

Global Outdoor Gas Insulated Switchgear Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Outdoor Gas Insulated Switchgear market size is expected to reach \$ 5876 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032).

Outdoor Gas Insulated Switchgear refers to weather-resistant electrical switching, protection, isolation and control equipment in which energized conductors and switching components are enclosed within grounded metal compartments and insulated by SF₆, clean or dry air, or other engineered gas media. The research object covers outdoor GIS from 24 kV distribution equipment to 800 kV ultra-high-voltage systems, including modular bays, ring main units and complete gas-insulated substations. Typical equipment integrates circuit breakers, disconnectors, earthing switches, gas-insulated busbars, cable or bushing connections, instrument transformers, operating mechanisms, protection devices and monitoring units. Key parameters include rated voltage, continuous current, short-circuit breaking and withstand current, insulation level, gas tightness, enclosure protection, operating-temperature range, altitude capability, pollution resistance and mechanical endurance. Outdoor Gas Insulated Switchgear supports power transmission and distribution, wind power, photovoltaics and energy storage, thermal, hydro and nuclear generation, transportation infrastructure, and other outdoor power systems exposed to climatic or environmental stress.

Key Findings

Global sales volume in 2025 is approximately 39,200 units.

The blended market average price is approximately USD 105000 per unit

Power transmission and distribution forms the central demand base for outdoor GIS

Sealed enclosures protect switching components in high-pollution and severe-weather locations

Projects above 420 kV create specialized demand for bulk power transmission

Market Trends

Outdoor Gas Insulated Switchgear is evolving toward lower gas volume, improved enclosure sealing, modular factory assembly, digital condition monitoring and climate-adapted designs. SF₆ remains technically established across broad voltage ranges, but clean-air and alternative-gas systems are extending into transmission applications. Product development also emphasizes factory-tested bays, lightweight modules, online gas monitoring, partial-discharge diagnostics and digital protection. Outdoor capability is reducing dependence on dedicated switchgear buildings, while specialized sealing, heating and insulation coordination are improving performance in high-cold, high-altitude and high-pollution environments.

Market Dynamics

The market is shaped by the need to install reliable switching capacity at outdoor substations while reducing land use and protecting primary components from environmental exposure. Purchasing decisions prioritize voltage and fault ratings, gas tightness, temperature and altitude capability, pollution resistance, installation time, lifecycle cost and service availability. Standardized distribution units and project-engineered transmission GIS have different procurement structures, making certification, utility qualification, reference installations and long-term technical support central to supplier selection.

Drivers

Transmission expansion, distribution-network reinforcement and renewable-energy construction are the principal demand drivers. Outdoor GIS enables utilities to develop

substations where available land, pollution, salt, humidity or severe weather makes conventional open-air layouts difficult. Wind, photovoltaic and storage projects require collector and grid-connection equipment at geographically dispersed sites. Thermal, hydro and nuclear power stations need dependable high-voltage switching for generator connections and outgoing transmission circuits. Replacement of aging substations and demand for shorter construction schedules further support modular, factory-tested GIS that can be installed with less civil work.

Restraints

Outdoor GIS requires higher initial investment, specialized engineering and stringent gas-management procedures. Enclosures, seals, bushings and operating mechanisms must withstand temperature cycling, precipitation, ultraviolet exposure, corrosion and mechanical stress throughout long service lives. SF₆-based equipment creates leakage monitoring, recovery and end-of-life obligations, while alternative media require additional qualification across different voltage and climate conditions. High-altitude applications need adjusted insulation coordination, and high-cold environments may require heating or modified gas-pressure management. Utility approval cycles, limited high-power testing capacity and project-specific standards can also delay orders and delivery.

Opportunities

Major opportunities arise from SF₆ replacement, renewable-energy connections, outdoor substation renewal and expansion of long-distance transmission. Environment-specific products can address high-altitude grids, cold regions, coastal wind farms and heavily polluted industrial zones. Compact outdoor GIS can reduce land and building requirements and is suitable for prefabricated, mobile or rapidly deployed substations. Digital sensors create lifecycle revenue through gas-density monitoring, partial-discharge detection, mechanism diagnostics and predictive maintenance. Higher-voltage alternatives are also broadening the addressable decarbonization market, while 800 kV-class GIS demonstrates the role of compact equipment in bulk power transmission.

Challenges

The central technical challenge is maintaining insulation strength and gas tightness

under wide temperature ranges, altitude-related pressure changes, contamination and repeated mechanical loading. High-cold conditions can alter gas density and mechanism behavior, while high altitude reduces external insulation performance around bushings and terminations. Pollution, salt fog and condensation increase requirements for enclosure coatings and creepage design. Manufacturers must also validate alternative gases at progressively higher voltages without compromising interruption performance or footprint. Digitalized systems introduce cybersecurity and interoperability requirements, and customized utility specifications reduce the economies available from standardized modular production.

Industry Chain Analysis

The upstream chain includes copper and aluminum conductors, stainless and electrical steel, SF₆, clean air and alternative gas mixtures, epoxy and composite insulation, porcelain or composite bushings, vacuum or gas interrupters, seals, cable terminations, operating mechanisms, heaters, sensors, relays and communication devices. Outdoor performance depends on gas purity, welded-enclosure quality, corrosion protection, seal durability, insulation consistency and material behavior across temperature and altitude conditions. Testing resources are critical because equipment requires dielectric, short-circuit, temperature-rise, internal-arc, mechanical-endurance, leakage and environmental validation.

The midstream covers electric-field and thermal design, climate adaptation, enclosure production, gas-compartment welding, busbar and switching-unit assembly, protection configuration, leak testing, factory acceptance, transport, installation and commissioning. Downstream customers include utilities, power producers, renewable-energy developers, transportation authorities, EPC contractors and industrial users. Costs are concentrated in conductive metals, interrupters, insulation systems, precision enclosures, testing and project engineering. Profitability generally increases with voltage, environmental customization, digital functions and service scope, while standardized distribution products depend more heavily on manufacturing scale, modular design and channel efficiency.

