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Global Magnet Power Supply Energy Storage System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Magnet Power Supply Energy Storage System market size is expected to reach $ 87.60 million by 2032, rising at a market growth of 18.7% CAGR during the forecast period (2026-2032).

Magnet Power Supply Energy Storage System is a comprehensive energy equipment system specifically designed to provide stable, high-precision, high-current power supply and energy regulation capabilities for large magnet systems. It mainly consists of a magnet power supply system, energy storage units, power conversion devices, control and protection systems, and monitoring systems. This system pre-stores electrical energy through energy storage devices and achieves high-power output and energy recovery during magnet excitation, steady-state operation, rapid changes, and emergency protection processes, thereby ensuring the safe, stable, and efficient operation of the magnet system. Magnet power supply energy storage systems primarily serve applications requiring strong magnetic fields, highly stable current, and rapid power response, including controlled nuclear fusion devices, particle accelerators, superconducting magnetic energy storage systems (SMES), large-scale scientific experimental facilities, and some high-end industrial equipment.

Magnet power supply energy storage systems exhibit significant technological complexity, with core requirements including ultra-high current output, high dynamic response, low current ripple, high-reliability protection, and rapid energy release. During the operation of large-scale fusion devices, the magnet system undergoes multiple operational phases, including excitation, maintenance, regulation, and rapid energy dissipation. Therefore, the power system not only needs to continuously provide a stable current but also needs to rapidly absorb or release magnetic field energy in case of faults to prevent serious problems such as quenching of the superconducting

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magnet.

The accelerated global energy transition and commercialization of controlled nuclear fusion are driving magnet power supply energy storage systems into a new stage of development. Previously, these systems primarily served research institutions, large particle accelerators, and experimental fusion devices, resulting in a relatively limited market size. However, with the continued advancement of ITER, DEMO demonstration reactors, CFETR, and private fusion enterprise projects, the demand for magnet system-related equipment is rapidly increasing, and the importance of magnet power supply and energy storage technologies is constantly rising. Especially against the backdrop of the rapid development of high-temperature superconducting magnet (HTS) technology, next-generation fusion devices are exploring reactor designs with higher magnetic field strengths and more compact designs, placing even higher demands on the power system.

The future development of magnet power supply energy storage systems will focus on higher power output, higher precision, greater intelligence, and modularity. Firstly, as fusion devices expand in scale and magnetic field strength increases, magnet power supplies will need to support higher current levels and larger energy storage capacities. Future products will develop towards tens of kiloamperes or even higher, while simultaneously improving energy conversion efficiency. Secondly, advanced control technology will become a key competitive factor. Digital control, power electronic conversion, and real-time monitoring technologies will improve current regulation accuracy and system stability. Future magnet power supply systems will increasingly utilize advanced power electronic technologies such as IGBTs, IGCTs, and SiC power devices to achieve faster response times and lower losses. Simultaneously, artificial intelligence, big data, and predictive maintenance technologies will gradually be applied to magnet power supply systems, enabling real-time monitoring of operating status, early identification of equipment anomalies, and improved reliability of large-scale energy equipment.

Report Scope

This report studies the global Magnet Power Supply Energy Storage System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Magnet Power Supply Energy Storage System, and provides market size (US$ million) and

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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 Magnet Power Supply Energy Storage System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Magnet Power Supply Energy Storage System total market, 2021-2032, (USD Million)

Global Magnet Power Supply Energy Storage System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Magnet Power Supply Energy Storage System total market, key domestic companies, and share, (USD Million)

Global Magnet Power Supply Energy Storage System revenue by player, revenue and market share 2021-2026, (USD Million)

Global Magnet Power Supply Energy Storage System total market by Type, CAGR, 2021-2032, (USD Million)

Global Magnet Power Supply Energy Storage System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Magnet Power Supply Energy Storage System 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 JEMA Energy, EEI SpA, Dynex Semiconductor, Woodruff Engineering, OCEM Power Electronics, NingBo Shine Electrical Technologies (Prince New Materials), XJ Power Electronics, Shanghai Startorus Fusion, 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

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used in analyzing the world Magnet Power Supply Energy Storage System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, 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 Magnet Power Supply Energy Storage System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Magnet Power Supply Energy Storage System Market, Segmentation by Type:

Capacitor Energy Storage System

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Flywheel Energy Storage System

Hybrid Energy Storage System

Others

Global Magnet Power Supply Energy Storage System Market, Segmentation by Capacity:

<10 MJ

10-100 MJ

100-1,000 MJ

>1 GJ

Global Magnet Power Supply Energy Storage System Market, Segmentation by Application:

Nuclear Fusion

Particle Accelerators

High-field Magnet Research

Superconducting Magnet Systems

Others

Companies Profiled:

JEMA Energy

EEI SpA

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Dynex Semiconductor

Woodruff Engineering

OCEM Power Electronics

NingBo Shine Electrical Technologies (Prince New Materials)

XJ Power Electronics

Shanghai Startorus Fusion

Key Questions Answered

1. How big is the global Magnet Power Supply Energy Storage System market?
2. What is the demand of the global Magnet Power Supply Energy Storage System market?
3. What is the year over year growth of the global Magnet Power Supply Energy Storage System market?
4. What is the total value of the global Magnet Power Supply Energy Storage System market?
5. Who are the Major Players in the global Magnet Power Supply Energy Storage System market?
6. What are the growth factors driving the market demand?

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