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Substation Automation Market Size, Share & Trends Analysis Report By Component (Hardware, Software, Service), By Type, By Technology (New, Retrofit), By End Use, By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

This report can be delivered to the clients within 3 Business Days

Substation Automation Market Growth & Trends

The global substation automation market size is estimated treach USD 69.29 billion by 2030, expanding at a CAGR of 6.6% from 2025 t2030, according ta new report by Grand View Research, Inc. The increasing requirement for operation efficiency, improved quality, increased production, high uptime, and ease of monitoring and controlling the industrial process are factors that are expected tcontribute tindustry growth.

The growing advancements in the smart grid technology are increasing the scope for SCADA systems. The primary factors leading tthe rising adoption of smart grid technology include improved reliability, efficiency, and sustainability of the existing power systems. They are widely used in automation technologies, which actively monitor transmission and distribution grids.

The energy and power utilities are focusing on minimizing the distribution and transmission losses, which has resulted in the increasing deployment of substation automation, driving the industry growth. Moreover, utilities across the world are facing a high requirement for improved electric service reliability and stability. They are focusing on improving the resiliency of the grid, which is contributing toward the high industry

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demand.

Substation Automation Market Report Highlights

The hardware segment dominated the market with a share of 44.0% in 2024 due tthe essential role that hardware components play in ensuring the reliability and efficiency of power distribution systems.

The transmission substation segment dominated the market with the largest revenue share in 2024 due tits critical role in managing high-voltage electricity transmission.

The new segment dominated the market with the largest revenue share in 2024. This segment encompasses modern automation systems that enhance operational efficiency, reliability, and safety within substations.

The utilities segment dominated the market with the largest revenue share in 2024. As utilities strive tenhance grid reliability and efficiency, they are increasingly adopting advanced automation technologies that facilitate better monitoring and control of electrical systems.

North America dominated the market with a significant revenue share of over 31.3% in 2024. However, emerging countries such as China and India are anticipated tdrive the substantial demand in this region, owing tthe increasing demand for energy efficiency and smart power infrastructure. The automation technology has become an integral part of the power systems worldwide. It is expected tdrive power transmission and distribution, contributing tthe market growth. Europe is anticipated twitness considerable growth owing tthe increasing demand for smart grid

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solutions in Western Europe.

The key industry players include ABB Ltd., CiscSystems, Inc., Crompton Greaves Ltd., Eaton Corporation Plc., General Electric Company, Honeywell International Inc., Siemens AG, Schneider Electric SE, Trilliant Holdings, Inc., and Venson Electric Pvt. Ltd. The manufacturers in the market are investing profoundly in developing advanced solutions and focusing on potential opportunities in the industry.

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