Segment Insights

By voltage, 24 kV and 24–40.5 kV equipment serves secondary distribution, renewable sites, transportation and compact outdoor substations. The 40.5–145 kV class

addresses primary distribution, sub-transmission and renewable collector networks. Products rated 145–245 kV support regional transmission and large generation connections, while 245–420 kV systems serve major grid backbones. The >420–800 kV class addresses extra-high-voltage bulk transmission, and >800 kV equipment is concentrated in specialized ultra-high-voltage projects where power-transfer capacity and land efficiency are critical.

By insulating medium, SF₆-insulated equipment retains broad operating experience and high dielectric performance. The air-insulated category within Outdoor Gas Insulated Switchgear primarily refers to sealed clean-air or dry-air systems that retain a metal-enclosed GIS architecture. Other media include engineered low-global-warming gas mixtures. Standard outdoor products address conventional climates; high-cold, high-altitude and high-pollution designs require adapted gas-pressure systems, heating, bushings, coatings and insulation margins. The USD 105,000-per-set average is a blended indicator because actual prices vary substantially with voltage, bay arrangement, environmental rating, insulation medium and project scope.

Downstream Market Opportunities

Power transmission and distribution provides the principal opportunity through new substations, grid interconnections, capacity reinforcement and replacement of aging outdoor equipment. Wind-power projects require collector and export substations capable of withstanding coastal, offshore or remote-site conditions. Photovoltaic and energy-storage facilities need modular switching for collector circuits, step-up substations and grid connections. Thermal, hydro and nuclear plants require high-availability switching for generator evacuation and auxiliary systems. Transportation infrastructure uses outdoor GIS in railway electrification, metro power systems and other constrained sites. Additional opportunities arise in mining, petrochemicals and heavy industry where pollution resistance and limited maintenance are important.

Regional Insights

Asia-Pacific combines transmission expansion, renewable-energy investment and demand for high-voltage and ultra-high-voltage substations. China supports requirements across all voltage classes through long-distance transmission, utility-grid reinforcement and a large domestic equipment base. Japan and South Korea emphasize reliability, compactness and environmental resilience, while India and

Southeast Asia offer opportunities from electrification and new transmission corridors.

Europe is an important development region for alternative-gas GIS, offshore wind connections and modernization of mature grids. Northern markets require strong low-temperature performance, while industrial and coastal areas create pollution and corrosion requirements. North America offers opportunities through grid resilience, renewable connections and replacement of aging substations, although utility qualification cycles affect supplier entry. The Middle East requires equipment suited to heat, dust and high solar exposure. Latin America and Africa provide selective opportunities in transmission corridors, hydroelectric projects, renewable generation and high-altitude networks. Regional competitiveness depends on climate adaptation, certification, local service and utility references.

Competitive Landscape Analysis

The competitive landscape includes global transmission-technology groups, regional electrical-equipment manufacturers and distribution-focused GIS suppliers. ABB, Siemens Energy, GE Vernova, Hitachi Energy, Mitsubishi Electric and Toshiba compete through broad high-voltage portfolios, utility references, digital integration and global service capabilities. Eaton, Schneider Electric, Ormazabal and Lucy Electric have stronger exposure to compact distribution and renewable-site applications. Fuji Electric and Nissin Electric emphasize engineering quality and established utility relationships, while LS ELECTRIC and Hyosung Heavy Industries combine domestic grid positions with export businesses. CG Power and Industrial Solutions addresses utility and infrastructure demand through regional manufacturing. CHINT, China XD, Pinggao Electric, Shandong Taikai and Sieyuan Electric benefit from China's transmission investment, manufacturing scale and experience in high-voltage projects. Competition centers on maximum voltage and fault ratings, outdoor environmental capability, gas technology, sealing performance, footprint, digital monitoring, project delivery and lifecycle service. Product breadth alone does not establish market ranking because utility qualification and project specifications strongly influence contract awards.

Report Scope

This report studies the global Outdoor Gas Insulated Switchgear production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Outdoor Gas Insulated Switchgear 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 Outdoor Gas Insulated Switchgear that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Outdoor Gas Insulated Switchgear total production and demand, 2021-2032, (Units)

Global Outdoor Gas Insulated Switchgear total production value, 2021-2032, (USD Million)

Global Outdoor Gas Insulated Switchgear production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Outdoor Gas Insulated Switchgear consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Outdoor Gas Insulated Switchgear domestic production, consumption, key domestic manufacturers and share

Global Outdoor Gas Insulated Switchgear production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Outdoor Gas Insulated Switchgear production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Outdoor Gas Insulated Switchgear production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Outdoor Gas Insulated Switchgear 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, Siemens Energy, GE Vernova,

Hitachi Energy, Eaton, Schneider Electric, Mitsubishi Electric, Toshiba, Fuji Electric, Nissin 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 Outdoor Gas Insulated Switchgear 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 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 Outdoor Gas Insulated Switchgear Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Outdoor Gas Insulated Switchgear Supply, Demand and Key Producers, 2026-2032

Global Outdoor Gas Insulated Switchgear Market, Segmentation by Type:

?24 kV

24–40.5 kV

40.5–145 kV

145–245 kV

245–420 kV

>420–800 kV

?800 kV

Global Outdoor Gas Insulated Switchgear Market, Segmentation by Insulating Medium:

SF?-insulated

Air-insulated

Others

Global Outdoor Gas Insulated Switchgear Market, Segmentation by Environmental Rating:

Standard Outdoor Type

High-Cold Type

High-Altitude Type

High-Pollution Type

Others

Global Outdoor Gas Insulated Switchgear Market, Segmentation by Application:

Power Transmission and Distribution

Wind Power

Photovoltaics and Energy Storage

Thermal, Hydro, and Nuclear Power

Transportation Infrastructure

Others

Companies Profiled:

