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Global Nuclear Fusion Magnetic Energy Storage System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nuclear Fusion Magnetic Energy Storage System market size is expected to reach $ 104 million by 2032, rising at a market growth of 19.0% CAGR during the forecast period (2026-2032).

The nuclear fusion magnet energy storage system is a key supporting system for providing instantaneous ultra-high power pulse power to controlled nuclear fusion devices (especially magnetic confinement fusion devices such as tokamaks), and can be regarded as the "pulse power heart" of the entire fusion device. Its core function is not to directly store the energy generated by the fusion reaction, but to serve the operational needs of the fusion device itself. When the device conducts plasma discharge experiments, its huge magnet coils (such as toroidal field coils and poloidal field coils) need to obtain huge electrical power in an extremely short time (milliseconds) to generate and confine the strong magnetic field of the plasma.

The nuclear fusion magnet energy storage system is a key energy equipment system used in controlled nuclear fusion devices, providing energy storage, current regulation, power compensation, and safety protection for large superconducting magnet systems. This system mainly consists of a magnet power supply system, energy storage units, power electronic conversion equipment, a control and protection system, and a monitoring and diagnostic system. Its core function is to meet the operational requirements of superconducting magnets in nuclear fusion devices for "high current, high stability, high response speed, and high reliability." In magnetic confinement fusion devices, superconducting magnets, by generating strong magnetic fields to confine high-temperature plasma, are the core components for achieving continuous fusion reactions. The magnet energy storage system is responsible for providing precisely

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controllable electrical energy to these magnets and for performing energy release, recovery, and rapid protection during device operation.

The global controlled nuclear fusion industry is rapidly gaining momentum, propelling nuclear fusion magnet energy storage systems into a new stage of development. Previously, these systems primarily served large-scale scientific fusion devices such as ITER, EAST, KSTAR, and JET, as well as specialized applications like particle accelerators and high-energy physics experimental facilities, resulting in a relatively limited market size. However, with the accelerated global energy transition, increased demand for clean energy, and the rapid development of commercial fusion companies, the number of nuclear fusion devices under construction continues to rise, significantly increasing the demand for large superconducting magnets, power systems, and energy storage equipment.

From a market development perspective, nuclear fusion magnet energy storage systems are currently still in the technology research and engineering verification stage, and have not yet formed a mature large-scale commercial market, but they have significant future growth potential. With the subsequent operation of ITER, the construction of the DEMO demonstration reactor, and the advancement of private commercial fusion projects, magnet power supplies and energy storage systems will gradually shift from scientific research equipment to core infrastructure for future fusion power plants. Future commercial fusion devices require magnet systems with higher magnetic fields, longer operating times, and higher reliability; therefore, the demand for high-power magnet power supplies, rapid energy storage and release systems, and intelligent control systems will continue to increase. Meanwhile, with the increasing proportion of new energy grids, superconducting magnetic energy storage technology may also find applications in power system frequency regulation, power quality improvement, and renewable energy fluctuation balancing, providing new technological extension space for the nuclear fusion magnet energy storage industry.

As the scale of fusion devices expands and the application of high-temperature superconducting magnets advances, magnet energy storage systems need to support higher current levels, larger magnetic field energy storage, and faster power regulation capabilities. Secondly, advanced power electronics technology will become an important foundation for system upgrades, including the application of IGBTs, IGCTs, and SiC wide-bandgap semiconductor devices, which will further improve power conversion efficiency and dynamic response capabilities. Simultaneously, digital control, artificial intelligence monitoring, and predictive maintenance technologies will gradually be applied to magnet energy management systems, enabling real-time monitoring of

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magnet status, current changes, temperature changes, and quench risk, thereby improving the operational safety of large-scale fusion equipment.

Report Scope

This report studies the global Nuclear Fusion Magnetic Energy Storage System demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nuclear Fusion Magnetic 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 Nuclear Fusion Magnetic Energy Storage System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nuclear Fusion Magnetic Energy Storage System total market, 2021-2032, (USD Million)

Global Nuclear Fusion Magnetic Energy Storage System total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Nuclear Fusion Magnetic Energy Storage System total market, key domestic companies, and share, (USD Million)

Global Nuclear Fusion Magnetic Energy Storage System revenue by player, revenue and market share 2021-2026, (USD Million)

Global Nuclear Fusion Magnetic Energy Storage System total market by Type, CAGR, 2021-2032, (USD Million)

Global Nuclear Fusion Magnetic Energy Storage System total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Nuclear Fusion Magnetic Energy Storage

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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 used in analyzing the world Nuclear Fusion Magnetic 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 Nuclear Fusion Magnetic Energy Storage System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

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Rest of World

Market Segmentation

Global Nuclear Fusion Magnetic Energy Storage System Market, Segmentation by Type:

Capacitor Energy Storage System

Flywheel Energy Storage System

Battery Energy Storage System

Hybrid Energy Storage System

Global Nuclear Fusion Magnetic Energy Storage System Market, Segmentation by Capacity:

<10 MJ

10-100 MJ

100-1,000 MJ

>1 GJ

Global Nuclear Fusion Magnetic Energy Storage System Market, Segmentation by Application:

Nuclear Fusion

Particle Accelerators

High-field Magnet Research

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Superconducting Magnet Systems

Others

Companies Profiled:

JEMA Energy

EEI SpA

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 Nuclear Fusion Magnetic Energy Storage System market?
2. What is the demand of the global Nuclear Fusion Magnetic Energy Storage System market?
3. What is the year over year growth of the global Nuclear Fusion Magnetic Energy Storage System market?
4. What is the total value of the global Nuclear Fusion Magnetic Energy Storage System market?
5. Who are the Major Players in the global Nuclear Fusion Magnetic Energy Storage System market?
6. What are the growth factors driving the market demand?

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