

Global Mechanical Long Duration Energy Storage Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our latest research, the global Mechanical Long Duration Energy Storage market size will reach USD 4248 million in 2031, growing at a CAGR of 7.7% over the analysis period.

Mechanical Long Duration Energy Storage (LDES) refers to systems that store energy by converting electricity into mechanical forms—such as potential or kinetic energy—and then converting it back to electricity when needed, typically over durations of 8 hours or more. Common mechanical LDES technologies include pumped hydro storage (water is pumped uphill and released to generate power), compressed air energy storage (CAES) (air is compressed and stored in underground caverns), gravity-based systems (lifting heavy masses and releasing them), and flywheels (storing kinetic energy in a spinning rotor). These systems are valued for their long lifespan, low operational costs, and scalability, making them ideal for grid-level storage, renewable energy smoothing, and providing backup power during extended demand periods or generation shortfalls.

This report is a detailed and comprehensive analysis for global Mechanical Long Duration Energy Storage market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Mechanical Long Duration Energy Storage market size and forecasts, in consumption value (\$ Million), 2020-2031

Global Mechanical Long Duration Energy Storage market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Mechanical Long Duration Energy Storage market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Mechanical Long Duration Energy Storage market shares of main players, in revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Mechanical Long Duration Energy Storage
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Mechanical Long Duration Energy Storage market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hydrostor, Stark Drones, Corre Energy, Storelectric, Augwind Energy, MAN Energy Solutions, Highview Power, Energy Dome, Gravitricity, Energy Vault, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Mechanical Long Duration Energy Storage market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Compressed Air Energy Storage

Air Liquide Energy Storage

CO2 Energy Storage

Gravity Energy Storage

Market segment by Application

Utilities

Industrial

Residential and Commercial

Transportation

Others

Market segment by players, this report covers

Hydrostor

Stark Drones

Corre Energy

Storelectric

Augwind Energy

MAN Energy Solutions

Highview Power

Energy Dome

Gravitricity

Energy Vault

Sumitomo SHI FW

Gravity Power

Enairys

ALACAES

Zhonglu Zhongke Energy Storage Technology

Jointo Energy Investment

Changsha Borui Dingneng Power Technology

Shouhang High-Tech Energy

China National Energy (Beijing) Technology

Beijing Qidi Huateng Technology Development

China Tianying

Zhengping (Qinghai) Xinyuan Energy Storage Technology

Power Construction Corporation of China

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Mechanical Long Duration Energy Storage product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Mechanical Long Duration Energy Storage, with revenue, gross margin, and global market share of Mechanical Long Duration Energy Storage from 2020 to 2025.

Chapter 3, the Mechanical Long Duration Energy Storage competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025.

and Mechanical Long Duration Energy Storage market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Mechanical Long Duration Energy Storage.

Chapter 13, to describe Mechanical Long Duration Energy Storage research findings and conclusion.

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