ABB

Siemens Energy

GE Vernova

Hitachi Energy

Eaton

Schneider Electric

Mitsubishi Electric

Toshiba

Fuji Electric

Nissin Electric

LS ELECTRIC

Hyosung Heavy Industries

Ormazabal

Lucy Electric

CG Power and Industrial Solutions

CHINT

China XD

Pinggao Electric

Shandong Taikai

Sieyuan Electric

Key Questions Answered:

1. How big is the global Outdoor Gas Insulated Switchgear market?
2. What is the demand of the global Outdoor Gas Insulated Switchgear market?
3. What is the year over year growth of the global Outdoor Gas Insulated Switchgear market?
4. What is the production and production value of the global Outdoor Gas Insulated Switchgear market?
5. Who are the key producers in the global Outdoor Gas Insulated Switchgear market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Outdoor Gas Insulated Switchgear Introduction
- 1.2 World Outdoor Gas Insulated Switchgear Supply & Forecast
 - 1.2.1 World Outdoor Gas Insulated Switchgear Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Outdoor Gas Insulated Switchgear Production (2021-2032)
 - 1.2.3 World Outdoor Gas Insulated Switchgear Pricing Trends (2021-2032)
- 1.3 World Outdoor Gas Insulated Switchgear Production by Region (Based on Production Site)
 - 1.3.1 World Outdoor Gas Insulated Switchgear Production Value by Region (2021-2032)
 - 1.3.2 World Outdoor Gas Insulated Switchgear Production by Region (2021-2032)
 - 1.3.3 World Outdoor Gas Insulated Switchgear Average Price by Region (2021-2032)
 - 1.3.4 North America Outdoor Gas Insulated Switchgear Production (2021-2032)
 - 1.3.5 Europe Outdoor Gas Insulated Switchgear Production (2021-2032)
 - 1.3.6 China Outdoor Gas Insulated Switchgear Production (2021-2032)
 - 1.3.7 Japan Outdoor Gas Insulated Switchgear Production (2021-2032)
 - 1.3.8 India Outdoor Gas Insulated Switchgear Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Outdoor Gas Insulated Switchgear Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Outdoor Gas Insulated Switchgear Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Outdoor Gas Insulated Switchgear Demand (2021-2032)
- 2.2 World Outdoor Gas Insulated Switchgear Consumption by Region
 - 2.2.1 World Outdoor Gas Insulated Switchgear Consumption by Region (2021-2026)
 - 2.2.2 World Outdoor Gas Insulated Switchgear Consumption Forecast by Region (2027-2032)
- 2.3 United States Outdoor Gas Insulated Switchgear Consumption (2021-2032)
- 2.4 China Outdoor Gas Insulated Switchgear Consumption (2021-2032)
- 2.5 Europe Outdoor Gas Insulated Switchgear Consumption (2021-2032)
- 2.6 Japan Outdoor Gas Insulated Switchgear Consumption (2021-2032)
- 2.7 South Korea Outdoor Gas Insulated Switchgear Consumption (2021-2032)
- 2.8 ASEAN Outdoor Gas Insulated Switchgear Consumption (2021-2032)

2.9 India Outdoor Gas Insulated Switchgear Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Outdoor Gas Insulated Switchgear Production Value by Manufacturer (2021-2026)

3.2 World Outdoor Gas Insulated Switchgear Production by Manufacturer (2021-2026)

3.3 World Outdoor Gas Insulated Switchgear Average Price by Manufacturer (2021-2026)

3.4 Outdoor Gas Insulated Switchgear Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Outdoor Gas Insulated Switchgear Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Outdoor Gas Insulated Switchgear in 2025

3.5.3 Global Concentration Ratios (CR8) for Outdoor Gas Insulated Switchgear in 2025

3.6 Outdoor Gas Insulated Switchgear Market: Overall Company Footprint Analysis

3.6.1 Outdoor Gas Insulated Switchgear Market: Region Footprint

3.6.2 Outdoor Gas Insulated Switchgear Market: Company Product Type Footprint

3.6.3 Outdoor Gas Insulated Switchgear Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Outdoor Gas Insulated Switchgear Production Value Comparison

4.1.1 United States VS China: Outdoor Gas Insulated Switchgear Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Outdoor Gas Insulated Switchgear Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Outdoor Gas Insulated Switchgear Production Comparison

4.2.1 United States VS China: Outdoor Gas Insulated Switchgear Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Outdoor Gas Insulated Switchgear Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Outdoor Gas Insulated Switchgear Consumption Comparison

4.3.1 United States VS China: Outdoor Gas Insulated Switchgear Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Outdoor Gas Insulated Switchgear Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Outdoor Gas Insulated Switchgear Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Outdoor Gas Insulated Switchgear Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Outdoor Gas Insulated Switchgear Production Value (2021-2026)

4.4.3 United States Based Manufacturers Outdoor Gas Insulated Switchgear Production (2021-2026)

4.5 China Based Outdoor Gas Insulated Switchgear Manufacturers and Market Share

4.5.1 China Based Outdoor Gas Insulated Switchgear Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Outdoor Gas Insulated Switchgear Production Value (2021-2026)

4.5.3 China Based Manufacturers Outdoor Gas Insulated Switchgear Production (2021-2026)

4.6 Rest of World Based Outdoor Gas Insulated Switchgear Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Outdoor Gas Insulated Switchgear Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Outdoor Gas Insulated Switchgear Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Outdoor Gas Insulated Switchgear Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Outdoor Gas Insulated Switchgear Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 ?24 kV

5.2.2 24–40.5 kV

5.2.3 40.5–145 kV

5.2.4 145–245 kV

5.2.5 245–420 kV

5.2.6 >420–800 kV

5.2.7 ?800 kV

5.3 Market Segment by Type

5.3.1 World Outdoor Gas Insulated Switchgear Production by Type (2021-2032)

5.3.2 World Outdoor Gas Insulated Switchgear Production Value by Type (2021-2032)

5.3.3 World Outdoor Gas Insulated Switchgear Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY INSULATING MEDIUM

6.1 World Outdoor Gas Insulated Switchgear Market Size Overview by Insulating Medium: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Insulating Medium

