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Gas Insulated AC Switchgear Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Gas Insulated AC Switchgear Market was valued at USD 22.7 billion in 2024 and is estimated to grow at a CAGR of 7.7% to reach USD 47.9 billion by 2034, driven by the rising trend of urbanization, particularly in emerging economies. Gas Insulated AC Switchgear, known for its smaller footprint compared to traditional air-insulated switchgear, is ideal for densely populated urban areas where space is limited. Additionally, growing investments in the expansion and modernization of grid infrastructure, along with a higher need to refurbish aging electrical networks, contribute to the market's positive outlook. The increase in global energy consumption, driven by population growth, industrialization, and the electrification of rural regions—continues to propel the need for reliable and efficient transmission and distribution systems.

The market faces challenges from tariffs imposed on key raw materials, such as steel, aluminum, and copper, which have led to increased manufacturing costs and supply chain disruptions, particularly in the U.S. Furthermore, there is an increasing focus on environmental regulations to reduce greenhouse gas emissions. As a result, there is a growing push for the development and adoption of SF6-free GIS solutions that offer environmentally friendly alternatives without compromising performance. These trends are driving changes in the market dynamics.

The low voltage segment of the gas insulated AC switchgear market is expected to see significant growth reaching USD 27.2 billion by 2034 driven by the increasing need for compact and efficient power distribution systems in densely populated areas. Low voltage GIS solutions are ideal for residential and commercial buildings, where space-saving designs are crucial. Integrating smart grid technologies further enhances the monitoring and control capabilities of low voltage GIS, driving their demand. Low

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voltage GIS systems offer improved safety features and reliability, reducing the risk of electrical faults in critical environments.

The utility sector remains the dominant market segment, holding a 55.1% market share in 2024 and continuing to grow at a positive CAGR through 2034. As power grids age in developed regions, there is an urgent need to modernize and meet increasing energy demands. GIS solutions play a vital role in upgrading transmission networks and facilitating the delivery of electricity from renewable energy sources to urban centers, supporting the global transition toward clean energy.

United States Gas Insulated AC Switchgear Market reached USD 2.5 billion driven by significant investments in wind and solar energy projects, especially in the U.S. West, as well as rapid urban development, particularly in the southern U.S., which is increasing the need for compact and efficient power distribution systems.

Key players operating in the Global Gas-Insulated AC Switchgear Market include Siemens Energy, Schneider Electric, Mitsubishi Electric Corporation, Toshiba International Corporation, Hitachi Energy, Hyosung Heavy Industries, Fuji Electric, General Electric, ABB, CG Power & Industrial Solutions, Eaton Corporation, Chint Group, HD Hyundai Electric, Lucy Group, and Powell Industries. To strengthen their position in the GIS market, companies are adopting several key strategies. They invest in developing innovative, SF6-free solutions that address environmental concerns while maintaining high performance. Additionally, these companies are expanding their research and development efforts to enhance the efficiency and reliability of GIS systems, particularly in smart grid integration.

Companies Mentioned

ABB, CG Power & Industrial Solutions, Chint Group, Eaton Corporation, Fuji Electric, General Electric, HD HYUNDAI ELECTRIC, Hitachi Energy, Hyosung Heavy Industries, Lucy Group, Mitsubishi Electric Corporation, Powell Industries, Schneider Electric, Siemens Energy, Toshiba International Corporation

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