

Global Grid Scale Energy Storage Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G5B5DC47ED1EN.html>

Date: July 2024

Pages: 97

Price: US\$ 3,480.00 (Single User License)

ID: G5B5DC47ED1EN

Abstracts

According to our (Global Info Research) latest study, the global Grid Scale Energy Storage market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % 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 (especially from intermittent power plants such as renewable electricity sources such as wind power, tidal power, solar power) exceeds consumption, and returned to the grid when production falls below consumption.

Due to the rapid development of the wind power and photovoltaic industry, as well as the increasing awareness of environmental protection in various countries, the energy storage industry is becoming one of the key technologies, which is used in many countries to advance the carbon neutral target process today. The United States, China and Japan occupied the leading position in the installed capacity of energy storage projects, among which the United States is the world's largest energy storage market. The European Union established the European Battery Alliance (EBA) in 2017, aiming to escape the EU's dependence on Asian manufacturers in the battery storage field. According to Data Europa's statistics, the cumulative installed capacity has reached 48.38GW in 2020. At present, pumped storage accounts for 94% of the energy storage market in Europe, with Spain and Germany having the largest capacity. According to BNEF data, electrochemical energy storage in the United States added 3.97GW / 10.88 GWh in 2021. In terms of power, it accounted for 40% of the global increase. In 2022, the United States passed the IRA, which subsidized independent energy storage for the first time. Under the ITC, new energy storage projects could offset up to 60% of the

investment. The effect of the policy has initially appeared, and the energy storage industry in the United States shows an upward trend.

The Global Info Research report includes an overview of the development of the Grid Scale Energy Storage industry chain, the market status of Mechanical Energy (Pumped Hydroelectric Storage System, Thermal Storage), Chemical Energy (Pumped Hydroelectric Storage System, Thermal Storage), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Grid Scale Energy Storage.

Regionally, the report analyzes the Grid Scale Energy Storage 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 Energy Storage market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Grid Scale Energy Storage 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 Energy Storage 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 (K Units), revenue generated, and market share of different by Type (e.g., Pumped Hydroelectric Storage System, Thermal Storage).

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 Energy Storage market.

Regional Analysis: The report involves examining the Grid Scale Energy Storage 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 Energy Storage 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 Energy Storage:

Company Analysis: Report covers individual Grid Scale Energy Storage 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 Energy Storage. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Mechanical Energy, Chemical Energy).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Grid Scale Energy Storage 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 Energy Storage 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

Pumped Hydroelectric Storage System

Thermal Storage

Battery Storage

Compressed Air Energy Storage

Flywheel Storage

Molten Salt Storage

Market segment by Application

Mechanical Energy

Chemical Energy

Electrochemical Energy

Thermal Energy

Electromagnetic Energy

Major players covered

ABB

Beacon Power

Hydrostor

EnerVault

GE

Samsung SDI

S&C Electric

SustainX

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 Energy Storage product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Grid Scale Energy Storage 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 Energy Storage 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 Energy Storage.

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

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