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Global Nuclear Fusion Magnetic Energy Storage System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Nuclear Fusion Magnetic Energy Storage System market size was valued at US$ 30.48 million in 2025 and is forecast to a readjusted size of US$ 104 million by 2032 with a CAGR of 19.0% during review period.

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

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reactions. The magnet energy storage system is responsible for providing precisely 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

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be applied to magnet energy management systems, enabling real-time monitoring of magnet status, current changes, temperature changes, and quench risk, thereby improving the operational safety of large-scale fusion equipment.

Report Scope

This report is a detailed and comprehensive analysis for global Nuclear Fusion Magnetic Energy Storage System 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 Nuclear Fusion Magnetic Energy Storage System market size and forecasts, in consumption value ($ Million), 2021-2032

Global Nuclear Fusion Magnetic Energy Storage System market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Nuclear Fusion Magnetic Energy Storage System market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Nuclear Fusion Magnetic Energy Storage System market shares of main players, in revenue ($ Million), 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 Nuclear Fusion Magnetic Energy Storage System

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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 Nuclear Fusion Magnetic 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.

Nuclear Fusion Magnetic 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. This analysis can help you expand your business by targeting qualified niche markets.

Market segmentation

Market segment by Type

Capacitor Energy Storage System

Flywheel Energy Storage System

Battery Energy Storage System

Hybrid Energy Storage System

Market segment by Capacity

<10 MJ

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10-100 MJ

100-1,000 MJ

>1 GJ

Market segment by Application

Nuclear Fusion

Particle Accelerators

High-field Magnet Research

Superconducting Magnet Systems

Others

Market segment by players, this report covers

JEMA Energy

EEI SpA

Dynex Semiconductor

Woodruff Engineering

OCEM Power Electronics

NingBo Shine Electrical Technologies (Prince New Materials)

XJ Power Electronics

Shanghai Startorus Fusion

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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)

Chapter Outline

Chapter 1, to describe Nuclear Fusion Magnetic Energy Storage System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Nuclear Fusion Magnetic Energy Storage System, with revenue, gross margin, and global market share of Nuclear Fusion Magnetic Energy Storage System from 2021 to 2026.

Chapter 3, the Nuclear Fusion Magnetic Energy Storage System 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 2021 to 2032.

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 2021 to 2026.and Nuclear Fusion Magnetic Energy Storage System market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Nuclear Fusion Magnetic Energy Storage System.

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Chapter 13, to describe Nuclear Fusion Magnetic Energy Storage System research findings and conclusion.

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