

Global Electric Power Distribution Automation Systems Market Size study & Forecast, by Implementation (Substation automation, Feeder automation, Consumer side automation) by Application (Industrial, Commercial, Residential) and Regional Analysis, 2023-2030

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Abstracts

Global I Market is valued approximately at USD 13.46 billion in 2022 and is anticipated to grow with a growth rate of more than 6.2% over the forecast period 2023-2030.

Electric Power Distribution Automation Systems are advanced technological solutions designed to enhance the efficiency, reliability and safety of electrical power distribution networks. These systems integrate various sensors, communication networks, control devices, and intelligent algorithms to monitor, analyze, and manage the flow of electricity in real-time. By automating processes such as fault detection, isolation, and restoration, distribution automation systems can minimize outage durations, improve grid resilience, and optimize energy delivery. They enable utilities to remotely control switches, reclosers, and other grid components, respond to disturbances faster, and reduce manual intervention in routine operations. The Electric Power Distribution Automation Systems market is expanding because of factors such as rising electricity demand, rising investment in energy verticals, such as oil & gas and rising initiatives for grid modernization.

Rising energy demand is a significant driver behind the growth of the Electric Power Distribution Automation Systems market. As populations grow and economies develop, the need for reliable and efficient electricity distribution becomes increasingly crucial. Electric Power Distribution Automation Systems offer advanced technologies that enhance the management and control of power distribution networks. These systems

enable utilities to optimize their operations, minimize downtime, and respond swiftly to faults or outages According to the International Energy Agency, the year-on-year change in electricity demand in the year 2022 stood at 498 Terawatt-Hour (TWh) which increased to 705 Terawatt-Hour (TWh) in the year 2023 and it is projected to reach 938 Terawatt-Hour (TWh) by the year 2025. In addition, rising development of renewable energy power plants, rising technological advancement, are some factors creating new opportunities to the market growth. However, the high cost of electric power distribution automation systems and cybersecurity concerns stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Electric Power Distribution Automation Systems Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 with largest market share. The increasing proliferation of manufacturing facilities, accompanied by the rapid expansion of the industrial sector in the Asia Pacific region, is anticipated to drive the demand for electric power distribution automation systems. Latin America is expected to grow at the fastest rate during the forecast period, owing to factors such as owing oil and gas industry, rising investment in renewable energy projects and government support to the industry.

Major market player included in this report are:

ABB Group

Eaton Corporation Plc

Elster Solutions

G&W Electric Company

General Electric

Hubbell Power Systems

Ittron, Inc.

Mitsubishi Electric Corp.

S&C Electric Company

Schneider Electric

Recent Developments in the Market:

In January 2023, Itron unveiled the extension of its Distributed Intelligence, introducing the new DI network interface card (NIC). This enhancement facilitates grid analysis and decision-making by enabling the seamless integration of distributed energy resources like electric vehicles and solar low-voltage networks.

In May 2023, SEL (Schweitzer Engineering Laboratories) introduced the 3U form factor for its SEL-3350 computing platform. This updated 3U form factor features 48 RJ45 EIA-232 ports, 24 digital I/O inputs, 8 outputs, and redundant hot-swappable power supplies.

Global Electric Power Distribution Automation Systems Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Implementation , Application, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in

recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and Implementation offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Implementation:

Substation automation

Feeder automation

Consumer side automation

By Application:

Industrial

Commercial

Residential

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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