an absolute dominant position, accounting for 113%.

LP Information, Inc. (LPI) ' newest research report, the “Long-Duration Energy Storage Industry Forecast” looks at past sales and reviews total world Long-Duration Energy Storage sales in 2024, providing a comprehensive analysis by region and market sector of projected Long-Duration Energy Storage sales for 2025 through 2031. With Long-Duration Energy Storage sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Long-Duration Energy Storage industry.

This Insight Report provides a comprehensive analysis of the global Long-Duration Energy Storage landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Long-Duration Energy Storage portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Long-Duration Energy Storage market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Long-Duration Energy Storage and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Long-Duration Energy Storage.

This report presents a comprehensive overview, market shares, and growth

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opportunities of Long-Duration Energy Storage market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Mechanical Energy Storage

Electrochemical Energy Storage

Others

Segmentation by Application:

Power Generation

Grid

Electricity

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

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- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey
- GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

- CATL

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BYD

EVE

Gotion

CALB

Narada

Higee

Paineng Technology

SUNGROW

ZTT

Shenzhen CLOU Electronics

Rongke Power

VRB Energy

Invinity Energy Systems

CellCube

Australian Vanadium

Key Questions Addressed in this Report

What is the 10-year outlook for the global Long-Duration Energy Storage market?

What factors are driving Long-Duration Energy Storage market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

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How do Long-Duration Energy Storage market opportunities vary by end market size?

How does Long-Duration Energy Storage break out by Type, by Application?

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