

Substation Monitoring System Market By Communication Technology (Wired, Wireless), By Industry Application (Utility, Oil and Gas, Mining, Steel, Others), By Type (Transmission Substations, Distribution Substations): Global Opportunity Analysis and Industry Forecast, 2025-2034

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Abstracts

The global substation monitoring system market was valued at \$6.2 billion in 2024, and is projected to reach \$13.5 billion by 2034, growing at a CAGR of 8.3% from 2025 to 2034.

A substation monitoring system (SMS) is a sophisticated technology used to supervise and control the functioning of electrical substations. It is essential for maintaining the reliability and efficiency of power distribution systems. By constantly tracking key metrics such as voltage, current, temperature, and the condition of equipment, an SMS can identify irregularities and possible faults as they occur. This real-time monitoring supports preventive maintenance and helps minimize the chances of unplanned power interruptions.

The substation monitoring system market has witnessed significant growth in recent years, driven by increase in investments in modernizing the power grid and rise in need for reliable and efficient electricity delivery. Government and utility-led efforts to upgrade outdated infrastructure and cut down on transmission losses have further accelerated the market growth. In addition, emerging digital technologies, such as cloud computing, AI-driven analytics, and real-time monitoring tools, are creating new opportunities for improving operational efficiency. The need to incorporate renewable energy into power systems, along with rise in demand for predictive maintenance to prevent equipment breakdowns, is also encouraging wider adoption of SMS. Furthermore, rise in emphasis

on energy efficiency, grid stability, and automation of infrastructure is making substation monitoring systems a key component of future smart grid solutions. For instance, in October 2024, Schneider Electric launched next-generation smart grid solutions that include virtual substations and enhanced digital grid capabilities to help utilities better manage distributed energy resources and improve resiliency during extreme weather events.

However, high installation costs and cybersecurity risks are significant challenges limiting the expansion of the substation monitoring system market during the projected period. Implementing Intelligent Electronic Devices (IEDs), wireless sensor networks, and communication infrastructure involves considerable capital investment, which can deter adoption, particularly in regions with tight budgets. Thus, restraining the growth of the market. Moreover, as digitalization advances, concerns over the security of critical infrastructure against cyber threats are growing, presenting another major obstacle to broader market acceptance.

Segment Review:

The substation monitoring system market is segmented by communication technology, installation type, application, and region. By communication technology, the market is analyzed across wired and wireless. Based on type, the substation monitoring system market is segmented into transmission and distribution. Based on industry application, the market is divided into utility, mining, steel, oil and gas, and transportation. Region-wise, the market is analyzed across North America (the U.S., Canada, and Mexico), Europe (UK, Germany, France, Italy, and the rest of Europe), Asia-Pacific (China, Japan, India, South Korea, Rest of Asia-Pacific), and LAMEA (Latin America, the Middle East, and Africa).

Key Findings:

By communication technology, the wireless segment dominated the substation monitoring system market in 2024.

By type, the transmission substation segment led the market in 2024.

By industry application, the utility segment held the largest share in 2024 and is expected to maintain dominance during the forecast period.

Region-wise, Asia-Pacific emerged as the leading region in the substation monitoring

system market in 2024.

Competition Analysis:

Competitive analysis and profiles of the major market players, such as Emerson Electric Co., Sentient Energy, Inc., Eaton Corporation PLC, Honeywell International Inc., Schneider Electric, ABB Ltd., NovaTech Corporation, Crompton Greaves Consumer Electricals Ltd, GE Vernova, and Siemens are provided in this report. Product launch, partnership, and acquisition business strategies were adopted by the major market players in 2024.

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New Product Development/ Product Matrix of Key Players

Patient/epidemiology data at country, region, global level

Regulatory Guidelines

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

Market share analysis of players at global/region/country level

Key Market Segments

By Communication Technology

Wired

Wireless

By Industry Application

Utility

Oil and Gas

Mining

Steel

Others

By Type

Transmission Substations

Distribution Substations

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

France

UK

Italy

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

Key Market Players

Emerson Electric Co.

Sentient Energy, Inc.

Honeywell International Inc.

ABB Ltd.

Crompton Greaves Consumer Electricals Ltd

Novatech

Siemens AG

Eaton Corporation PLC

Schneider Electric

GE Vernova

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