

# Global SF6 Gas Insulated Transmission Lines (GIL) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global SF6 Gas Insulated Transmission Lines (GIL) market size is expected to reach \$ 1387 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

In 2025, global SF6 Gas Insulated Transmission Lines (GIL) production reached approximately 180 Km, with an average global market price of around 4.5-5.5M USD per Km.

A SF6 Gas Insulated Transmission Lines (GIL) is a high-voltage power transmission conductor enclosed inside a sealed, grounded metal tube and insulated by a pressurized insulating gas (SF<sub>6</sub> or mixed with N<sub>2</sub>). In a typical design, an aluminum (or copper) conductor is centered within the tubular enclosure using solid insulating spacers, creating a coaxial structure that provides high dielectric strength, low losses, and strong shielding from external electromagnetic effects. GIL is used where overhead lines or conventional cables are difficult or undesirable—such as tunnels, urban corridors, river crossings, steep terrain, or substation interconnections—because it offers high transmission capacity, high reliability, and good thermal performance in a compact, mechanically robust form.

The upstream raw materials for SF6 Gas Insulated Transmission Lines (GIL) mainly include copper conductors, steel, aluminum and other shell and structural components, sulfur hexafluoride insulating gas, epoxy resin, polytetrafluoroethylene and other solid insulating materials, as well as sealing materials. Typical raw material suppliers include Baosteel, Jiangxi Copper, Linde, Honeywell, Hexafluo and others. Downstream applications are mainly in urban power transmission, high voltage direct current transmission and grid connection of renewable energy generation.

The single-line capacity of SF6 Gas Insulated Transmission Lines (GIL) varies greatly depending on voltage level, production shifts, and level of process automation, typically ranging from 50 to 100 kilometers. The industry's gross profit margin is higher than that of traditional power transmission equipment, generally ranging from 40% to 60%.

SF6 Gas Insulated Transmission Lines (GIL) is a high-voltage power transmission equipment that uses insulating gas as the medium and a metal pipe as the outer shell. It employs a compact structure with the conductor and shell coaxial, achieving efficient and safe power transmission through its sealed design, earning it the title of a 'super pipeline' in the power transmission field. As a high-end alternative to traditional overhead lines and cables, GIL can flexibly adapt to complex scenarios such as outdoor environments, underground utility tunnels, cross-river and sea crossings, and high-altitude and frigid zones. It covers all voltage levels from high voltage to ultra-high voltage and is a key core piece of equipment connecting energy bases, urban power grids, and industrial load centers in new power systems. In the power generation sector, GIL applications are currently relatively mature, and its future development in pumped storage and nuclear power is expected to continue. However, GIL applications in urban high-capacity power transmission, industrial power, data centers, and energy storage power stations are still in their early stages.

GIL, with its unique advantages of high efficiency, stability, and environmental adaptability, precisely addresses the core pain points in the current power transmission field. Its sealed structure, combined with high-performance insulating gas, possesses both the low-loss and high-capacity characteristics of overhead lines and the small footprint and interference resistance advantages of cables. This perfectly solves the problems of limited space for undergrounding overhead lines in urban core areas and the scarcity of power transmission corridor resources in ecologically sensitive areas. The fully enclosed design effectively resists erosion from harsh environments such as wind, sandstorms, heavy rain, and salt spray, completely changing the current situation where traditional power transmission equipment is prone to failure and has high maintenance costs under extreme conditions. Currently, the construction of new power systems is accelerating globally, the demand for green electricity transmission from new energy bases is surging, coupled with policy drivers for urban underground utility tunnel construction and smart grid upgrades, further supported by breakthroughs in environmentally friendly insulating gas technology and the promotion of domestic substitution, all contributing to a strong and continuous development momentum for the GIL industry.

