

Global Electro-Mechanical Energy Storage System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electro-Mechanical Energy Storage System market size is expected to reach \$ 954 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global electro-mechanical energy storage system production capacity is 18,000 units, with production reached approximately 12,000 units, with an average global market price of around US\$ 45,000 per unit. The market gross margin is mainly 25%-35%. An Electro-Mechanical Energy Storage System refers to a category of energy storage technologies that store energy in mechanical form and convert it into electrical energy when needed. These systems typically rely on mechanical motion or potential energy to store energy and are widely used for grid balancing, power quality regulation, and renewable energy integration. Common types of electro-mechanical energy storage technologies include flywheel energy storage systems, pumped hydro storage, compressed air energy storage (CAES), and gravity-based energy storage systems. Electro-mechanical energy storage systems are characterized by high durability, long service life, and strong power output capability. Unlike electrochemical battery storage systems, they generally experience less performance degradation over time and can support high-frequency charge and discharge cycles. These systems are increasingly used in power grids, industrial power management, renewable energy stabilization, and frequency regulation applications.

The upstream of the electro-mechanical energy storage system industry chain mainly includes raw materials and key components such as high-strength steel structures, bearings, rotors, motors/generators, compressors, turbines, power electronics, control systems, and advanced monitoring sensors. In certain systems such as flywheel energy storage, precision magnetic bearings and vacuum chambers are critical components

influencing system performance and efficiency. The midstream focuses on the design, engineering integration, and manufacturing of complete electro-mechanical storage systems. This includes system architecture design, mechanical assembly, electrical integration, power conversion systems, and control software development. Manufacturers emphasize improving system efficiency, operational reliability, and grid compatibility. The downstream primarily includes power grid operators, renewable energy power plants, industrial energy management systems, and utility-scale energy storage projects. These systems are also used in frequency regulation, peak shaving, grid stabilization, and microgrid applications.

The electro-mechanical energy storage system market is gaining attention as global power systems transition toward higher shares of renewable energy. One of the main drivers is the increasing need for grid stability and frequency regulation as intermittent renewable energy sources such as wind and solar expand rapidly. Electro-mechanical storage technologies provide fast response times and high power output, making them suitable for grid balancing applications. Another key factor is the long service life and high cycle durability of these systems compared with electrochemical batteries. Technologies such as flywheel energy storage and compressed air energy storage can operate for decades with relatively low degradation, reducing long-term operational costs for utilities and industrial users. Additionally, large-scale infrastructure projects and government initiatives supporting grid modernization and energy transition are boosting investment in advanced energy storage solutions. As countries pursue carbon neutrality goals and expand renewable energy integration, electro-mechanical energy storage systems are expected to play an increasingly important role in future power systems.

This report studies the global Electro-Mechanical Energy Storage System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electro-Mechanical Energy Storage System and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Electro-Mechanical Energy Storage System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electro-Mechanical Energy Storage System total production and demand,

2021-2032, (Units)

Global Electro-Mechanical Energy Storage System total production value, 2021-2032, (USD Million)

Global Electro-Mechanical Energy Storage System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Electro-Mechanical Energy Storage System consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Electro-Mechanical Energy Storage System domestic production, consumption, key domestic manufacturers and share

Global Electro-Mechanical Energy Storage System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Electro-Mechanical Energy Storage System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Electro-Mechanical Energy Storage System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Electro-Mechanical Energy Storage System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, Fluence, General Electric, Hitachi Energy, Johnson Controls, LG Energy Solutions, Nextra Energy, Panasonic, Sonnen, Siemens, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Electro-Mechanical Energy Storage System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Electro-Mechanical Energy Storage System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electro-Mechanical Energy Storage System Market, Segmentation by Type:

Small Scale

Medium Scale

Large Scale

Global Electro-Mechanical Energy Storage System Market, Segmentation by Storage Technology:

Flywheel

Compressed Air

Others

Global Electro-Mechanical Energy Storage System Market, Segmentation by Installation Type:

Underground

Surface

Global Electro-Mechanical Energy Storage System Market, Segmentation by Application:

Power Grid Operators

New energy Power Plants

Industrial Energy Management Systems

Others

Companies Profiled:

ABB

Fluence

General Electric

Hitachi Energy

Johnson Controls

LG Energy Solutions

Nextra Energy

Panasonic

Sonnen

Siemens

Key Questions Answered:

1. How big is the global Electro-Mechanical Energy Storage System market?
2. What is the demand of the global Electro-Mechanical Energy Storage System market?
3. What is the year over year growth of the global Electro-Mechanical Energy Storage System market?
4. What is the production and production value of the global Electro-Mechanical Energy Storage System market?
5. Who are the key producers in the global Electro-Mechanical Energy Storage System market?
6. What are the growth factors driving the market demand?

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