

Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size, Manufacturers, Opportunities and Forecast to 2030

<https://marketpublishers.com/r/GA3F66987EC4EN.html>

Date: April 2024

Pages: 100

Price: US\$ 3,450.00 (Single User License)

ID: GA3F66987EC4EN

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 was estimated at US\$ million in 2023 and is projected to reach a revised size of US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

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.

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.

Report Scope

This report aims to provide a comprehensive presentation of the global market for Superconducting Magnetic Energy Storage (SMES) Systems, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Superconducting Magnetic Energy Storage (SMES) Systems.

The Superconducting Magnetic Energy Storage (SMES) Systems market size, estimations, and forecasts are provided in terms of revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Superconducting Magnetic Energy Storage (SMES) Systems market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by

these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, gross margin by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report 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.

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

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

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 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, executive summary of global and regional market size and CAGR for the history and forecast period (2019-2024, 2025-2030). It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 2: 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 3: 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 4: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 5: Detailed analysis of Superconducting Magnetic Energy Storage (SMES) Systems companies' competitive landscape, revenue, market share and ranking, latest development plan, merger, and acquisition information, etc.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product introduction, revenue, recent development, etc.

Chapter 7, 8, 9, 10 and 11: North America, Europe, Asia Pacific, Latin America, Middle East & Africa, revenue by country.

Chapter 12: Concluding Insights of the report

Contents

1 MARKET OVERVIEW

1.1 Product Definition

1.2 Global Market Growth Prospects

1.3 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Overview by Region 2019 VS 2023 VS 2030

1.4 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Region (2019-2030)

1.4.1 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Region (2019-2024)

1.4.2 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Region (2025-2030)

1.5 Key Regions Superconducting Magnetic Energy Storage (SMES) Systems Market Size (2019-2030)

1.5.1 North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (2019-2030)

1.5.2 Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (2019-2030)

1.5.3 Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (2019-2030)

1.5.4 Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (2019-2030)

1.5.5 Middle East & Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (2019-2030)

2 SUPERCONDUCTING MAGNETIC ENERGY STORAGE (SMES) SYSTEMS MARKET BY TYPE

2.1 Type Introduction

2.1.1 Low Temperature SMES

2.1.2 High Temperature SMES

2.2 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Type

2.2.1 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Overview by Type (2019-2030)

2.2.2 Global Superconducting Magnetic Energy Storage (SMES) Systems Historic Market Size Review by Type (2019-2024)

2.2.3 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecasted by Type (2025-2030)

2.3 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Regions

2.3.1 North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2019-2024)

2.3.2 Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2019-2024)

2.3.3 Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2019-2024)

2.3.4 Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2019-2024)

2.3.5 Middle East and Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2019-2024)

3 SUPERCONDUCTING MAGNETIC ENERGY STORAGE (SMES) SYSTEMS MARKET BY APPLICATION

3.1 Type Introduction

3.1.1 Power System

3.1.2 Industrial Use

3.1.3 Research Institution

3.1.4 Others

3.2 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Application

3.2.1 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Overview by Application (2019-2030)

3.2.2 Global Superconducting Magnetic Energy Storage (SMES) Systems Historic Market Size Review by Application (2019-2024)

3.2.3 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecasted by Application (2025-2030)

3.3 Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Regions

3.3.1 North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2019-2024)

3.3.2 Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2019-2024)

3.3.3 Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2019-2024)

3.3.4 Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2019-2024)

3.3.5 Middle East and Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2019-2024)

4 GLOBAL MARKET DYNAMICS

4.1 Superconducting Magnetic Energy Storage (SMES) Systems Industry Trends

4.2 Superconducting Magnetic Energy Storage (SMES) Systems Industry Drivers

4.3 Superconducting Magnetic Energy Storage (SMES) Systems Industry Opportunities and Challenges

4.4 Superconducting Magnetic Energy Storage (SMES) Systems Industry Restraints

5 COMPETITIVE INSIGHTS BY COMPANY

5.1 Global Top Players by Superconducting Magnetic Energy Storage (SMES) Systems Revenue (2019-2024)

5.2 Global Superconducting Magnetic Energy Storage (SMES) Systems Industry Company Ranking, 2022 VS 2023 VS 2024

5.3 Global Superconducting Magnetic Energy Storage (SMES) Systems Key Company Headquarters & Area Served

5.4 Global Superconducting Magnetic Energy Storage (SMES) Systems Company, Product Type & Application

5.5 Global Superconducting Magnetic Energy Storage (SMES) Systems Company Commercialization Time

5.6 Market Competitive Analysis

5.6.1 Global Superconducting Magnetic Energy Storage (SMES) Systems Market CR5 and HHI

5.6.2 Global Top 5 and 10 Superconducting Magnetic Energy Storage (SMES) Systems Players Market Share by Revenue in 2023

5.6.3 2023 Superconducting Magnetic Energy Storage (SMES) Systems Tier 1, Tier 2, and Tier

6 COMPANY PROFILES

6.1 American Superconductor Corporation

6.1.1 American Superconductor Corporation Company Information

6.1.2 American Superconductor Corporation Business Overview

6.1.3 American Superconductor Corporation Superconducting Magnetic Energy

Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)

6.1.4 American Superconductor Corporation Superconducting Magnetic Energy

Storage (SMES) Systems Product Portfolio

6.1.5 American Superconductor Corporation Recent Developments

6.2 Super Power Inc

6.2.1 Super Power Inc Company Information

6.2.2 Super Power Inc Business Overview

6.2.3 Super Power Inc Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)

6.2.4 Super Power Inc Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

6.2.5 Super Power Inc Recent Developments

6.3 Bruker Energy & Supercon Technologies

6.3.1 Bruker Energy & Supercon Technologies Company Information

6.3.2 Bruker Energy & Supercon Technologies Business Overview

6.3.3 Bruker Energy & Supercon Technologies Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)

6.3.4 Bruker Energy & Supercon Technologies Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

6.3.5 Bruker Energy & Supercon Technologies Recent Developments

6.4 Fujikura

6.4.1 Fujikura Company Information

6.4.2 Fujikura Business Overview

6.4.3 Fujikura Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)

6.4.4 Fujikura Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

6.4.5 Fujikura Recent Developments

6.5 Hyper Tech Research

6.5.1 Hyper Tech Research Company Information

6.5.2 Hyper Tech Research Business Overview

6.5.3 Hyper Tech Research Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)

6.5.4 Hyper Tech Research Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

6.5.5 Hyper Tech Research Recent Developments

6.6 Southwire Company US

6.6.1 Southwire Company US Company Information

6.6.2 Southwire Company US Business Overview

6.6.3 Southwire Company US Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)

6.6.4 Southwire Company US Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

6.6.5 Southwire Company US Recent Developments

6.7 Sumitomo Electric Industries, Ltd

6.7.1 Sumitomo Electric Industries, Ltd Company Information

6.7.2 Sumitomo Electric Industries, Ltd Business Overview

6.7.3 Sumitomo Electric Industries, Ltd Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)

6.7.4 Sumitomo Electric Industries, Ltd Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

6.7.5 Sumitomo Electric Industries, Ltd Recent Developments

6.8 General Cable Superconductors Ltd.

6.8.1 General Cable Superconductors Ltd. Company Information

6.8.2 General Cable Superconductors Ltd. Business Overview

6.8.3 General Cable Superconductors Ltd. Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)

6.8.4 General Cable Superconductors Ltd. Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

6.8.5 General Cable Superconductors Ltd. Recent Developments

6.9 Nexans SA

6.9.1 Nexans SA Company Information

6.9.2 Nexans SA Business Overview

6.9.3 Nexans SA Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)

6.9.4 Nexans SA Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

6.9.5 Nexans SA Recent Developments

6.10 ASG Superconductors SpA

6.10.1 ASG Superconductors SpA Company Information

6.10.2 ASG Superconductors SpA Business Overview

6.10.3 ASG Superconductors SpA Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)

6.10.4 ASG Superconductors SpA Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

6.10.5 ASG Superconductors SpA Recent Developments

6.11 Luvata U.K.

6.11.1 Luvata U.K. Company Information

- 6.11.2 Luvata U.K. Business Overview
- 6.11.3 Luvata U.K. Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)
- 6.11.4 Luvata U.K. Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio
- 6.11.5 Luvata U.K. Recent Developments
- 6.12 SuNam Co., Ltd.
 - 6.12.1 SuNam Co., Ltd. Company Information
 - 6.12.2 SuNam Co., Ltd. Business Overview
 - 6.12.3 SuNam Co., Ltd. Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)
 - 6.12.4 SuNam Co., Ltd. Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio
 - 6.12.5 SuNam Co., Ltd. Recent Developments
- 6.13 Superconductor Technologies Inc
 - 6.13.1 Superconductor Technologies Inc Company Information
 - 6.13.2 Superconductor Technologies Inc Business Overview
 - 6.13.3 Superconductor Technologies Inc Superconducting Magnetic Energy Storage (SMES) Systems Revenue, Global Share and Gross Margin (2019-2024)
 - 6.13.4 Superconductor Technologies Inc Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio
 - 6.13.5 Superconductor Technologies Inc Recent Developments

7 NORTH AMERICA

- 7.1 North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030
- 7.2 North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Country (2019-2024)
- 7.3 North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecast by Country (2025-2030)

8 EUROPE

- 8.1 Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030
- 8.2 Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Country (2019-2024)
- 8.3 Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size

Forecast by Country (2025-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

9.2 Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Country (2019-2024)

9.3 Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecast by Country (2025-2030)

10 LATIN AMERICA

10.1 Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

10.2 Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Country (2019-2024)

10.3 Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecast by Country (2025-2030)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (CAGR) by Country: 2019 VS 2023 VS 2030

11.2 Middle East & Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Country (2019-2024)

11.3 Middle East & Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecast by Country (2025-2030)

12 CONCLUDING INSIGHTS

13 APPENDIX

13.1 Reasons for Doing This Study

13.2 Research Methodology

13.3 Research Process

13.4 Authors List of This Report

13.5 Data Source

13.5.1 Secondary Sources

13.5.2 Primary Sources

List Of Tables

LIST OF TABLES

Table 1. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size (US\$ Million) Comparison by Region: 2019 VS 2023 VS 2030

Table 2. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Region (2019-2024) & (US\$ Million)

Table 3. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Region (2019-2024)

Table 4. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Region (2025-2030) & (US\$ Million)

Table 5. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Region (2025-2030)

Table 6. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Type (2019 VS 2023 VS 2030) & (US\$ Million)

Table 7. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Type (2019-2024) & (US\$ Million)

Table 8. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Type (2019-2024)

Table 9. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecasted by Type (2025-2030) & (US\$ Million)

Table 10. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share Forecasted by Type (2025-2030)

Table 11. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2019-2024) & (US\$ Million)

Table 12. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2025-2030) & (US\$ Million)

Table 13. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2019-2024) & (US\$ Million)

Table 14. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2025-2030) & (US\$ Million)

Table 15. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2019-2024) & (US\$ Million)

Table 16. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2025-2030) & (US\$ Million)

Table 17. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2019-2024) & (US\$ Million)

Table 18. Latin America Superconducting Magnetic Energy Storage (SMES) Systems

Market Size Breakdown by Type (2025-2030) & (US\$ Million)

Table 19. Middle East and Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2019-2024) & (US\$ Million)

Table 20. Middle East and Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Type (2025-2030) & (US\$ Million)

Table 21. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Application (2019 VS 2023 VS 2030) & (US\$ Million)

Table 22. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Application (2019-2024) & (US\$ Million)

Table 23. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Application (2019-2024)

Table 24. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecasted by Application (2025-2030) & (US\$ Million)

Table 25. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share Forecasted by Application (2025-2030)

Table 26. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2019-2024) & (US\$ Million)

Table 27. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2025-2030) & (US\$ Million)

Table 28. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2019-2024) & (US\$ Million)

Table 29. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2025-2030) & (US\$ Million)

Table 30. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2019-2024) & (US\$ Million)

Table 31. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2025-2030) & (US\$ Million)

Table 32. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2019-2024) & (US\$ Million)

Table 33. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2025-2030) & (US\$ Million)

Table 34. Middle East and Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2019-2024) & (US\$ Million)

Table 35. Middle East and Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Breakdown by Application (2025-2030) & (US\$ Million)