6.2.1 SF?-insulated

6.2.2 Air-insulated

6.2.3 Others

6.3 Market Segment by Insulating Medium

6.3.1 World Outdoor Gas Insulated Switchgear Production by Insulating Medium (2021-2032)

6.3.2 World Outdoor Gas Insulated Switchgear Production Value by Insulating Medium (2021-2032)

6.3.3 World Outdoor Gas Insulated Switchgear Average Price by Insulating Medium (2021-2032)

7 MARKET ANALYSIS BY ENVIRONMENTAL RATING

7.1 World Outdoor Gas Insulated Switchgear Market Size Overview by Environmental Rating: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Environmental Rating

7.2.1 Standard Outdoor Type

7.2.2 High-Cold Type

7.2.3 High-Altitude Type

7.2.4 High-Pollution Type

7.2.5 Others

7.3 Market Segment by Environmental Rating

7.3.1 World Outdoor Gas Insulated Switchgear Production by Environmental Rating (2021-2032)

7.3.2 World Outdoor Gas Insulated Switchgear Production Value by Environmental Rating (2021-2032)

7.3.3 World Outdoor Gas Insulated Switchgear Average Price by Environmental Rating (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Outdoor Gas Insulated Switchgear Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Power Transmission and Distribution

8.2.2 Wind Power

8.2.3 Photovoltaics and Energy Storage

8.2.4 Thermal, Hydro, and Nuclear Power

8.2.5 Transportation Infrastructure

8.2.6 Others

8.3 Market Segment by Application

8.3.1 World Outdoor Gas Insulated Switchgear Production by Application (2021-2032)

8.3.2 World Outdoor Gas Insulated Switchgear Production Value by Application (2021-2032)

8.3.3 World Outdoor Gas Insulated Switchgear Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 ABB

9.1.1 ABB Details

9.1.2 ABB Major Business

9.1.3 ABB Outdoor Gas Insulated Switchgear Product and Services

9.1.4 ABB Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 ABB Recent Developments/Updates

9.1.6 ABB Competitive Strengths & Weaknesses

9.2 Siemens Energy

9.2.1 Siemens Energy Details

9.2.2 Siemens Energy Major Business

9.2.3 Siemens Energy Outdoor Gas Insulated Switchgear Product and Services

9.2.4 Siemens Energy Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Siemens Energy Recent Developments/Updates

9.2.6 Siemens Energy Competitive Strengths & Weaknesses

9.3 GE Vernova

9.3.1 GE Vernova Details

9.3.2 GE Vernova Major Business

9.3.3 GE Vernova Outdoor Gas Insulated Switchgear Product and Services

9.3.4 GE Vernova Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 GE Vernova Recent Developments/Updates

9.3.6 GE Vernova Competitive Strengths & Weaknesses

9.4 Hitachi Energy

9.4.1 Hitachi Energy Details

9.4.2 Hitachi Energy Major Business

9.4.3 Hitachi Energy Outdoor Gas Insulated Switchgear Product and Services

9.4.4 Hitachi Energy Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Hitachi Energy Recent Developments/Updates

9.4.6 Hitachi Energy Competitive Strengths & Weaknesses

9.5 Eaton

9.5.1 Eaton Details

9.5.2 Eaton Major Business

9.5.3 Eaton Outdoor Gas Insulated Switchgear Product and Services

9.5.4 Eaton Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Eaton Recent Developments/Updates

9.5.6 Eaton Competitive Strengths & Weaknesses

9.6 Schneider Electric

9.6.1 Schneider Electric Details

9.6.2 Schneider Electric Major Business

9.6.3 Schneider Electric Outdoor Gas Insulated Switchgear Product and Services

9.6.4 Schneider Electric Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Schneider Electric Recent Developments/Updates

9.6.6 Schneider Electric Competitive Strengths & Weaknesses

9.7 Mitsubishi Electric

9.7.1 Mitsubishi Electric Details

9.7.2 Mitsubishi Electric Major Business

9.7.3 Mitsubishi Electric Outdoor Gas Insulated Switchgear Product and Services

9.7.4 Mitsubishi Electric Outdoor Gas Insulated Switchgear Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.7.5 Mitsubishi Electric Recent Developments/Updates

9.7.6 Mitsubishi Electric Competitive Strengths & Weaknesses

9.8 Toshiba

9.8.1 Toshiba Details

9.8.2 Toshiba Major Business

9.8.3 Toshiba Outdoor Gas Insulated Switchgear Product and Services

9.8.4 Toshiba Outdoor Gas Insulated Switchgear Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.8.5 Toshiba Recent Developments/Updates

9.8.6 Toshiba Competitive Strengths & Weaknesses

9.9 Fuji Electric

9.9.1 Fuji Electric Details

9.9.2 Fuji Electric Major Business

9.9.3 Fuji Electric Outdoor Gas Insulated Switchgear Product and Services

9.9.4 Fuji Electric Outdoor Gas Insulated Switchgear Production, Price, Value, Gross

Margin and Market Share (2021-2026)

9.9.5 Fuji Electric Recent Developments/Updates

9.9.6 Fuji Electric Competitive Strengths & Weaknesses

9.10 Nissin Electric

9.10.1 Nissin Electric Details

9.10.2 Nissin Electric Major Business

9.10.3 Nissin Electric Outdoor Gas Insulated Switchgear Product and Services

9.10.4 Nissin Electric Outdoor Gas Insulated Switchgear Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.10.5 Nissin Electric Recent Developments/Updates

9.10.6 Nissin Electric Competitive Strengths & Weaknesses

9.11 LS ELECTRIC

9.11.1 LS ELECTRIC Details

9.11.2 LS ELECTRIC Major Business

9.11.3 LS ELECTRIC Outdoor Gas Insulated Switchgear Product and Services

9.11.4 LS ELECTRIC Outdoor Gas Insulated Switchgear Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.11.5 LS ELECTRIC Recent Developments/Updates

