

Electric Power Substation Automation Market By Offering (Software, Hardware, Services), By Type (Transmission Substation, Distribution Substation), By Component (Intelligent Electronic Devices (IEDs), Programmable logic controller (PLC), Supervisory Control and Data Acquisition (SCADA), Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2023-06-01 | 272 pages | Allied Market Research

AVAILABLE LICENSES:

- Cloud Access License \$3456.00
- Business User License \$5730.00
- Enterprise License \$9600.00

Report description:

Electric Power Substation Automation refers to the implementation of advanced technologies and systems to enhance the monitoring, control, and management of electrical substations. Substations are critical components of the power grid that facilitate the transmission, distribution, and transformation of electricity. Through automation, substations are equipped with intelligent devices, communication networks, and software applications to enable real-time data collection, analysis, and decision-making processes.

One important application of Electric Power Substation Automation is the improvement of grid reliability and operational efficiency. By deploying automation technologies, utilities can monitor and control various substation components, such as circuit breakers, transformers, and meters, in real-time. This allows for efficient detection of faults, rapid response to incidents, and effective power flow management. Automation also enables utilities to optimize the operation of substations, balance loads, and improve the overall reliability of the power grid.

Another significant application is the integration of renewable energy sources. With the increasing adoption of solar, wind, and other renewable energy technologies, substations play a crucial role in integrating these intermittent energy sources into the grid. Automation allows for real-time monitoring of renewable energy generation, effective management of power flow, and synchronization with the grid. This enables the smooth integration and optimal utilization of renewable energy resources, contributing to the transition to a more sustainable and clean energy system.

Moreover, Electric Power Substation Automation finds importance in the industrial sector. Substations equipped with automation

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

technologies enable efficient monitoring of power usage, predictive maintenance of equipment, and the ability to detect and respond to faults promptly. This is particularly relevant in industries such as manufacturing, mining, and oil and gas, where a stable and uninterrupted power supply is essential for smooth operations.□

The electric power substation automation market analysis is anticipated to expand significantly during the forecast period owing to grid modernization initiatives, and increase in demand for electricity globally. Additionally, during the forecast period, the electric power substation automation market is anticipated to benefit regional grid expansion. On the contrary, the high initial investment, and complexity of integration is the restraint for electric power substation automation market growth during the forecast period.□

The electric power substation automation market is segmented on the basis of offering, type, component, and region. On the basis of offering, the market is bifurcated into software, hardware, and services. In 2022, the hardware segment dominated the market, in terms of revenue, and it is expected to acquire major market share till 2032. On the basis of type, the market is segregated into transmission substation, and distribution substation. The distribution substation segment acquired the largest share in 2022 and is expected to grow at a significant CAGR from 2023 to 2032. On the basis of component, the market is segregated into intelligent electronic devices (IEDS), programmable logic controller (PLC), supervisory control and data acquisition (SCADA), and others. The intelligent electronic devices (IEDS) segment acquired the largest share in 2022 and is expected to grow at a significant CAGR from 2023 to 2032.□

Region-wise, the Electric Power Substation Automation Market trends are analyzed across North America (the U.S., Canada, and Mexico), Europe (UK, Germany, France, and rest of Europe), Asia-Pacific (China, Japan, India, South Korea, and rest of Asia-Pacific), and LAMEA (Latin America, Middle East, and Africa). Competitive analysis and profiles of the major global electric power substation automation market players that have been provided in the report include ABB Ltd, Cisco, Eaton, Hitachi Energy Ltd., Honeywell International Inc., Itron Inc., NovaTech, LLC., Rockwell Automation, