

Global Gas Insulated Switchgear Market Size Study, by Voltage (High Voltage, Medium Voltage, Low Voltage), by Application (Residential and Commercial, Industrial, Utility), by Technology (Hybrid Switchgear, Integrated Three Phase, Compact Gas Insulated Switchgear), and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/G85988DC0F13EN.html>

Date: January 2025

Pages: 285

Price: US\$ 3,750.00 (Single User License)

ID: G85988DC0F13EN

Abstracts

The global gas insulated switchgear market is valued at approximately USD 23.5 billion in 2023 and is expected to grow with a steady compound annual growth rate (CAGR) of 6.1% over the forecast period 2024-2032. Gas insulated switchgear (GIS) serves as a transformative element within the electrical systems domain, offering efficient and reliable solutions for controlling and protecting electrical equipment. Leveraging sulfur hexafluoride (SF₆) gas or its alternatives as an insulating medium, GIS ensures superior performance and longevity compared to traditional air-insulated systems. This advanced technology encompasses several key components, including enclosures, insulating gases, switching devices, busbars, and connectors, which collectively bolster its reliability and compact design.

The exponential rise in global electricity demand, fueled by rapid industrialization, urbanization, and infrastructural electrification, underscores the necessity for advanced solutions like GIS. The market has gained traction due to its application in high-voltage substations, where its compact design and capability to integrate renewable energy sources into main power grids make it indispensable. GIS's operational efficiency, enhanced safety measures, and space-saving attributes further contribute to its widespread adoption across various applications, including utility, residential, and industrial sectors.

Nevertheless, the market faces challenges such as high upfront and maintenance costs associated with GIS production and installation. Additionally, environmental concerns regarding SF6 gas—a potent greenhouse gas—pose regulatory challenges. While alternatives like fluoronitrile and fluoroketone gases are under development, their limited compatibility with existing systems restricts immediate large-scale implementation. However, ongoing R&D initiatives focused on sustainable and SF6-free GIS solutions present significant growth opportunities for the industry.

Regionally, Asia-Pacific dominates the gas insulated switchgear market with a 44% share in 2022, driven by rapid urbanization and industrial growth in economies like China and India. North America and Europe also hold significant shares, benefiting from established infrastructure and growing adoption of renewable energy sources. These regional dynamics are further bolstered by substantial investments in technology and infrastructure.

Major market players included in this report are:

Mitsubishi Electric Corporation

Siemens AG

ABB Ltd.

Hitachi Energy

Schneider Electric

Hyundai Heavy Industries Co. Ltd.

Bharat Heavy Electricals Limited

Toshiba Corporation

State Grid Corporation of China

Eaton Corporation plc

General Electric

Meidensha Corporation

Fuji Electric Co. Ltd.

Nissan Electric Co. Ltd.

Crompton Greaves Limited

The detailed segments and sub-segments of the market are explained below:

By Voltage:

High Voltage

Medium Voltage

Low Voltage

By Application:

Residential and Commercial

Industrial

Utility

By Technology:

Hybrid Switchgear

Integrated Three Phase

Compact Gas Insulated Switchgear

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia-Pacific

China

India

Japan

South Korea

Australia

Rest of Asia Pacific

LAMEA

Brazil

Mexico

Rest of LAMEA

Years considered for the study are as follows:

Historical year: 2022

Base year: 2023

Forecast period: 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with country-level insights.

Competitive landscape profiling major players in the market.

Analysis of key business strategies and recommendations for future market approaches.

Contents

CHAPTER 1. GLOBAL GAS INSULATED SWITCHGEAR MARKET EXECUTIVE SUMMARY

- 1.1. Global Gas Insulated Switchgear Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
 - 1.3.1. By Voltage
 - 1.3.2. By Application
 - 1.3.3. By Technology
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

CHAPTER 2. GLOBAL GAS INSULATED SWITCHGEAR MARKET DEFINITION AND RESEARCH ASSUMPTIONS

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
 - 2.3.1. Inclusion & Exclusion
 - 2.3.2. Limitations
 - 2.3.3. Supply Side Analysis
 - 2.3.3.1. Availability
 - 2.3.3.2. Infrastructure
 - 2.3.3.3. Regulatory Environment
 - 2.3.3.4. Market Competition
 - 2.3.3.5. Economic Viability (Consumer's Perspective)
 - 2.3.4. Demand Side Analysis
 - 2.3.4.1. Regulatory Frameworks
 - 2.3.4.2. Technological Advancements
 - 2.3.4.3. Environmental Considerations
 - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

CHAPTER 3. GLOBAL GAS INSULATED SWITCHGEAR MARKET DYNAMICS

Global Gas Insulated Switchgear Market Size Study, by Voltage (High Voltage, Medium Voltage, Low Voltage), by...

3.1. Market Drivers

- 3.1.1. Rising Electricity Demand Driven by Urbanization
- 3.1.2. Adoption of Compact and Space-saving Electrical Solutions
- 3.1.3. Integration of Renewable Energy Sources to Power Grids

3.2. Market Challenges

- 3.2.1. High Initial and Maintenance Costs
- 3.2.2. Environmental Concerns over SF6 Gas Usage

3.3. Market Opportunities

- 3.3.1. Development of SF6-free GIS Technologies
- 3.3.2. Ongoing R&D Activities Enhancing GIS Sustainability

CHAPTER 4. GLOBAL GAS INSULATED SWITCHGEAR MARKET, BY VOLTAGE

4.1. Segment Dashboard

4.2. Global Gas Insulated Switchgear Market: Voltage Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 4.2.1. High Voltage
- 4.2.2. Medium Voltage
- 4.2.3. Low Voltage

CHAPTER 5. GLOBAL GAS INSULATED SWITCHGEAR MARKET, BY APPLICATION

5.1. Segment Dashboard

5.2. Global Gas Insulated Switchgear Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 5.2.1. Residential and Commercial
- 5.2.2. Industrial
- 5.2.3. Utility

CHAPTER 6. GLOBAL GAS INSULATED SWITCHGEAR MARKET, BY TECHNOLOGY

6.1. Segment Dashboard

6.2. Global Gas Insulated Switchgear Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 6.2.1. Hybrid Switchgear
- 6.2.2. Integrated Three Phase

6.2.3. Compact Gas Insulated Switchgear

CHAPTER 7. GLOBAL GAS INSULATED SWITCHGEAR MARKET, BY REGION

7.1. North America

7.1.1. U.S.

7.1.2. Canada

7.2. Europe

7.2.1. UK

7.2.2. Germany

7.2.3. France

7.2.4. Italy

7.2.5. Spain

7.2.6. Rest of Europe

7.3. Asia-Pacific

7.3.1. China

7.3.2. India

7.3.3. Japan

7.3.4. South Korea

7.3.5. Australia

7.3.6. Rest of Asia-Pacific

7.4. LAMEA

7.4.1. Brazil

7.4.2. Mexico

7.4.3. Rest of LAMEA

CHAPTER 8. COMPETITIVE INTELLIGENCE

8.1. Key Company SWOT Analysis

8.1.1. Mitsubishi Electric Corporation

8.1.2. Siemens AG

8.1.3. ABB Ltd.

8.2. Top Market Strategies

8.3. Company Profiles

CHAPTER 9. RESEARCH PROCESS

9.1. Research Process

9.1.1. Data Mining

- 9.1.2. Analysis
- 9.1.3. Market Estimation
- 9.1.4. Validation
- 9.1.5. Publishing
- 9.2. Research Attributes

12. LIST OF TABLES

- 1. GLOBAL GAS INSULATED SWITCHGEAR MARKET, REPORT SCOPE**
- 2. GLOBAL GAS INSULATED SWITCHGEAR MARKET ESTIMATES & FORECASTS BY REGION 2022-2032 (USD BILLION)**
- 3. GLOBAL GAS INSULATED SWITCHGEAR MARKET ESTIMATES & FORECASTS BY VOLTAGE 2022-2032 (USD BILLION)**
- 4. GLOBAL GAS INSULATED SWITCHGEAR MARKET ESTIMATES & FORECASTS BY APPLICATION 2022-2032 (USD BILLION)**
- 5. GLOBAL GAS INSULATED SWITCHGEAR MARKET ESTIMATES & FORECASTS BY TECHNOLOGY 2022-2032 (USD BILLION)**
- 6. GLOBAL GAS INSULATED SWITCHGEAR MARKET BY SEGMENT, ESTIMATES & FORECASTS, 2022-2032 (USD BILLION)**
- 7. GLOBAL GAS INSULATED SWITCHGEAR MARKET BY REGION, ESTIMATES & FORECASTS, 2022-2032 (USD BILLION)**
- 8. NORTH AMERICA GAS INSULATED SWITCHGEAR MARKET, ESTIMATES & FORECASTS, 2022-2032 (USD BILLION)**
- 9. EUROPE GAS INSULATED SWITCHGEAR MARKET, ESTIMATES & FORECASTS, 2022-2032 (USD BILLION)**
- 10. ASIA-PACIFIC GAS INSULATED SWITCHGEAR MARKET, ESTIMATES & FORECASTS, 2022-2032 (USD BILLION)**
- 11. LAMEA GAS INSULATED SWITCHGEAR MARKET, ESTIMATES & FORECASTS, 2022-2032 (USD BILLION)**

12. U.S. GAS INSULATED SWITCHGEAR MARKET, ESTIMATES & FORECASTS BY VOLTAGE 2022-2032 (USD BILLION)**13. GERMANY GAS INSULATED SWITCHGEAR MARKET, ESTIMATES & FORECASTS BY APPLICATION 2022-2032 (USD BILLION)****14. CHINA GAS INSULATED SWITCHGEAR MARKET, ESTIMATES & FORECASTS BY TECHNOLOGY 2022-2032 (USD BILLION)****15. KEY PLAYER MARKET SHARE ANALYSIS, 2023**

This list is not complete; the final report does contain more than 100 tables. The list may be updated in the final deliverable.

12. LIST OF FIGURES**1. GLOBAL GAS INSULATED SWITCHGEAR MARKET, RESEARCH METHODOLOGY****2. GLOBAL GAS INSULATED SWITCHGEAR MARKET, MARKET ESTIMATION TECHNIQUES****3. GLOBAL GAS INSULATED SWITCHGEAR MARKET SIZE ESTIMATES & FORECAST METHODS****4. GLOBAL GAS INSULATED SWITCHGEAR MARKET, KEY TRENDS 2023****5. GLOBAL GAS INSULATED SWITCHGEAR MARKET, GROWTH PROSPECTS 2022-2032****6. GLOBAL GAS INSULATED SWITCHGEAR MARKET, PORTER'S 5 FORCE MODEL****7. GLOBAL GAS INSULATED SWITCHGEAR MARKET, PESTEL ANALYSIS****8. GLOBAL GAS INSULATED SWITCHGEAR MARKET, VALUE CHAIN ANALYSIS****9. GLOBAL GAS INSULATED SWITCHGEAR MARKET BY SEGMENT, 2022 & 2032**

Global Gas Insulated Switchgear Market Size Study, by Voltage (High Voltage, Medium Voltage, Low Voltage), by...

(USD BILLION)

10. REGIONAL SNAPSHOT OF GAS INSULATED SWITCHGEAR MARKET 2022 & 2032

**11. NORTH AMERICA GAS INSULATED SWITCHGEAR MARKET 2022 & 2032
(USD BILLION)**

**12. EUROPE GAS INSULATED SWITCHGEAR MARKET 2022 & 2032 (USD
BILLION)**

**13. ASIA-PACIFIC GAS INSULATED SWITCHGEAR MARKET 2022 & 2032 (USD
BILLION)**

14. LAMEA GAS INSULATED SWITCHGEAR MARKET 2022 & 2032 (USD BILLION)

**15. GLOBAL GAS INSULATED SWITCHGEAR MARKET, COMPANY MARKET
SHARE ANALYSIS (2023)**

This list is not complete; the final report does contain more than 50 figures. The list may be updated in the final deliverable.

I would like to order

Product name: Global Gas Insulated Switchgear Market Size Study, by Voltage (High Voltage, Medium Voltage, Low Voltage), by Application (Residential and Commercial, Industrial, Utility), by Technology (Hybrid Switchgear, Integrated Three Phase, Compact Gas Insulated Switchgear), and Regional Forecasts 2022-2032

Product link: <https://marketpublishers.com/r/G85988DC0F13EN.html>

Price: US\$ 3,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G85988DC0F13EN.html>