Table 36. Superconducting Magnetic Energy Storage (SMES) Systems Industry Trends

Table 37. Superconducting Magnetic Energy Storage (SMES) Systems Industry Drivers

Table 38. Superconducting Magnetic Energy Storage (SMES) Systems Industry Opportunities and Challenges

Table 39. Superconducting Magnetic Energy Storage (SMES) Systems Industry Restraints

Table 40. Global Superconducting Magnetic Energy Storage (SMES) Systems Revenue by Company (US\$ Million) & (2019-2024)

Table 41. Global Superconducting Magnetic Energy Storage (SMES) Systems Revenue Market Share by Company (2019-2024)

Table 42. Global Superconducting Magnetic Energy Storage (SMES) Systems Industry Company Ranking, 2022 VS 2023 VS 2024

Table 43. Global Superconducting Magnetic Energy Storage (SMES) Systems Key Company Headquarters & Area Served

Table 44. Global Superconducting Magnetic Energy Storage (SMES) Systems Company, Product Type & Application

Table 45. Global Superconducting Magnetic Energy Storage (SMES) Systems Company Commercialization Time

Table 46. Global Company Market Concentration Ratio (CR5 and HHI)

Table 47. Global Superconducting Magnetic Energy Storage (SMES) Systems by Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue of 2023)

Table 48. American Superconductor Corporation Business Overview

Table 49. American Superconductor Corporation Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 50. American Superconductor Corporation Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 51. American Superconductor Corporation Recent Development

Table 52. Super Power Inc Company Information

Table 53. Super Power Inc Business Overview

Table 54. Super Power Inc Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 55. Super Power Inc Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 56. Super Power Inc Recent Development

Table 57. Bruker Energy & Supercon Technologies Company Information

Table 58. Bruker Energy & Supercon Technologies Business Overview

Table 59. Bruker Energy & Supercon Technologies Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 60. Bruker Energy & Supercon Technologies Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 61. Bruker Energy & Supercon Technologies Recent Development

Table 62. Fujikura Company Information

Table 63. Fujikura Business Overview

Table 64. Fujikura Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 65. Fujikura Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 66. Fujikura Recent Development

Table 67. Hyper Tech Research Company Information

Table 68. Hyper Tech Research Business Overview

Table 69. Hyper Tech Research Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 70. Hyper Tech Research Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 71. Hyper Tech Research Recent Development

Table 72. Southwire Company US Company Information

Table 73. Southwire Company US Business Overview

Table 74. Southwire Company US Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 75. Southwire Company US Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 76. Southwire Company US Recent Development

Table 77. Sumitomo Electric Industries, Ltd Company Information

Table 78. Sumitomo Electric Industries, Ltd Business Overview

Table 79. Sumitomo Electric Industries, Ltd Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 80. Sumitomo Electric Industries, Ltd Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 81. Sumitomo Electric Industries, Ltd Recent Development

Table 82. General Cable Superconductors Ltd. Company Information

Table 83. General Cable Superconductors Ltd. Business Overview

Table 84. General Cable Superconductors Ltd. Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 85. General Cable Superconductors Ltd. Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 86. General Cable Superconductors Ltd. Recent Development

Table 87. Nexans SA Company Information

Table 88. Nexans SA Business Overview

Table 89. Nexans SA Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 90. Nexans SA Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 91. Nexans SA Recent Development

Table 92. ASG Superconductors SpA Company Information

Table 93. ASG Superconductors SpA Business Overview

Table 94. ASG Superconductors SpA Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 95. ASG Superconductors SpA Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 96. ASG Superconductors SpA Recent Development

Table 97. Luvata U.K. Company Information

Table 98. Luvata U.K. Business Overview

Table 99. Luvata U.K. Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 100. Luvata U.K. Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 101. Luvata U.K. Recent Development

Table 102. SuNam Co., Ltd. Company Information

Table 103. SuNam Co., Ltd. Business Overview

Table 104. SuNam Co., Ltd. Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 105. SuNam Co., Ltd. Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 106. SuNam Co., Ltd. Recent Development

