

# Global Static Synchronous Compensator (STATCOM) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Static Synchronous Compensator (STATCOM) market size is expected to reach \$ 4184 million by 2032, rising at a market growth of 11.3% CAGR during the forecast period (2026-2032).

In 2025, the average gross profit margin of the global Static Synchronous Compensator (STATCOM) industry was 24.13%.

Key upstream raw materials include power semiconductor devices, capacitors, reactors, and transformers.

Upstream suppliers include Mitsubishi Electric, ABB, Toshiba, Siemens Energy, and Infineon.

Downstream customers include State Grid Corporation of China, China Southern Power Grid Co., Ltd., TenneT, Amprion, and National Grid.

A Static Synchronous Compensator (STATCOM) is a dynamic reactive power compensation device based on power electronic converter technology. Typically connected in parallel to the power system via a voltage-source converter, it achieves dynamic control of grid reactive power and node voltage by rapidly adjusting the amplitude, phase, and reactive current of the converter's output voltage. Compared to traditional mechanically switched capacitors and reactors or certain thyristor-controlled compensation devices, STATCOMs offer advantages such as rapid response, strong continuous regulation capabilities, superior reactive power support under low-voltage conditions, and a relatively small footprint. They are used to enhance power system voltage stability, power factor, and transmission capacity, while mitigating voltage

fluctuations, flicker, and other power quality issues.

The core components of a STATCOM typically include a power converter, a DC-side unit, a coupling reactor or transformer, a control and protection system, and auxiliary equipment such as cooling systems. By monitoring operating parameters—such as grid voltage, current, and reactive power—the device controls power semiconductor devices to rapidly alter the output current, thereby absorbing or generating reactive power according to system requirements. When grid voltage is low, the STATCOM can supply capacitive reactive power to support the voltage; when grid voltage is high, it can absorb inductive reactive power, enabling dynamic voltage regulation. Depending on system voltage levels, compensation capacity, and application requirements, product capacities range from small-scale units for distribution and industrial applications to large-scale systems (hundreds of Mvar) for high-voltage transmission and renewable energy grid integration projects.

E-STATCOM is an enhanced device formed by integrating an energy storage system into a traditional STATCOM; it is referred to as an energy-storage-enhanced static synchronous compensator. Traditional Static Synchronous Compensators (STATCOMs) primarily achieve reactive power regulation through energy exchange between the AC system and the DC side, resulting in limited sustained active power output capability. By integrating batteries, supercapacitors, or other energy storage devices on the DC side, E-STATCOMs not only provide rapid reactive power compensation and voltage support but also enable bidirectional active power regulation over a specific duration. Consequently, E-STATCOMs can provide simultaneous or independent active and reactive power support and participate in functions such as frequency regulation, rapid power balancing, inertia emulation, and stability control for weak grids; they are particularly well-suited for power systems characterized by high penetrations of renewable energy and low inertia.

STATCOMs find wide application across the generation, grid, and load sectors. Applications on the generation side—including wind farms, photovoltaic (PV) plants, renewable energy bases, energy storage stations, and other generation facilities—focus on grid integration, voltage support, fault ride-through, and system stability control. Grid-side applications—covering transmission lines, substations, regional grids, and distribution networks—target dynamic reactive power compensation, voltage stability, increased transmission capacity, and improved system transient performance. Load-side applications—serving sectors such as iron and steel, metallurgy, mining, electric arc furnaces, rail transit, petrochemicals, data centers, and other large-scale industrial and commercial loads—address power factor correction, the mitigation of voltage fluctuations

and flicker, and power quality improvement. With the expanding installed capacity of renewable energy sources like wind and PV, alongside the increasing prevalence of power electronics in power systems, STATCOMs are evolving from traditional dynamic reactive power compensation devices into comprehensive power electronic systems capable of providing voltage support, frequency support, and system stability control.

Static Synchronous Compensators (STATCOMs) have evolved from traditional power quality management devices into critical grid-stabilizing equipment within new energy power systems. While historical demand for STATCOMs centered on sectors characterized by impulsive loads and reactive power fluctuations—such as steelmaking, metallurgy, and electrified railways—the rapid expansion of installed capacity for wind and solar power has shifted the primary focus of their application toward the generation and grid sectors. New energy sources are characterized by intermittency, volatility, and a heavy reliance on power electronic interfaces; as the inertia, voltage support, and dynamic reactive power regulation traditionally provided by synchronous generators diminish, the grid increasingly demands rapid reactive power compensation, dynamic voltage control, and fault ride-through capabilities. Consequently, STATCOMs are no longer merely auxiliary devices for addressing localized power factor or voltage fluctuation issues; they have become vital infrastructure for enhancing the capacity of weak grids to accommodate new energy and for ensuring the safe, stable operation of power systems.

