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Distribution Automation Market Size, Share & Trends Analysis Report By Type (Wired, Wireless), By Application (Private Utility, Public Utility), By Component (Software, Hardware, Services), By End-use (Industrial), By Region, And Segment Forecasts, 2025 - 2030

https://marketpublishers.com/r/DC90A1613EE0EN.html
Date: May 2025
Pages: 130
Price: US$ 4,950.00 (Single User License)
ID: DC90A1613EE0EN

Abstracts

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Distribution Automation Market Size & Trends

The global distribution automation market size was estimated at USD 18,833.4 million in 2024 and is expected to grow at a CAGR of 14.4% from 2025 to 2030. The market growth is primarily driven by the increasing demand for reliable and uninterrupted power supply, coupled with the modernization of aging grid infrastructure.

Advancements in smart grid technologies and the integration of IoT, artificial intelligence, and cloud-based solutions are enabling utilities to enhance operational efficiency and reduce outage durations. Government mandates focused on energy efficiency, grid reliability, and carbon emission reductions are also accelerating the adoption of automation systems in power distribution. The growing penetration of distributed energy resources (DERs) such as solar and wind is reshaping the landscape of utility operations. These factors contribute to the robust growth of the distribution automation industry.

The availability of advanced communication technologies and smart grid infrastructure is significantly influencing the growth of the distribution automation industry. Utilities now have access to a wide range of automation solutions such as feeder automation, voltage regulation, automated switching, and real-time fault detection, allowing them to enhance the reliability and efficiency of power distribution networks. This flexibility enables energy providers to reduce downtime, improve load management, and respond quickly to outages, thereby strengthening the overall distribution automation industry.

In addition, the growing emphasis on energy efficiency and grid modernization is propelling the distribution automation market forward. Governments and regulatory bodies are introducing supportive policies and funding initiatives aimed at upgrading aging grid infrastructure and improving power quality. These mandates are pushing utilities to adopt automation systems that can monitor, control, and optimize energy flow in real time, contributing to significant operational cost savings and improved sustainability.

Furthermore, the rapid adoption of IoT, artificial intelligence (AI), and advanced metering infrastructure (AMI) is reshaping the distribution automation landscape. Utilities investing in connected devices and cloud-based platforms, operators can now gather granular insights into energy consumption and network performance. This integration of digital technologies enables predictive maintenance, enhanced fault diagnosis, and improved decision-making capabilities.

Moreover, the rise in renewable energy integration, such as solar and wind, into distribution networks presents valuable opportunities for automated control systems. Distributed energy resources (DERs) become more prevalent as distribution automation systems play a critical role in managing load fluctuations and ensuring grid stability. This increasing need for responsive, flexible grid solutions is expected to remain a key driver of the distribution automation market expansion.

Global Distribution Automation Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest technological trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the distribution automation market report based on type, application, components, end use, and region:

Type Outlook (Revenue, USD Million, 2018 - 2030)

Wired

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Wireless

Application Outlook (Revenue, USD Million, 2018 - 2030)

Private Utility

Public Utility

Component Outlook (Revenue, USD Million, 2018 - 2030)

Software

Hardware

Services

End-use Outlook (Revenue, USD Million, 2018 - 2030)

Industrial

Commercial

Residential

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

- U.S.
- Canada
- Mexico

Europe

- UK

Germany

France

Asia Pacific

China

Japan

India

South Korea

Australia

Latin America

Brazil

Middle East & Africa

UAE

Saudi Arabia

South Africa

Companies Mentioned

Schneider Electric SE
Toshiba Corporation.
Mitsubishi Electric Corporation
Schweitzer Engineering Laboratories, Inc.
Eaton.
ABB
Itron Inc.
S&C Electric Company

Siemens
Xylem.
Trilliant Holdings Inc.
NARI Technology Co., Ltd

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