

Global Modular Multilevel Converters (MMC) Static Synchronous Compensator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Modular Multilevel Converters (MMC) Static Synchronous Compensator market size is expected to reach \$ 2550 million by 2032, rising at a market growth of 7.8% CAGR during the forecast period (2026-2032).

Modular Multilevel Converters (MMC) Static Synchronous Compensator refers to a static synchronous compensator based on modular multilevel converter topology. It is a high-end power electronics device within the Flexible AC Transmission Systems (FACTS) and dynamic reactive power compensation segment. By using a voltage-source converter composed of multiple power submodules, an MMC STATCOM can rapidly inject or absorb reactive power to provide dynamic voltage support, power factor correction, flicker mitigation, harmonic improvement, oscillation damping, and weak-grid stabilization. It is mainly used in transmission networks, renewable energy integration, offshore wind, large-scale solar bases, electric arc furnaces, mining operations, rail transit, data centers, and heavy industrial loads.

The core value of Modular Multilevel Converters (MMC) Static Synchronous Compensator lies in combining high-voltage, high-capacity power electronics with dynamic reactive power compensation. It can respond to grid voltage fluctuations within milliseconds and rapidly inject or absorb reactive power, providing stable support for transmission and distribution networks, renewable energy plants, and large industrial loads. Compared with traditional capacitor banks, mechanically switched compensation equipment, and thyristor-based SVC systems, MMC STATCOM offers higher output waveform quality, lower harmonic distortion, stronger modular scalability, better reactive power support under low-voltage conditions, and faster dynamic response. These features make it particularly suitable for weak grids, voltage fluctuations, deteriorating

power quality, short-term impact loads, and grid stability challenges caused by high penetration of wind and solar power. As renewable energy capacity continues to grow, power grids are no longer simply passive energy delivery systems; they increasingly need fast regulation, dynamic support, and disturbance suppression capabilities. MMC STATCOM is becoming one of the key equipment categories addressing this structural transition.

From a global industry perspective, Modular Multilevel Converters (MMC) Static Synchronous Compensator remains a specialized market with high technical barriers, strong project characteristics, and concentrated customer demand. Europe and North America have accumulated earlier experience in Flexible AC Transmission Systems, grid stability control, and high-end FACTS projects, allowing companies such as Hitachi Energy, Siemens Energy, and GE Vernova to maintain strong positions through long-term project references, control and protection expertise, and global delivery capabilities. Japanese and Korean manufacturers also have solid technical foundations in high-capacity power electronics, transmission and distribution equipment, and utility projects, with Mitsubishi Electric, Toshiba, Hyosung Heavy Industries, and LS ELECTRIC competing in both domestic and overseas markets. In China, demand is being driven by large renewable energy bases, ultra-high-voltage transmission, offshore wind integration, industrial power quality improvement, and localization of high-voltage SVG and STATCOM systems. Companies such as NR Electric, Sieyuan Electric are building a more complete domestic supply chain. Overall, the competitive landscape is characterized by global FACTS leaders dominating high-end transmission-level projects, while Chinese and Asian suppliers are rapidly expanding their share in high-voltage SVG and STATCOM applications.

Looking ahead, the growth potential of Modular Multilevel Converters (MMC) Static Synchronous Compensator will mainly come from higher renewable penetration, weak-grid support, power grid flexibility investment, industrial power quality management, offshore wind transmission, expansion of data centers and heavy loads, and the rise of grid-forming power electronic equipment. As the share of traditional synchronous generation declines, power systems will place greater emphasis on fast reactive power support, voltage stability during disturbances, oscillation damping, and dynamic voltage recovery. STATCOM is therefore evolving from a compensation device into a critical stability control node in next-generation power systems. Over the long term, suppliers with large-capacity modular design capabilities, highly reliable power submodules, advanced control and protection algorithms, digital monitoring, low-loss cooling systems, and energy-storage coupling capabilities will be better positioned to capture high-value opportunities in renewable energy bases, interregional transmission, electric

arc furnaces, rail transit, and data centers. Although MMC STATCOM is not a mass-market equipment category, its technical value, project value, and strategic importance to secure grid operation are steadily increasing.

This report studies the global Modular Multilevel Converters (MMC) Static Synchronous Compensator demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Modular Multilevel Converters (MMC) Static Synchronous Compensator, 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 Modular Multilevel Converters (MMC) Static Synchronous Compensator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Modular Multilevel Converters (MMC) Static Synchronous Compensator total market, 2021-2032, (USD Million)

Global Modular Multilevel Converters (MMC) Static Synchronous Compensator total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Modular Multilevel Converters (MMC) Static Synchronous Compensator total market, key domestic companies, and share, (USD Million)

Global Modular Multilevel Converters (MMC) Static Synchronous Compensator revenue by player, revenue and market share 2021-2026, (USD Million)

Global Modular Multilevel Converters (MMC) Static Synchronous Compensator total market by Type, CAGR, 2021-2032, (USD Million)

Global Modular Multilevel Converters (MMC) Static Synchronous Compensator total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Modular Multilevel Converters (MMC) Static Synchronous Compensator 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 Hitachi Energy Ltd., Siemens Energy AG, Mitsubishi Electric Corporation, GE Vernova, Hyosung Heavy Industries, Toshiba, LS ELECTRIC, Nided Industrial Solutions, NARI Technology, Sieyuan Electric, 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 Modular Multilevel Converters (MMC) Static Synchronous Compensator 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 Modular Multilevel Converters (MMC) Static Synchronous Compensator Market,
By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Modular Multilevel Converters (MMC) Static Synchronous Compensator Market,
Segmentation by Type:

Full Bridge Type

Half Bridge Type

Others

Global Modular Multilevel Converters (MMC) Static Synchronous Compensator Market, Segmentation by Voltage:

100KV Below

100-200KV

200KV Above

Global Modular Multilevel Converters (MMC) Static Synchronous Compensator Market, Segmentation by Delivery Form:

Substation-installed STATCOM

Containerized STATCOM

Others

Global Modular Multilevel Converters (MMC) Static Synchronous Compensator Market, Segmentation by Application:

Renewable Energy

Electric Utilities

Industrial & Manufacturing

Others

Companies Profiled:

Hitachi Energy Ltd.

Siemens Energy AG

Mitsubishi Electric Corporation

GE Vernova

Hyosung Heavy Industries

Toshiba

LS ELECTRIC

Nided Industrial Solutions

NARI Technology

Sieyuan Electric

Key Questions Answered

1. How big is the global Modular Multilevel Converters (MMC) Static Synchronous Compensator market?
2. What is the demand of the global Modular Multilevel Converters (MMC) Static Synchronous Compensator market?
3. What is the year over year growth of the global Modular Multilevel Converters (MMC) Static Synchronous Compensator market?
4. What is the total value of the global Modular Multilevel Converters (MMC) Static Synchronous Compensator market?
5. Who are the Major Players in the global Modular Multilevel Converters (MMC) Static Synchronous Compensator market?
6. What are the growth factors driving the market demand?

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