

Substation Automation Market Report by Module Type (Intelligent Electronic Devices, Communication Networks, SCADA Systems), Component (Hardware, Software, Services), Communication Channel (Ethernet, Copper Wire Communication, Power Line Communication, Optical Fiber Communication, and Others), Substation Type (Transmission, Distribution), Installation Type (New Installation, Retrofit Installation), End-Use Industry (Utility, Transportation, Metals & Mining, Oil and Gas, and Others), and Region 2024-2032

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Abstracts

The global substation automation market size reached US\$ 47.6 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 76.7 Billion by 2032, exhibiting a growth rate (CAGR) of 5.3% during 2024-2032. Increasing demand for reliable power supply, the surging need for reducing transmission and distribution losses, and the growing adoption of smart grid technology are some of the key factors driving the market.

Substation automation refers to the use of advanced technologies and communication systems to automate and enhance the monitoring, control, and protection of electrical substations. It involves the integration of intelligent devices, communication networks, and advanced software applications to enhance operational efficiency and reliability. Its components typically include intelligent electronic devices (IEDs) such as protective relays, meters, and controllers, along with communication infrastructure. These

components enable real-time monitoring, control, and data exchange within the substation and with higher-level systems. Substation automation offers numerous advantages, such as it enables remote monitoring and control, reducing the need for manual intervention, and enhancing safety. Additionally, it supports better grid management, enables load balancing, and enhances grid resilience. Currently, there are various types of substation automation systems, including centralized systems with a central control center and decentralized systems with distributed control units.

Substation Automation Market Trends:

The increasing demand for reliable power supply and the surging need for reducing transmission and distribution losses are some of the primary factors boosting the market growth. The growing adoption of smart grid technology and the deployment of automated systems for substation monitoring and control are fueling the market growth. Additionally, the rising renewable energy installations, the surging threat of cyberattacks on critical infrastructure, and the escalating need for optimizing the performance of grid infrastructure are contributing to the market growth. The implementation of stringent government regulations for reducing carbon emissions and the increasing need for enhancing grid resilience against natural disasters are propelling the market growth. Furthermore, the increasing adoption of cloud-based solutions and the integration of advanced communication technologies, such as the Internet of Things (IoT) and artificial intelligence (AI), are accelerating the market growth. Other factors, such as the burgeoning investment in power infrastructure, the need for real-time monitoring and control of substation equipment, the development of microgrid technology, integration of renewable energy sources, advancements in communication and networking technologies, and the escalating popularity of energy storage solutions, are driving the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global substation automation market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on module type, component, communication channel, substation type, installation type and end-use industry.

Module Type Insights:

Intelligent Electronic Devices
Communication Networks

SCADA Systems

The report has provided a detailed breakup and analysis of the global substation automation market based on the module type. This includes intelligent electronic devices, communication networks, and SCADA systems. According to the report, the intelligent electronic devices segment accounted for the largest market share.

Component Insights:

Hardware

- Reclose Controllers

- Programmable Logical Controllers

- Capacitor Banks

- Smart Meters

- Load Tap Changers

- Digital Relays

- Fiber-Optic Cables

- Others

Software

- Production Management Software

- Asset Management Software

- Performance Management Software

Services

- Installation and Commissioning

- Upgradation and Retrofitting

- Testing, Repair and Maintenance

- Others

The report has provided a detailed breakup and analysis of the global substation automation market based on the component. This includes hardware (reclose controllers, programmable logical controllers, capacitor banks, smart meters, load tap changers, digital relays, fiber-optic cables, and others), software (production management software, asset management software, performance management software), services (installation and commissioning, upgradation and retrofitting, testing, repair and maintenance, and others). According to the report, the hardware segment accounted for the largest market share.

Communication Channel Insights:

Ethernet
Copper Wire Communication
Power Line Communication
Optical Fiber Communication
Others

The report has provided a detailed breakup and analysis of the global substation automation market based on the communication channel. This includes ethernet, copper wire communication, power line communication, optical fiber communication, and others. According to the report, the copper wire communication segment accounted for the largest market share.

Substation Type Insights:

Transmission
Distribution

The report has provided a detailed breakup and analysis of the global substation automation market based on the substation type. This includes transmission and distribution. According to the report, the transmission segment accounted for the largest market share.

Installation Type Insights:

New Installation
Retrofit Installation

The report has provided a detailed breakup and analysis of the global substation automation market based on the installation type. This includes new installation and retrofit installation. According to the report, the new installation segment accounted for the largest market share.

End-Use Industry Insights:

Utility
Transportation
Metals & Mining
Oil and Gas
Others

The report has provided a detailed breakup and analysis of the global substation automation market based on the end-use industry. This includes utility, transportation, metals & mining, oil and gas, and others. According to the report, the utility segment accounted for the largest market share.

Regional Insights:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

The report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. As per the report, North America is the largest market. Some of the factors driving the North America substation

automation market include burgeoning investment in power infrastructure, the increasing need for real-time monitoring and control of substation equipment, and the development of microgrid technology.

Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global substation automation market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include ABB, Cooper Industries, Eaton Corporation, General Electric, Grid Net, Larsen & Toubro Limited, Power system Engineering, SAE IT-Systems GmbH & Co.KG, Schneider Electric, Siemens AG, Tropos Network Ltd., etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

Key Questions Answered in This Report

1. What was the size of the global substation automation market in 2023?
2. What is the expected growth rate of the global substation automation market during 2024-2032?
3. What are the key factors driving the global substation automation market?
4. What has been the impact of COVID-19 on the global substation automation market?
5. What is the breakup of the global substation automation market based on the module type?
6. What is the breakup of the global substation automation market based on the component?
7. What is the breakup of the global substation automation market based on the communication channel?
8. What is the breakup of the global substation automation market based on the substation type?
9. What is the breakup of the global substation automation market based on the installation type?
10. What is the breakup of the global substation automation market based on the end-use industry?
11. What are the key regions in the global substation automation market?
12. Who are the key players/companies in the global substation automation market?

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