The grid sector remains the most valuable market segment for large-capacity STATCOMs globally; individual projects typically involve substantial capacity and demand high standards for equipment reliability, control performance, system integration capabilities, and long-term operational experience. Major grid and transmission operators—such as State Grid Corporation of China, China Southern Power Grid, POWERGRID, National Grid, TenneT, and Amprion—represent key end-customers in the industry. Meanwhile, large-scale wind and solar power bases, offshore wind projects, and long-distance renewable energy transmission initiatives are generating new incremental demand. Demand for STATCOM deployment is notably higher in regions with high renewable energy penetration, long transmission distances, or low grid short-circuit capacity compared to traditional grid environments. Future demand growth is expected to stem largely from renewable energy grid integration and investments in grid stability, whereas the market among traditional industrial users is projected to maintain steady, moderate growth.

The Asia-Pacific region currently stands as one of the most significant markets for STATCOMs; countries such as China and India are driving strong demand for dynamic

reactive power compensation equipment through the continuous development of large-scale renewable energy bases, grid upgrades, and UHV (Ultra-High Voltage) transmission projects. The European market is primarily propelled by the energy transition, the expansion of offshore wind power, and the retirement of traditional synchronous generation sources, leading to an increasing need for dynamic voltage support and enhanced system strength. Growth in the North American market is closely linked to renewable energy grid integration, the modernization of aging grid infrastructure, and the emergence of large new loads, such as data centers. In recent years, the Middle East has seen large-scale development of photovoltaic and wind power alongside the construction of cross-regional transmission networks, making it a key market for STATCOM enterprises. Overall, future market growth will be concentrated in countries and regions experiencing rapid increases in renewable energy penetration and sustained investment in grid infrastructure.

The STATCOM industry presents significant barriers regarding technology, project experience, and customer certification. High-voltage, high-capacity projects—ranging from tens to hundreds of Mvar—typically require companies to possess capabilities spanning power semiconductor applications, power electronics topology design, control algorithms, high-voltage insulation, system simulation, engineering design, and on-site commissioning. Consequently, the global high-end market remains dominated by major power equipment manufacturers such as Hitachi, Siemens Energy, and GE Vernova, alongside select Chinese vendors with strong capabilities in flexible transmission technology. Leveraging extensive engineering experience gained from domestic renewable energy and grid projects, Chinese enterprises enjoy competitive advantages in cost control, local supply chains, and delivery speed, allowing them to steadily expand their overseas market share. Future industry competition will shift away from a sole focus on equipment price toward capabilities such as system stability control, long-term operational reliability, grid-forming functionality, and project experience under complex grid conditions. The global market is currently dominated by manufacturers from Europe, the United States, China, and Japan. Leading global STATCOM manufacturers include Hitachi, Siemens Energy, Siemens, Sieyuan Electric, Xinfengguang Electronic Technology, GE Vernova, Shandong Taikai Power Electronics, Mitsubishi Electric, TBEA, American Superconductor, NR Electric, Nidec, Liaoning Rongxin Xingye Power Technology, Hyosung, and Shenzhen Sinexcel Electric; the top three manufacturers account for 47.78% of the global market share.

The core value of STATCOMs lies in components such as power semiconductor modules, converter valves, DC capacitors, control and protection systems, transformers/reactors, and system integration; specifically, power devices (such as

IGBTs and IGCTs) and control systems directly influence equipment efficiency, response speed, and reliability. Driven by continuous improvements in the performance of high-voltage, high-power semiconductor devices and the maturation of topologies like the Modular Multilevel Converter (MMC), STATCOM technology is evolving toward higher voltages, larger capacities, lower losses, and modular designs. At the same time, equipment manufacturing cost is not the sole determinant of project competitiveness; the value contribution of grid simulation, system design, on-site commissioning, and lifecycle services is rising—a key factor enabling large-scale power equipment enterprises to maintain long-term competitive advantages.