9.11.6 LS ELECTRIC Competitive Strengths & Weaknesses

9.12 Hyosung Heavy Industries

9.12.1 Hyosung Heavy Industries Details

9.12.2 Hyosung Heavy Industries Major Business

9.12.3 Hyosung Heavy Industries Outdoor Gas Insulated Switchgear Product and

Services

9.12.4 Hyosung Heavy Industries Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Hyosung Heavy Industries Recent Developments/Updates

9.12.6 Hyosung Heavy Industries Competitive Strengths & Weaknesses

9.13 Ormazabal

9.13.1 Ormazabal Details

9.13.2 Ormazabal Major Business

9.13.3 Ormazabal Outdoor Gas Insulated Switchgear Product and Services

9.13.4 Ormazabal Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Ormazabal Recent Developments/Updates

9.13.6 Ormazabal Competitive Strengths & Weaknesses

9.14 Lucy Electric

9.14.1 Lucy Electric Details

9.14.2 Lucy Electric Major Business

9.14.3 Lucy Electric Outdoor Gas Insulated Switchgear Product and Services

9.14.4 Lucy Electric Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Lucy Electric Recent Developments/Updates

9.14.6 Lucy Electric Competitive Strengths & Weaknesses

9.15 CG Power and Industrial Solutions

9.15.1 CG Power and Industrial Solutions Details

9.15.2 CG Power and Industrial Solutions Major Business

9.15.3 CG Power and Industrial Solutions Outdoor Gas Insulated Switchgear Product and Services

9.15.4 CG Power and Industrial Solutions Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 CG Power and Industrial Solutions Recent Developments/Updates

9.15.6 CG Power and Industrial Solutions Competitive Strengths & Weaknesses

9.16 CHINT

9.16.1 CHINT Details

9.16.2 CHINT Major Business

9.16.3 CHINT Outdoor Gas Insulated Switchgear Product and Services

9.16.4 CHINT Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 CHINT Recent Developments/Updates

9.16.6 CHINT Competitive Strengths & Weaknesses

9.17 China XD

- 9.17.1 China XD Details
- 9.17.2 China XD Major Business
- 9.17.3 China XD Outdoor Gas Insulated Switchgear Product and Services
- 9.17.4 China XD Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.17.5 China XD Recent Developments/Updates
- 9.17.6 China XD Competitive Strengths & Weaknesses
- 9.18 Pinggao Electric
 - 9.18.1 Pinggao Electric Details
 - 9.18.2 Pinggao Electric Major Business
 - 9.18.3 Pinggao Electric Outdoor Gas Insulated Switchgear Product and Services
 - 9.18.4 Pinggao Electric Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Pinggao Electric Recent Developments/Updates
 - 9.18.6 Pinggao Electric Competitive Strengths & Weaknesses
- 9.19 Shandong Taikai
 - 9.19.1 Shandong Taikai Details
 - 9.19.2 Shandong Taikai Major Business
 - 9.19.3 Shandong Taikai Outdoor Gas Insulated Switchgear Product and Services
 - 9.19.4 Shandong Taikai Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.19.5 Shandong Taikai Recent Developments/Updates
 - 9.19.6 Shandong Taikai Competitive Strengths & Weaknesses
- 9.20 Sieyuan Electric
 - 9.20.1 Sieyuan Electric Details
 - 9.20.2 Sieyuan Electric Major Business
 - 9.20.3 Sieyuan Electric Outdoor Gas Insulated Switchgear Product and Services
 - 9.20.4 Sieyuan Electric Outdoor Gas Insulated Switchgear Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.20.5 Sieyuan Electric Recent Developments/Updates
 - 9.20.6 Sieyuan Electric Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Outdoor Gas Insulated Switchgear Industry Chain
- 10.2 Outdoor Gas Insulated Switchgear Upstream Analysis
 - 10.2.1 Outdoor Gas Insulated Switchgear Core Raw Materials
 - 10.2.2 Main Manufacturers of Outdoor Gas Insulated Switchgear Core Raw Materials
- 10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Outdoor Gas Insulated Switchgear Production Mode

10.6 Outdoor Gas Insulated Switchgear Procurement Model

10.7 Outdoor Gas Insulated Switchgear Industry Sales Model and Sales Channels

10.7.1 Outdoor Gas Insulated Switchgear Sales Model

10.7.2 Outdoor Gas Insulated Switchgear Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Outdoor Gas Insulated Switchgear Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Outdoor Gas Insulated Switchgear Production Value by Region (2021-2026) & (USD Million)

Table 3. World Outdoor Gas Insulated Switchgear Production Value by Region (2027-2032) & (USD Million)

Table 4. World Outdoor Gas Insulated Switchgear Production Value Market Share by Region (2021-2026)

Table 5. World Outdoor Gas Insulated Switchgear Production Value Market Share by Region (2027-2032)

Table 6. World Outdoor Gas Insulated Switchgear Production by Region (2021-2026) & (Units)

Table 7. World Outdoor Gas Insulated Switchgear Production by Region (2027-2032) & (Units)

Table 8. World Outdoor Gas Insulated Switchgear Production Market Share by Region (2021-2026)

Table 9. World Outdoor Gas Insulated Switchgear Production Market Share by Region (2027-2032)

Table 10. World Outdoor Gas Insulated Switchgear Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Outdoor Gas Insulated Switchgear Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Outdoor Gas Insulated Switchgear Major Market Trends

Table 13. World Outdoor Gas Insulated Switchgear Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Outdoor Gas Insulated Switchgear Consumption by Region (2021-2026) & (Units)

Table 15. World Outdoor Gas Insulated Switchgear Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Outdoor Gas Insulated Switchgear Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Outdoor Gas Insulated Switchgear Producers in 2025

Table 18. World Outdoor Gas Insulated Switchgear Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Outdoor Gas Insulated Switchgear Producers in 2025

Table 20. World Outdoor Gas Insulated Switchgear Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Outdoor Gas Insulated Switchgear Company Evaluation Quadrant

Table 22. World Outdoor Gas Insulated Switchgear Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Outdoor Gas Insulated Switchgear Production Site of Key Manufacturer

