

# Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

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## Abstracts

### Summary

Superconducting Magnetic Energy Storage (SMES) systems store energy in the magnetic field created by the flow of direct current in a superconducting coil which has been cryogenically cooled to a temperature below its superconducting critical temperature. A typical SMES system includes three parts: superconducting coil, power conditioning system and cryogenically cooled refrigerator. Once the superconducting coil is charged, the current will not decay and the magnetic energy can be stored indefinitely

Note: In the report, production Revenue (value) is based on the production statistics of Superconducting Magnetic Energy Storage (SMES) systems manufacturers. And consumption value is based on the downstream customer's consumption statistics of Superconducting Magnetic Energy Storage (SMES) systems.

According to APO Research, The global Superconducting Magnetic Energy Storage (SMES) Systems market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

North American market for Superconducting Magnetic Energy Storage (SMES) Systems is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Superconducting Magnetic Energy Storage (SMES) Systems is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of %

during the forecast period of 2025 through 2030.

The China market for Superconducting Magnetic Energy Storage (SMES) Systems is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Superconducting Magnetic Energy Storage (SMES) Systems is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The major global companies of Superconducting Magnetic Energy Storage (SMES) Systems include American Superconductor Corporation, Super Power Inc, Bruker Energy & Supercon Technologies, Fujikura, Hyper Tech Research, Southwire Company US, Sumitomo Electric Industries, Ltd, General Cable Superconductors Ltd. and Nexans SA, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

This report presents an overview of global market for Superconducting Magnetic Energy Storage (SMES) Systems, revenue and gross margin. Analyses of the global market trends, with historic market revenue for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Superconducting Magnetic Energy Storage (SMES) Systems, also provides the value of main regions and countries. Of the upcoming market potential for Superconducting Magnetic Energy Storage (SMES) Systems, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Superconducting Magnetic Energy Storage (SMES) Systems revenue, market share and industry ranking of main companies, data from 2019 to 2024. Identification of the major stakeholders in the global Superconducting Magnetic Energy Storage (SMES) Systems market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

All companies have demonstrated varying levels of sales growth and profitability over

the past six years, while some companies have experienced consistent growth, others have shown fluctuations in performance. The overall trend suggests a positive outlook for the global Superconducting Magnetic Energy Storage (SMES) Systems company landscape, with companies adapting to market dynamics and maintaining profitability amidst changing conditions.

### Superconducting Magnetic Energy Storage (SMES) Systems segment by Company

American Superconductor Corporation

Super Power Inc

Bruker Energy & Supercon Technologies

Fujikura

Hyper Tech Research

Southwire Company US

Sumitomo Electric Industries, Ltd

General Cable Superconductors Ltd.

Nexans SA

ASG Superconductors SpA

Luvata U.K.

SuNam Co., Ltd.

Superconductor Technologies Inc

### Superconducting Magnetic Energy Storage (SMES) Systems segment by Type

Low Temperature SMES

## High Temperature SMES

### Superconducting Magnetic Energy Storage (SMES) Systems segment by Application

Power System

Industrial Use

Research Institution

Others

### Superconducting Magnetic Energy Storage (SMES) Systems segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

## Study Objectives

1. To analyze and research the global Superconducting Magnetic Energy Storage (SMES) Systems status and future forecast, involving, revenue, growth rate (CAGR), market share, historical and forecast.

2. To present the Superconducting Magnetic Energy Storage (SMES) Systems key

companies, revenue, market share, and recent developments.

3. To split the Superconducting Magnetic Energy Storage (SMES) Systems breakdown data by regions, type, companies, and application.
4. To analyze the global and key regions Superconducting Magnetic Energy Storage (SMES) Systems market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify Superconducting Magnetic Energy Storage (SMES) Systems significant trends, drivers, influence factors in global and regions.
6. To analyze Superconducting Magnetic Energy Storage (SMES) Systems competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

#### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Superconducting Magnetic Energy Storage (SMES) Systems market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Superconducting Magnetic Energy Storage (SMES) Systems and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.

5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Superconducting Magnetic Energy Storage (SMES) Systems.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Introduces the report scope of the report, global total market size.

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Superconducting Magnetic Energy Storage (SMES) Systems industry.

Chapter 3: Detailed analysis of Superconducting Magnetic Energy Storage (SMES) Systems company competitive landscape, revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Sales value of Superconducting Magnetic Energy Storage (SMES) Systems in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of key country in the world.

Chapter 7: Sales value of Superconducting Magnetic Energy Storage (SMES) Systems in country level. It provides sigma data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including revenue, gross margin, product introduction,

recent development, etc.

Chapter 9: Concluding Insights.



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