

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G7C7E847839CEN.html>

Date: August 2026

Pages: 144

Price: US\$ 4,480.00 (Single User License)

ID: G7C7E847839CEN

Abstracts

The global Thyristor Switched Reactor and Capacitor (TSR and TSC) market size is expected to reach \$ 2363 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Thyristor switched reactors and capacitors are dynamic reactive power compensation equipment that use thyristor valve groups to rapidly switch or regulate parallel reactor and capacitor branches. They are typically used as core branches of static var compensators or hybrid dynamic reactive power compensation systems, absorbing or releasing reactive power according to demand under conditions such as grid voltage fluctuations, load impacts, power factor deviations, and harmonic disturbances. Their core functions include voltage support, power factor correction, flicker suppression, overvoltage control, transmission capacity enhancement, and reduction of equipment losses. Key technical architectures include anti-parallel thyristor valves, zero-crossing triggering, branch-level staged switching, capacitor banks, current-limiting or phase-controlled reactors, harmonic filters, digital control and protection systems, and cooling systems. Typical applications cover transmission and distribution substations, long-distance AC transmission, renewable energy grid connection, high-impact industrial loads such as electric arc furnaces and rolling mills, mining, rail transit, petrochemicals, data centers, and other high-capacity power consumption scenarios. Major customers include power grid companies, power generation and renewable energy project owners, steel and metallurgical enterprises, industrial parks, and power quality management system integrators.

Thyristor switched reactors and capacitors are mature dynamic reactive power compensation technologies that continue to hold strong engineering value. Their core

advantage does not lie in a single device, but in the integration of reactors, capacitors, thyristor valves, filter branches, and digital control and protection systems to form fast reactive power regulation capability in complex AC networks. Compared with mechanically switched solutions, thyristor branches can reduce inrush current, shorten response time, and lower maintenance pressure under frequent operation. Compared with pure voltage source compensation solutions, they remain highly applicable in large-capacity, high-voltage, and cost-sensitive engineering scenarios. As transmission and distribution networks place higher requirements on voltage quality, power factor, and transient stability, TSR and TSC are no longer only upgraded components of conventional capacitor or reactor banks, but key technical units in dynamic reactive power management systems on both the grid side and the user side.

From the perspective of downstream applications, demand for these products mainly comes from grid stabilization, renewable energy integration, and high-impact industrial load management. Long-distance AC transmission, weak-grid access, and large substations require fast voltage support and improved transmission capacity. Wind power, solar power, and energy storage applications require stable voltage at the point of interconnection and reduced fluctuation impact. High-impact loads such as steel metallurgy, electric arc furnaces, rolling mills, mining, and rail transit place greater emphasis on flicker mitigation, harmonic control, and power factor improvement. The technical strengths of TSR and TSC in these scenarios are fast response, wide capacity range, high reliability, and strong engineering adaptability. Future demand growth will not only come from new installations, but also from upgrades of aging reactive power compensation equipment, industrial energy efficiency improvement, stricter power quality assessments, and system-level compensation needs driven by higher renewable energy penetration.

Industry competition will center on system integration capability, key component reliability, and scenario-specific engineering experience. High-voltage SVC and FACTS projects require capabilities in power system simulation, thyristor valve design, insulation and cooling design, control and protection algorithms, field commissioning, and long-term operation and maintenance, making competition closer to engineering system competition. Medium- and low-voltage TSC and hybrid compensation equipment place greater emphasis on modularization, cost control, response speed, intelligent control, and channel coverage. With the development of SVG, active filtering, and digital monitoring technologies, TSR and TSC will not simply be replaced, but will increasingly serve as staged reactive power foundation units within hybrid compensation systems. Future opportunities will be concentrated in high-capacity scenarios, cost-sensitive scenarios, upgrades of existing SVC systems, and power quality management projects.

that require both fast switching and engineering stability.

This report studies the global Thyristor Switched Reactor and Capacitor (TSR and TSC) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thyristor Switched Reactor and Capacitor (TSR and TSC) 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 Thyristor Switched Reactor and Capacitor (TSR and TSC) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) total production and demand, 2021-2032, (Units)

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) total production value, 2021-2032, (USD Million)

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Thyristor Switched Reactor and Capacitor (TSR and TSC) domestic production, consumption, key domestic manufacturers and share

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) production by Voltage Level, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Thyristor Switched Reactor and Capacitor (TSR and TSC) 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 ABB, Hitachi Energy, Siemens Energy, GE Vernova, Mitsubishi Electric, Fuji Electric, LS ELECTRIC, NR Electric Co., Ltd., Sunking Technology Group Limited, EPRLAB, 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 Thyristor Switched Reactor and Capacitor (TSR and TSC) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Voltage Level, 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 Thyristor Switched Reactor and Capacitor (TSR and TSC) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) Market, Segmentation by Voltage Level:

Low-Voltage AC 1000 V and Below

Medium Voltage 1 kV to 35 kV

High Voltage Above 35 kV to 220 kV

Extra-High Voltage Above 220 kV

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) Market, Segmentation by Compensation Capacity:

Below 100 kVAr

100 kVAr to MVar Level

10 MVar Level

100 MVar and Above

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) Market, Segmentation by Response Speed:

Response Below 10 ms

Response From 10 ms to 20 ms

Response Above 20 ms

Global Thyristor Switched Reactor and Capacitor (TSR and TSC) Market, Segmentation by Application:

Electrical Grid

Metallurgy and Steel

Mining

New Energy

Chemical

Transport

Other

Companies Profiled:

ABB

Hitachi Energy

Siemens Energy

GE Vernova

Mitsubishi Electric

Fuji Electric

LS ELECTRIC

NR Electric Co., Ltd.

Sunking Technology Group Limited

EPRLAB

Shandong Hada Electric Co., Ltd.

ABPS Solution Pvt Ltd

ELECTRONICON Kondensatoren GmbH

Shandong Taikai Electric Power Construction Co., Ltd.

Shandong Taikai Power Electronics Co., Ltd.

Suzhou Industrial Park Surong Electric Co., Ltd.

Key Questions Answered:

1. How big is the global Thyristor Switched Reactor and Capacitor (TSR and TSC) market?
2. What is the demand of the global Thyristor Switched Reactor and Capacitor (TSR and TSC) market?
3. What is the year over year growth of the global Thyristor Switched Reactor and Capacitor (TSR and TSC) market?
4. What is the production and production value of the global Thyristor Switched Reactor and Capacitor (TSR and TSC) market?
5. Who are the key producers in the global Thyristor Switched Reactor and Capacitor (TSR and TSC) market?
6. What are the growth factors driving the market demand?

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