Table 24. Outdoor Gas Insulated Switchgear Market: Company Product Type Footprint

Table 25. Outdoor Gas Insulated Switchgear Market: Company Product Application Footprint

Table 26. Outdoor Gas Insulated Switchgear Competitive Factors

Table 27. Outdoor Gas Insulated Switchgear New Entrant and Capacity Expansion Plans

Table 28. Outdoor Gas Insulated Switchgear Mergers & Acquisitions Activity

Table 29. United States VS China Outdoor Gas Insulated Switchgear Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Outdoor Gas Insulated Switchgear Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Outdoor Gas Insulated Switchgear Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Outdoor Gas Insulated Switchgear Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Outdoor Gas Insulated Switchgear Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Outdoor Gas Insulated Switchgear Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Outdoor Gas Insulated Switchgear Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Outdoor Gas Insulated Switchgear Production Market Share (2021-2026)

Table 37. China Based Outdoor Gas Insulated Switchgear Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Outdoor Gas Insulated Switchgear Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Outdoor Gas Insulated Switchgear Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Outdoor Gas Insulated Switchgear Production,

(2021-2026) & (Units)

Table 41. China Based Manufacturers Outdoor Gas Insulated Switchgear Production Market Share (2021-2026)

Table 42. Rest of World Based Outdoor Gas Insulated Switchgear Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Outdoor Gas Insulated Switchgear Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Outdoor Gas Insulated Switchgear Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Outdoor Gas Insulated Switchgear Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Outdoor Gas Insulated Switchgear Production Market Share (2021-2026)

Table 47. World Outdoor Gas Insulated Switchgear Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Outdoor Gas Insulated Switchgear Production by Type (2021-2026) & (Units)

Table 49. World Outdoor Gas Insulated Switchgear Production by Type (2027-2032) & (Units)

Table 50. World Outdoor Gas Insulated Switchgear Production Value by Type (2021-2026) & (USD Million)

Table 51. World Outdoor Gas Insulated Switchgear Production Value by Type (2027-2032) & (USD Million)

Table 52. World Outdoor Gas Insulated Switchgear Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Outdoor Gas Insulated Switchgear Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Outdoor Gas Insulated Switchgear Production Value by Insulating Medium, (USD Million), 2021 & 2025 & 2032

Table 55. World Outdoor Gas Insulated Switchgear Production by Insulating Medium (2021-2026) & (Units)

Table 56. World Outdoor Gas Insulated Switchgear Production by Insulating Medium (2027-2032) & (Units)

Table 57. World Outdoor Gas Insulated Switchgear Production Value by Insulating Medium (2021-2026) & (USD Million)

Table 58. World Outdoor Gas Insulated Switchgear Production Value by Insulating Medium (2027-2032) & (USD Million)

Table 59. World Outdoor Gas Insulated Switchgear Average Price by Insulating Medium (2021-2026) & (US\$/Unit)

Table 60. World Outdoor Gas Insulated Switchgear Average Price by Insulating Medium (2027-2032) & (US\$/Unit)

Table 61. World Outdoor Gas Insulated Switchgear Production Value by Environmental Rating, (USD Million), 2021 & 2025 & 2032

Table 62. World Outdoor Gas Insulated Switchgear Production by Environmental Rating (2021-2026) & (Units)

Table 63. World Outdoor Gas Insulated Switchgear Production by Environmental Rating (2027-2032) & (Units)

Table 64. World Outdoor Gas Insulated Switchgear Production Value by Environmental Rating (2021-2026) & (USD Million)

Table 65. World Outdoor Gas Insulated Switchgear Production Value by Environmental Rating (2027-2032) & (USD Million)

Table 66. World Outdoor Gas Insulated Switchgear Average Price by Environmental Rating (2021-2026) & (US\$/Unit)

Table 67. World Outdoor Gas Insulated Switchgear Average Price by Environmental Rating (2027-2032) & (US\$/Unit)

Table 68. World Outdoor Gas Insulated Switchgear Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Outdoor Gas Insulated Switchgear Production by Application (2021-2026) & (Units)

Table 70. World Outdoor Gas Insulated Switchgear Production by Application (2027-2032) & (Units)

Table 71. World Outdoor Gas Insulated Switchgear Production Value by Application (2021-2026) & (USD Million)

Table 72. World Outdoor Gas Insulated Switchgear Production Value by Application (2027-2032) & (USD Million)

Table 73. World Outdoor Gas Insulated Switchgear Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Outdoor Gas Insulated Switchgear Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. ABB Basic Information, Manufacturing Base and Competitors

Table 76. ABB Major Business

Table 77. ABB Outdoor Gas Insulated Switchgear Product and Services

Table 78. ABB Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. ABB Recent Developments/Updates

Table 80. ABB Competitive Strengths & Weaknesses

Table 81. Siemens Energy Basic Information, Manufacturing Base and Competitors

Table 82. Siemens Energy Major Business

Table 83. Siemens Energy Outdoor Gas Insulated Switchgear Product and Services

Table 84. Siemens Energy Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Siemens Energy Recent Developments/Updates

Table 86. Siemens Energy Competitive Strengths & Weaknesses

Table 87. GE Vernova Basic Information, Manufacturing Base and Competitors

Table 88. GE Vernova Major Business

Table 89. GE Vernova Outdoor Gas Insulated Switchgear Product and Services

Table 90. GE Vernova Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. GE Vernova Recent Developments/Updates

Table 92. GE Vernova Competitive Strengths & Weaknesses

Table 93. Hitachi Energy Basic Information, Manufacturing Base and Competitors

Table 94. Hitachi Energy Major Business

Table 95. Hitachi Energy Outdoor Gas Insulated Switchgear Product and Services

Table 96. Hitachi Energy Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Hitachi Energy Recent Developments/Updates

Table 98. Hitachi Energy Competitive Strengths & Weaknesses

Table 99. Eaton Basic Information, Manufacturing Base and Competitors

Table 100. Eaton Major Business

Table 101. Eaton Outdoor Gas Insulated Switchgear Product and Services

Table 102. Eaton Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Eaton Recent Developments/Updates

