

Global Electro-Mechanical Energy Storage System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G6CEF9D5C6AFEN.html>

Date: April 2026

Pages: 93

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

ID: G6CEF9D5C6AFEN

Abstracts

According to our (Global Info Research) latest study, the global Electro-Mechanical Energy Storage System market size was valued at US\$ 556 million in 2025 and is forecast to a readjusted size of US\$ 954 million by 2032 with a CAGR of 8.0% during review period.

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 is a detailed and comprehensive analysis for global Electro-Mechanical Energy Storage System market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Electro-Mechanical Energy Storage System market size and forecasts, in

consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Electro-Mechanical Energy Storage System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Electro-Mechanical Energy Storage System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global Electro-Mechanical Energy Storage System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

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 Electro-Mechanical Energy Storage System

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 Electro-Mechanical Energy Storage System market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Electro-Mechanical Energy Storage System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Small Scale

Medium Scale

Large Scale

Market segment by Storage Technology

Flywheel

Compressed Air

Others

Market segment by Installation Type

Underground

Surface

Market segment by Application

Power Grid Operators

New energy Power Plants

Industrial Energy Management Systems

Others

Major players covered

ABB

Fluence

General Electric

Hitachi Energy

Johnson Controls

LG Energy Solutions

Nextra Energy

Panasonic

Sonnen

Siemens

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 Electro-Mechanical Energy Storage System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Electro-Mechanical Energy Storage System, with price, sales quantity, revenue, and global market share of Electro-Mechanical Energy Storage System from 2021 to 2026.

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

Chapter 4, the Electro-Mechanical Energy Storage System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Electro-Mechanical Energy Storage System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Electro-Mechanical Energy Storage System.

Chapter 14 and 15, to describe Electro-Mechanical Energy Storage System sales channel, distributors, customers, research findings and conclusion.

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