

# Global Li-ion Battery for Energy Storage Systems (ESS) 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 Li-ion Battery for Energy Storage Systems (ESS) market size was valued at USD 20430 million in 2023 and is forecast to a readjusted size of USD 58690 million by 2030 with a CAGR of 16.3% during review period.

Li-ion Battery Energy Storage Systems (ESS) refer to a type of energy storage system that uses lithium-ion batteries as the primary energy storage medium. Li-ion batteries are a type of rechargeable battery technology that uses lithium ions as the charge carriers to store and release energy.

Li-ion Battery ESS is a flexible and scalable technology that can be used for a wide range of applications, including commercial and industrial facilities, residential properties, telecommunications, uninterruptible power supply (UPS), and portable energy storage.

The ESS comprises of several components, including the Li-ion batteries, power conversion systems, control and monitoring systems, and safety mechanisms. The batteries store excess energy during off-peak periods and release it during peak demand periods or when the grid is unavailable.

Global key players of Li-ion Battery for Energy Storage Systems (ESS) include CATL, BYD, EVE, LG Energy Solution, Samsung SDI, etc. The top five players hold a share over 60%. China is the largest production area, has a share about 87%, followed by Europe, with share 4%. In terms of product type, LFP is the largest segment, occupied for a share of 82%, and in terms of application, Power Grid has a share about 73%.

The Global Info Research report includes an overview of the development of the Li-ion Battery for Energy Storage Systems (ESS) industry chain, the market status of Power Grid (NCx, LFP), Commercial & Industrial (NCx, LFP), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Li-ion Battery for Energy Storage Systems (ESS).

Regionally, the report analyzes the Li-ion Battery for Energy Storage Systems (ESS) 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 Li-ion Battery for Energy Storage Systems (ESS) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Li-ion Battery for Energy Storage Systems (ESS) 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 Li-ion Battery for Energy Storage Systems (ESS) 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 (MWh), revenue generated, and market share of different by Type (e.g., NCx, LFP).

**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 Li-ion Battery for Energy Storage Systems (ESS) market.

**Regional Analysis:** The report involves examining the Li-ion Battery for Energy Storage Systems (ESS) 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 Li-ion Battery for Energy Storage Systems (ESS) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Li-ion Battery for Energy Storage Systems (ESS):

**Company Analysis:** Report covers individual Li-ion Battery for Energy Storage Systems (ESS) 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 Li-ion Battery for Energy Storage Systems (ESS) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Power Grid, Commercial & Industrial).

**Technology Analysis:** Report covers specific technologies relevant to Li-ion Battery for Energy Storage Systems (ESS). It assesses the current state, advancements, and potential future developments in Li-ion Battery for Energy Storage Systems (ESS) areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Li-ion Battery for Energy Storage Systems (ESS) 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

Li-ion Battery for Energy Storage Systems (ESS) 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

NCx

LFP

#### Market segment by Application

Power Grid

Commercial & Industrial

Residential

Telecommunication & UPS

Portable Energy Storage

#### Major players covered

CATL

BYD

EVE

LG Energy Solution

Samsung SDI

REPT

Great Power

Gotion High-tech

Hithium

Ganfeng

CALB

Envision AESC

Poweramp

Pylon Technologies

Lishen

Saft

Kokam

Panasonic

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 Li-ion Battery for Energy Storage Systems (ESS) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Li-ion Battery for Energy Storage Systems (ESS), with price, sales, revenue and global market share of Li-ion Battery for Energy

Storage Systems (ESS) from 2019 to 2024.

Chapter 3, the Li-ion Battery for Energy Storage Systems (ESS) competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Li-ion Battery for Energy Storage Systems (ESS) 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 Li-ion Battery for Energy Storage Systems (ESS) 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 Li-ion Battery for Energy Storage Systems (ESS).

Chapter 14 and 15, to describe Li-ion Battery for Energy Storage Systems (ESS) sales channel, distributors, customers, research findings and conclusion.

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