+357 96 030922
info@marketpublishers.com

Global Superconducting Magnetic Energy Storage (SMES) Systems Supply, Demand and Key Producers, 2026-2032

https://marketpublishers.com/r/GB46AE56ADE2EN.html
Date: January 2026
Pages: 115
Price: US$ 4,480.00 (Single User License)
ID: GB46AE56ADE2EN

Abstracts

The global Superconducting Magnetic Energy Storage (SMES) Systems market size is expected to reach $ 160 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

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.

As electrical grids worldwide age, SMES systems are being adopted to improve reliability and prevent outages in existing infrastructure.

Increasing demand for high-quality power, especially in industries like healthcare, data centers, and manufacturing, drives the need for SMES systems that can mitigate voltage sags, spikes, and harmonics.

Governments and organizations worldwide are focusing on achieving net-zero emissions, which promotes the adoption of renewable energy technologies. SMES systems address the intermittency of renewable energy sources by storing excess

+357 96 030922
info@marketpublishers.com

power during peak production and discharging it when generation is low.

Progress in HTS materials reduces cooling requirements and costs, making SMES systems more viable for commercial applications. Innovations in superconducting materials and cryogenics allow for smaller, more efficient SMES systems suitable for diverse applications. Technological advancements have led to near-perfect efficiency in energy storage and retrieval, making SMES a preferred option for specific high-performance applications.

This report studies the global Superconducting Magnetic Energy Storage (SMES) Systems demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Superconducting Magnetic Energy Storage (SMES) Systems, 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 Superconducting Magnetic Energy Storage (SMES) Systems that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Superconducting Magnetic Energy Storage (SMES) Systems total market, 2021-2032, (USD Million)

Global Superconducting Magnetic Energy Storage (SMES) Systems total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Superconducting Magnetic Energy Storage (SMES) Systems total market, key domestic companies, and share, (USD Million)

Global Superconducting Magnetic Energy Storage (SMES) Systems revenue by player, revenue and market share 2021-2026, (USD Million)

Global Superconducting Magnetic Energy Storage (SMES) Systems total market by Type, CAGR, 2021-2032, (USD Million)

Global Superconducting Magnetic Energy Storage (SMES) Systems total market by Application, CAGR, 2021-2032, (USD Million)

+357 96 030922
info@marketpublishers.com

This report profiles major players in the global Superconducting Magnetic Energy Storage (SMES) Systems 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 American Superconductor, Bruker, SuperPower, Fujikura, Hyper Tech Research, Southwire Company, Sumitomo Electric Industries, ASG Superconductors, Nexans, Luvata, 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 Superconducting Magnetic Energy Storage (SMES) Systems 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 Superconducting Magnetic Energy Storage (SMES) Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

+357 96 030922
info@marketpublishers.com

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

Low Temperature SMES

High Temperature SMES

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

Industrial Energy Storage

Renewable Energy Storage

Other

Companies Profiled:

American Superconductor

Bruker

SuperPower

Fujikura

Hyper Tech Research

Southwire Company

Sumitomo Electric Industries

ASG Superconductors

Nexans

Luvata

+357 96 030922
info@marketpublishers.com

SuNam

Key Questions Answered

1. How big is the global Superconducting Magnetic Energy Storage (SMES) Systems market?
2. What is the demand of the global Superconducting Magnetic Energy Storage (SMES) Systems market?
3. What is the year over year growth of the global Superconducting Magnetic Energy Storage (SMES) Systems market?

4. What is the total value of the global Superconducting Magnetic Energy Storage (SMES) Systems market?

5. Who are the Major Players in the global Superconducting Magnetic Energy Storage (SMES) Systems market?
6. What are the growth factors driving the market demand?

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

3 WORLD SUPERCONDUCTING MAGNETIC ENERGY STORAGE (SMES) SYSTEMS COMPANIES COMPETITIVE ANALYSIS

+357 96 030922
info@marketpublishers.com

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

+357 96 030922
info@marketpublishers.com

5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY APPLICATION

7 COMPANY PROFILES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Superconducting Magnetic Energy Storage (SMES) Systems Supply, Demand and Key Producers, 2026-2032

Product link: https://marketpublishers.com/r/GB46AE56ADE2EN.html

Price: US$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/GB46AE56ADE2EN.html