Table 104. Eaton Competitive Strengths & Weaknesses

Table 105. Schneider Electric Basic Information, Manufacturing Base and Competitors

Table 106. Schneider Electric Major Business

Table 107. Schneider Electric Outdoor Gas Insulated Switchgear Product and Services

Table 108. Schneider Electric Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Schneider Electric Recent Developments/Updates

Table 110. Schneider Electric Competitive Strengths & Weaknesses

Table 111. Mitsubishi Electric Basic Information, Manufacturing Base and Competitors

Table 112. Mitsubishi Electric Major Business

Table 113. Mitsubishi Electric Outdoor Gas Insulated Switchgear Product and Services

Table 114. Mitsubishi Electric Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Mitsubishi Electric Recent Developments/Updates

Table 116. Mitsubishi Electric Competitive Strengths & Weaknesses

Table 117. Toshiba Basic Information, Manufacturing Base and Competitors

Table 118. Toshiba Major Business

Table 119. Toshiba Outdoor Gas Insulated Switchgear Product and Services

Table 120. Toshiba Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Toshiba Recent Developments/Updates

Table 122. Toshiba Competitive Strengths & Weaknesses

Table 123. Fuji Electric Basic Information, Manufacturing Base and Competitors

Table 124. Fuji Electric Major Business

Table 125. Fuji Electric Outdoor Gas Insulated Switchgear Product and Services

Table 126. Fuji Electric Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Fuji Electric Recent Developments/Updates

Table 128. Fuji Electric Competitive Strengths & Weaknesses

Table 129. Nissin Electric Basic Information, Manufacturing Base and Competitors

Table 130. Nissin Electric Major Business

Table 131. Nissin Electric Outdoor Gas Insulated Switchgear Product and Services

Table 132. Nissin Electric Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Nissin Electric Recent Developments/Updates

Table 134. Nissin Electric Competitive Strengths & Weaknesses

Table 135. LS ELECTRIC Basic Information, Manufacturing Base and Competitors

Table 136. LS ELECTRIC Major Business

Table 137. LS ELECTRIC Outdoor Gas Insulated Switchgear Product and Services

Table 138. LS ELECTRIC Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. LS ELECTRIC Recent Developments/Updates

Table 140. LS ELECTRIC Competitive Strengths & Weaknesses

Table 141. Hyosung Heavy Industries Basic Information, Manufacturing Base and Competitors

Table 142. Hyosung Heavy Industries Major Business

Table 143. Hyosung Heavy Industries Outdoor Gas Insulated Switchgear Product and Services

Table 144. Hyosung Heavy Industries Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Hyosung Heavy Industries Recent Developments/Updates

Table 146. Hyosung Heavy Industries Competitive Strengths & Weaknesses

Table 147. Ormazabal Basic Information, Manufacturing Base and Competitors

Table 148. Ormazabal Major Business

Table 149. Ormazabal Outdoor Gas Insulated Switchgear Product and Services

Table 150. Ormazabal Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Ormazabal Recent Developments/Updates

Table 152. Ormazabal Competitive Strengths & Weaknesses

Table 153. Lucy Electric Basic Information, Manufacturing Base and Competitors

Table 154. Lucy Electric Major Business

Table 155. Lucy Electric Outdoor Gas Insulated Switchgear Product and Services

Table 156. Lucy Electric Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Lucy Electric Recent Developments/Updates

Table 158. Lucy Electric Competitive Strengths & Weaknesses

Table 159. CG Power and Industrial Solutions Basic Information, Manufacturing Base and Competitors

Table 160. CG Power and Industrial Solutions Major Business

Table 161. CG Power and Industrial Solutions Outdoor Gas Insulated Switchgear Product and Services

Table 162. CG Power and Industrial Solutions Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. CG Power and Industrial Solutions Recent Developments/Updates

Table 164. CG Power and Industrial Solutions Competitive Strengths & Weaknesses

Table 165. CHINT Basic Information, Manufacturing Base and Competitors

Table 166. CHINT Major Business

Table 167. CHINT Outdoor Gas Insulated Switchgear Product and Services

Table 168. CHINT Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. CHINT Recent Developments/Updates

Table 170. CHINT Competitive Strengths & Weaknesses

Table 171. China XD Basic Information, Manufacturing Base and Competitors

Table 172. China XD Major Business

Table 173. China XD Outdoor Gas Insulated Switchgear Product and Services

Table 174. China XD Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. China XD Recent Developments/Updates

Table 176. China XD Competitive Strengths & Weaknesses

Table 177. Pinggao Electric Basic Information, Manufacturing Base and Competitors

Table 178. Pinggao Electric Major Business

Table 179. Pinggao Electric Outdoor Gas Insulated Switchgear Product and Services

Table 180. Pinggao Electric Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Pinggao Electric Recent Developments/Updates

Table 182. Pinggao Electric Competitive Strengths & Weaknesses

Table 183. Shandong Taikai Basic Information, Manufacturing Base and Competitors

Table 184. Shandong Taikai Major Business

Table 185. Shandong Taikai Outdoor Gas Insulated Switchgear Product and Services

Table 186. Shandong Taikai Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Shandong Taikai Recent Developments/Updates

Table 188. Shandong Taikai Competitive Strengths & Weaknesses

Table 189. Sieyuan Electric Basic Information, Manufacturing Base and Competitors

Table 190. Sieyuan Electric Major Business

Table 191. Sieyuan Electric Outdoor Gas Insulated Switchgear Product and Services

Table 192. Sieyuan Electric Outdoor Gas Insulated Switchgear Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. Sieyuan Electric Recent Developments/Updates

Table 194. Sieyuan Electric Competitive Strengths & Weaknesses

Table 195. Global Key Players of Outdoor Gas Insulated Switchgear Upstream (Raw Materials)

Table 196. Global Outdoor Gas Insulated Switchgear Typical Customers

Table 197. Outdoor Gas Insulated Switchgear Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Outdoor Gas Insulated Switchgear Picture