GIL, as a high-voltage, high-capacity power transmission technology, has been maturely applied in traditional power systems. With the explosion of AI, data centers are developing towards high power, high density, and high reliability. GIL technology, due to its unique advantages, may become a potential solution to the energy transmission bottleneck in data centers. For example, with the increasing use of high-power server racks in data centers, power distribution systems face high load pressure, with backbone transmission currents reaching over 3000A, requiring multi-circuit cables. GIL products can effectively replace the traditional multi-circuit cable layout in data centers, enabling high (medium) and low-voltage power distribution system layouts. The application potential of GIL in data centers and future intelligent computing and supercomputing centers is concentrated in three major scenarios: high-voltage, high-capacity power transmission, high-reliability power distribution, and green energy integration. It has certain application potential in power transmission for petabyte-level supercomputing centers or space-constrained urban data centers. Meanwhile, domestic urban power grid upgrades and new energy transmission projects will constitute core demands, and infrastructure expansion in emerging overseas markets will also open up new growth opportunities. Domestic companies, leveraging technological breakthroughs and accumulated engineering experience, are gradually gaining a dominant position in the global market.

This report studies the global SF6 Gas Insulated Transmission Lines (GIL) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SF6 Gas Insulated Transmission Lines (GIL) 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 SF6 Gas Insulated Transmission Lines (GIL) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global SF6 Gas Insulated Transmission Lines (GIL) total production and demand, 2021-2032, (Km)

Global SF6 Gas Insulated Transmission Lines (GIL) total production value, 2021-2032, (USD Million)

Global SF6 Gas Insulated Transmission Lines (GIL) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Km), (based on production site)

Global SF6 Gas Insulated Transmission Lines (GIL) consumption by region & country, CAGR, 2021-2032 & (Km)

U.S. VS China: SF6 Gas Insulated Transmission Lines (GIL) domestic production, consumption, key domestic manufacturers and share

Global SF6 Gas Insulated Transmission Lines (GIL) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Km)

Global SF6 Gas Insulated Transmission Lines (GIL) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Km)

Global SF6 Gas Insulated Transmission Lines (GIL) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Km)

This report profiles key players in the global SF6 Gas Insulated Transmission Lines (GIL) 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 Siemens, GE, Hitachi, Toshiba, Jiangsu Ankura Smart Transmission Engineering Technology, Henan Pinggao Electric, Xian XD Switchgear Electric, Nari Technology, Shandong Electrical Engineering&Equipment, Shandong Taikai High-Volt Switchgear, 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 SF6 Gas Insulated Transmission Lines (GIL) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Km) and average price (USD/Km) 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 SF6 Gas Insulated Transmission Lines (GIL) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global SF6 Gas Insulated Transmission Lines (GIL) Market, Segmentation by Type:

Single-phase Type

Three-phase Type

#### Global SF6 Gas Insulated Transmission Lines (GIL) Market, Segmentation by Voltage:

Below 200kV

201-500kV

501-800kV

801-1100kV

Above 1101kV

#### Global SF6 Gas Insulated Transmission Lines (GIL) Market, Segmentation by Current:

5000A Below

5000A and Above

#### Global SF6 Gas Insulated Transmission Lines (GIL) Market, Segmentation Insulating

**Gas Type:**

Single Gas

Mixed Gas

**Global SF6 Gas Insulated Transmission Lines (GIL) Market, Segmentation by Application:**

High-voltage Direct Current Transmission

Urban Power Transmission

Others

**Companies Profiled:**

Siemens

GE

Hitachi

Toshiba

Jiangsu Ankura Smart Transmission Engineering Technology

Henan Pinggao Electric

Xian XD Switchgear Electric

Nari Technology

Shandong Electrical Engineering&amp;Equipment

Shandong Taikai High-Volt Switchgear

## Sieyuan Electric

### **Key Questions Answered:**

1. How big is the global SF6 Gas Insulated Transmission Lines (GIL) market?
2. What is the demand of the global SF6 Gas Insulated Transmission Lines (GIL) market?
3. What is the year over year growth of the global SF6 Gas Insulated Transmission Lines (GIL) market?
4. What is the production and production value of the global SF6 Gas Insulated Transmission Lines (GIL) market?
5. Who are the key producers in the global SF6 Gas Insulated Transmission Lines (GIL) market?
6. What are the growth factors driving the market demand?

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