Traditional STATCOMs are evolving from simple dynamic reactive power compensation devices into equipment capable of providing more proactive grid support. Future key technical directions for the industry include grid-forming control, virtual synchronous machine technology, voltage-source control, and the integration of STATCOMs with energy storage systems. Notably, by incorporating energy storage, E-STATCOMs can not only provide dynamic reactive power but also output or absorb active power for short durations, thereby supporting frequency regulation, inertia emulation, and rapid load change compensation. As high-power, highly volatile loads—such as large-scale AI data centers, semiconductor plants, and new energy bases—proliferate, E-STATCOMs may gradually carve out a new market segment. However, considering costs and application necessity, traditional STATCOMs will likely remain the market mainstay for the foreseeable future, with E-STATCOMs initially deployed primarily in specific scenarios requiring high grid stability.

The STATCOM industry remains in a phase of structural growth. This growth is driven not merely by the routine replacement of legacy power equipment, but by fundamental shifts in global power system structures. Factors such as the rising share of new energy sources, increased power electronics integration, a declining proportion of synchronous machines, and the rapid growth of large-scale, novel loads are continuously driving demand for rapid dynamic regulation resources. Consequently, the industry positioning of STATCOMs is shifting from "optional power quality equipment" to "essential grid stability equipment" for specific new energy and weak-grid projects. In the future, enterprises that master high-voltage, high-power electronics, grid-forming control, and complex grid simulation—while possessing experience in global project delivery and long-term operation—will be better positioned to secure high-value, large-capacity projects. Industry competition will increasingly evolve from a contest of equipment manufacturing capabilities to a competition based on the ability to provide comprehensive power system solutions.

## Report Scope

This report studies the global Static Synchronous Compensator (STATCOM) production, demand, key manufacturers, and key regions.

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

## Highlights and key features of the study

Global Static Synchronous Compensator (STATCOM) total production and demand, 2021-2032, (Mvar)

Global Static Synchronous Compensator (STATCOM) total production value, 2021-2032, (USD Million)

Global Static Synchronous Compensator (STATCOM) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Mvar), (based on production site)

Global Static Synchronous Compensator (STATCOM) consumption by region & country, CAGR, 2021-2032 & (Mvar)

U.S. VS China: Static Synchronous Compensator (STATCOM) domestic production, consumption, key domestic manufacturers and share

Global Static Synchronous Compensator (STATCOM) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Mvar)

Global Static Synchronous Compensator (STATCOM) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Mvar)

## Global Static Synchronous Compensator (STATCOM) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Mvar)

This report profiles key players in the global Static Synchronous Compensator (STATCOM) 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 Hitachi, Siemens Energy, Sieyuan Electric, WindSun Science Technology, GE Vernova, Shandong Taikai Power Electronic, Mitsubishi Electric, TBEA, American Superconductor, Nari Technology, 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 Static Synchronous Compensator (STATCOM) market

### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Mvar) and average price (US\$/Mvar) by manufacturer, 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 Static Synchronous Compensator (STATCOM) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## **Market Segmentation**

### **Global Static Synchronous Compensator (STATCOM) Market, Segmentation by Type:**

< 100 kvar

100 kvar - 500 kvar

500 kvar - 1 Mvar

1 Mvar - 10 Mvar

10 Mvar - 100 Mvar

>100 Mvar

### **Global Static Synchronous Compensator (STATCOM) Market, Segmentation by Topological Structure:**

Two-Level VSC STATCOM

Three-Level NPC STATCOM

Modular Multilevel Converter STATCOM

## **Global Static Synchronous Compensator (STATCOM) Market, Segmentation by Installation Method:**

Indoor STATCOM

Outdoor STATCOM

Containerized STATCOM

## **Global Static Synchronous Compensator (STATCOM) Market, Segmentation by Application:**

Grid Side

Generation Side

User Side

## **Companies Profiled:**

Hitachi

Siemens Energy

Sieyuan Electric

WindSun Science Technology

GE Vernova

Shandong Taikai Power Electronic

Mitsubishi Electric

TBEA

American Superconductor

Nari Technology

Nidec

Liaoning Rongxin Xingye Power

Hyosung

Shenzhen Sinexcel Electric

Shenzhen Hopewind Electric

Toshiba

China Xd Electric

Ingeteam

## Key Questions Answered

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

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