Figure 2. World Outdoor Gas Insulated Switchgear Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Outdoor Gas Insulated Switchgear Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Outdoor Gas Insulated Switchgear Production (2021-2032) & (Units)

Figure 5. World Outdoor Gas Insulated Switchgear Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Outdoor Gas Insulated Switchgear Production Value Market Share by Region (2021-2032)

Figure 7. World Outdoor Gas Insulated Switchgear Production Market Share by Region (2021-2032)

Figure 8. North America Outdoor Gas Insulated Switchgear Production (2021-2032) & (Units)

Figure 9. Europe Outdoor Gas Insulated Switchgear Production (2021-2032) & (Units)

Figure 10. China Outdoor Gas Insulated Switchgear Production (2021-2032) & (Units)

Figure 11. Japan Outdoor Gas Insulated Switchgear Production (2021-2032) & (Units)

Figure 12. India Outdoor Gas Insulated Switchgear Production (2021-2032) & (Units)

Figure 13. Outdoor Gas Insulated Switchgear Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Outdoor Gas Insulated Switchgear Consumption (2021-2032) & (Units)

Figure 16. World Outdoor Gas Insulated Switchgear Consumption Market Share by Region (2021-2032)

Figure 17. United States Outdoor Gas Insulated Switchgear Consumption (2021-2032) & (Units)

Figure 18. China Outdoor Gas Insulated Switchgear Consumption (2021-2032) & (Units)

Figure 19. Europe Outdoor Gas Insulated Switchgear Consumption (2021-2032) & (Units)

Figure 20. Japan Outdoor Gas Insulated Switchgear Consumption (2021-2032) & (Units)

Figure 21. South Korea Outdoor Gas Insulated Switchgear Consumption (2021-2032) & (Units)

Figure 22. ASEAN Outdoor Gas Insulated Switchgear Consumption (2021-2032) &

(Units)

Figure 23. India Outdoor Gas Insulated Switchgear Consumption (2021-2032) & (Units)

Figure 24. Producer Shipments of Outdoor Gas Insulated Switchgear by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Outdoor Gas Insulated Switchgear Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Outdoor Gas Insulated Switchgear Markets in 2025

Figure 27. United States VS China: Outdoor Gas Insulated Switchgear Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Outdoor Gas Insulated Switchgear Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Outdoor Gas Insulated Switchgear Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Outdoor Gas Insulated Switchgear Production Market Share 2025

Figure 31. China Based Manufacturers Outdoor Gas Insulated Switchgear Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Outdoor Gas Insulated Switchgear Production Market Share 2025

Figure 33. World Outdoor Gas Insulated Switchgear Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Outdoor Gas Insulated Switchgear Production Value Market Share by Type in 2025

Figure 35. ?24 kV

Figure 36. 24–40.5 kV

Figure 37. 40.5–145 kV

Figure 38. 145–245 kV

Figure 39. 245–420 kV

Figure 40. >420–800 kV

Figure 41. ?800 kV

Figure 42. ?800 kV

Figure 43. World Outdoor Gas Insulated Switchgear Production Market Share by Type (2021-2032)

Figure 44. World Outdoor Gas Insulated Switchgear Production Value Market Share by Type (2021-2032)

Figure 45. World Outdoor Gas Insulated Switchgear Average Price by Type (2021-2032) & (US\$/Unit)

Figure 46. World Outdoor Gas Insulated Switchgear Production Value by Insulating

Medium, (USD Million), 2021 & 2025 & 2032

Figure 47. World Outdoor Gas Insulated Switchgear Production Value Market Share by Insulating Medium in 2025

Figure 48. SF₆-insulated

Figure 49. Air-insulated

Figure 50. Others

Figure 51. World Outdoor Gas Insulated Switchgear Production Market Share by Insulating Medium (2021-2032)

Figure 52. World Outdoor Gas Insulated Switchgear Production Value Market Share by Insulating Medium (2021-2032)

Figure 53. World Outdoor Gas Insulated Switchgear Average Price by Insulating Medium (2021-2032) & (US\$/Unit)

Figure 54. World Outdoor Gas Insulated Switchgear Production Value by Environmental Rating, (USD Million), 2021 & 2025 & 2032

Figure 55. World Outdoor Gas Insulated Switchgear Production Value Market Share by Environmental Rating in 2025

Figure 56. Standard Outdoor Type

Figure 57. High-Cold Type

Figure 58. High-Altitude Type

Figure 59. High-Pollution Type

Figure 60. Others

Figure 61. World Outdoor Gas Insulated Switchgear Production Market Share by Environmental Rating (2021-2032)

Figure 62. World Outdoor Gas Insulated Switchgear Production Value Market Share by Environmental Rating (2021-2032)

Figure 63. World Outdoor Gas Insulated Switchgear Average Price by Environmental Rating (2021-2032) & (US\$/Unit)

Figure 64. World Outdoor Gas Insulated Switchgear Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 65. World Outdoor Gas Insulated Switchgear Production Value Market Share by Application in 2025

Figure 66. Power Transmission and Distribution

Figure 67. Wind Power

Figure 68. Photovoltaics and Energy Storage

Figure 69. Thermal, Hydro, and Nuclear Power

Figure 70. Transportation Infrastructure

Figure 71. Others

Figure 72. World Outdoor Gas Insulated Switchgear Production Market Share by Application (2021-2032)

Figure 73. World Outdoor Gas Insulated Switchgear Production Value Market Share by Application (2021-2032)

Figure 74. World Outdoor Gas Insulated Switchgear Average Price by Application (2021-2032) & (US\$/Unit)

Figure 75. Outdoor Gas Insulated Switchgear Industry Chain

Figure 76. Outdoor Gas Insulated Switchgear Procurement Model

Figure 77. Outdoor Gas Insulated Switchgear Sales Model

Figure 78. Outdoor Gas Insulated Switchgear Sales Channels, Direct Sales, and Distribution

Figure 79. Methodology

Figure 80. Research Process and Data Source

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