Table 107. Superconductor Technologies Inc Company Information

Table 108. Superconductor Technologies Inc Business Overview

Table 109. Superconductor Technologies Inc Superconducting Magnetic Energy Storage (SMES) Systems Revenue (US\$ Million), Global Share (%) and Gross Margin (2019-2024)

Table 110. Superconductor Technologies Inc Superconducting Magnetic Energy Storage (SMES) Systems Product Portfolio

Table 111. Superconductor Technologies Inc Recent Development

Table 112. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 113. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Country (2019-2024) & (US\$ Million)

Table 114. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Country (2019-2024)

Table 115. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 116. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Share Forecast by Country (2025-2030)

Table 117. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 118. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Country (2019-2024) & (US\$ Million)

Table 119. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Country (2019-2024)

Table 120. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 121. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Share Forecast by Country (2025-2030)

Table 122. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 123. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Country (2019-2024) & (US\$ Million)

Table 124. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Country (2019-2024)

Table 125. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 126. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Share Forecast by Country (2025-2030)

Table 127. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 128. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Country (2019-2024) & (US\$ Million)

Table 129. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Country (2019-2024)

Table 130. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 131. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Share Forecast by Country (2025-2030)

Table 132. Middle East & Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (CAGR) by Country (US\$ Million): 2019 VS 2023 VS 2030

Table 133. Middle East & Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size by Country (2019-2024) & (US\$ Million)

Table 134. Middle East & Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Country (2019-2024)

Table 135. Middle East & Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Forecast by Country (2025-2030) & (US\$ Million)

Table 136. Middle East & Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Share Forecast by Country (2025-2030)

Table 137. Research Programs/Design for This Report

Table 138. Authors List of This Report

Table 139. Secondary Sources

Table 140. Primary Sources

List Of Figures

LIST OF FIGURES

- Figure 1. Superconducting Magnetic Energy Storage (SMES) Systems Product Picture
- Figure 2. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size (US\$ Million), 2019 VS 2023 VS 2030
- Figure 3. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size (2019-2030) & (US\$ Million)
- Figure 4. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Region: 2023 VS 2030
- Figure 5. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Region (2019-2030)
- Figure 6. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (2019-2030) & (US\$ Million)
- Figure 7. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (2019-2030) & (US\$ Million)
- Figure 8. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (2019-2030) & (US\$ Million)
- Figure 9. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (2019-2030) & (US\$ Million)
- Figure 10. Middle East & Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Growth Rate (2019-2030) & (US\$ Million)
- Figure 11. Product Picture of Low Temperature SMES
- Figure 12. Global Low Temperature SMES Market Size YoY Growth (2019-2030) & (US\$ Million)
- Figure 13. Product Picture of High Temperature SMES
- Figure 14. Global High Temperature SMES Market Size YoY Growth (2019-2030) & (US\$ Million)
- Figure 15. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Overview by Type (2019-2030) & (US\$ Million)
- Figure 16. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Type 2023 VS 2030
- Figure 17. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Type (2019-2030)
- Figure 18. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Type (2019-2030)
- Figure 19. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Type (2019-2030)

Figure 20. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Type (2019-2030)

Figure 21. Middle East and Africa Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Type (2019-2030)

Figure 22. Product Picture of Power System

Figure 23. Global Power System Market Size YoY Growth (2019-2030) & (US\$ Million)

Figure 24. Product Picture of Industrial Use

Figure 25. Global Industrial Use Market Size YoY Growth (2019-2030) & (US\$ Million)

Figure 26. Product Picture of Research Institution

Figure 27. Global Research Institution Market Size YoY Growth (2019-2030) & (US\$ Million)

Figure 28. Product Picture of Others

Figure 29. Global Others Market Size YoY Growth (2019-2030) & (US\$ Million)

Figure 30. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Size Overview by Application (2019-2030) & (US\$ Million)

Figure 31. Global Superconducting Magnetic Energy Storage (SMES) Systems Market Share by Application 2023 VS 2030

Figure 32. North America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Application (2019-2030)

Figure 33. Europe Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Application (2019-2030)

Figure 34. Asia-Pacific Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Application (2019-2030)

Figure 35. Latin America Superconducting Magnetic Energy Storage (SMES) Systems Market Size Share by Application (2019-2030)

Figure 36. Mid

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