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Global Superconducting Magnetic Energy Storage (SMES) Technology Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Superconducting Magnetic Energy Storage (SMES) Technology market size is expected to reach $ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

In response to the challenge of global climate change, about 130 countries and regions have proposed carbon neutrality goals, and green, low-carbon and sustainable development have become an international consensus. Among them, the construction of a new power system based on renewable energy is an important path to achieve carbon neutrality.

The development of energy storage technology is a necessary condition for promoting the transformation of energy structure, because renewable energy has the characteristics of intermittent, fluctuating and uncertain, which makes it difficult to guarantee the balance between power supply and demand. Energy storage technology can increase the proportion of renewable energy consumption, reduce the impact on the power grid, and improve the flexibility, economy and security of the power system.

Superconducting Magnetic Energy Storage (SMES) is a technology used for the efficient storage and release of electrical energy. It relies on the phenomenon of superconductivity, where certain materials, when cooled to extremely low temperatures, exhibit zero electrical resistance.

SMES systems offer several advantages. They have high power density, meaning they can deliver a large amount of power in a short time. They also have a fast response time, making them suitable for applications that require quick energy release.

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Additionally, SMES systems have a long cycle life, meaning they can go through many charge-discharge cycles without significant degradation.

This report studies the global Superconducting Magnetic Energy Storage (SMES) Technology production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Superconducting Magnetic Energy Storage (SMES) Technology, and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Superconducting Magnetic Energy Storage (SMES) Technology that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Superconducting Magnetic Energy Storage (SMES) Technology total production and demand, 2018-2029, (Units)

Global Superconducting Magnetic Energy Storage (SMES) Technology total production value, 2018-2029, (USD Million)

Global Superconducting Magnetic Energy Storage (SMES) Technology production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Superconducting Magnetic Energy Storage (SMES) Technology consumption by region & country, CAGR, 2018-2029 & (Units)

U.S. VS China: Superconducting Magnetic Energy Storage (SMES) Technology domestic production, consumption, key domestic manufacturers and share

Global Superconducting Magnetic Energy Storage (SMES) Technology production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global Superconducting Magnetic Energy Storage (SMES) Technology production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global Superconducting Magnetic Energy Storage (SMES) Technology production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

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This reports profiles key players in the global Superconducting Magnetic Energy Storage (SMES) Technology 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, American Superconductor Corporation (AMSC), ASG Superconductors, Southwire, Hyper Tech Research, Nexans, Korea Electrotechnology Research Institute (KERI), Luvata and Bruker Energy & Supercon Technologies, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Superconducting Magnetic Energy Storage (SMES) Technology 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 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Superconducting Magnetic Energy Storage (SMES) Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Global Superconducting Magnetic Energy Storage (SMES) Technology Market, Segmentation by Type

High Temperature SMES

Low Temperature SMES

Global Superconducting Magnetic Energy Storage (SMES) Technology Market, Segmentation by Application

Power Grid Stabilization

Renewable Energy Integration

Electric Vehicle Charging

Others

Companies Profiled:

ABB

American Superconductor Corporation (AMSC)

ASG Superconductors

Southwire

Hyper Tech Research

Nexans

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Korea Electrotechnology Research Institute (KERI)

Luvata

Bruker Energy & Supercon Technologies

Fujikura

Sumitomo Electric Industries

Key Questions Answered

1. How big is the global Superconducting Magnetic Energy Storage (SMES) Technology market?

2. What is the demand of the global Superconducting Magnetic Energy Storage (SMES) Technology market?

3. What is the year over year growth of the global Superconducting Magnetic Energy Storage (SMES) Technology market?

4. What is the production and production value of the global Superconducting Magnetic Energy Storage (SMES) Technology market?

5. Who are the key producers in the global Superconducting Magnetic Energy Storage (SMES) Technology market?

6. What are the growth factors driving the market demand?

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Contents

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3 WORLD SUPERCONDUCTING MAGNETIC ENERGY STORAGE (SMES) TECHNOLOGY MANUFACTURERS COMPETITIVE ANALYSIS

+357 96 030922
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5 MARKET ANALYSIS BY TYPE

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6 MARKET ANALYSIS BY APPLICATION

7 COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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Table 126. Superconducting Magnetic Energy Storage (SMES) Technology Typical Distributors

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List Of Figures

LIST OF FIGURES

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