

Global Grid-Scale Battery Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Grid-Scale Battery market size was valued at USD 1251.5 million in 2023 and is forecast to a readjusted size of USD 6320.6 million by 2030 with a CAGR of 26.0% during review period.

Grid energy storage is a collection of methods used to store electrical energy on a large scale within an electrical power grid. Electrical energy is stored during times when production exceeds consumption, and returned to the grid when production falls below consumption. Battery systems connected to large solid-state converters have been used to stabilize power distribution networks.

North America dominates the grid-scale battery market. The growth of the grid-scale battery market in North America can be attributed to the increasing demand for renewable energy storage in the residential, non-residential, and utility sectors.

The Global Info Research report includes an overview of the development of the Grid-Scale Battery industry chain, the market status of Renewable Integration (Lithium-Ion, Lead Acid), Peak Shift (Lithium-Ion, Lead Acid), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Grid-Scale Battery.

Regionally, the report analyzes the Grid-Scale Battery markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Grid-Scale Battery market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Grid-Scale Battery market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Grid-Scale Battery industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (MW), revenue generated, and market share of different by Type (e.g., Lithium-Ion, Lead Acid).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Grid-Scale Battery market.

Regional Analysis: The report involves examining the Grid-Scale Battery market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Grid-Scale Battery market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Grid-Scale Battery:

Company Analysis: Report covers individual Grid-Scale Battery manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Grid-Scale Battery This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Renewable Integration, Peak Shift).

Technology Analysis: Report covers specific technologies relevant to Grid-Scale Battery. It assesses the current state, advancements, and potential future developments in Grid-Scale Battery areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Grid-Scale Battery market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Grid-Scale Battery market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Lithium-Ion

Lead Acid

Flow

Sodium Based

Others

Market segment by Application

Renewable Integration

Peak Shift

Ancillary Services

Back-up Power

Others

Major players covered

LG Chem

Samsung Sdi

Panasonic

Fluence Energy

Tesla

BYD

ABB

GE

GS Yuasa

Toshiba

Saft Groupe

S&C Electric

NGK Insulators

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Grid-Scale Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Grid-Scale Battery, with price, sales, revenue and global market share of Grid-Scale Battery from 2019 to 2024.

Chapter 3, the Grid-Scale Battery competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Grid-Scale Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Grid-Scale Battery market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Grid-Scale Battery.

Chapter 14 and 15, to describe Grid-Scale Battery sales channel, distributors, customers, research findings and conclusion.

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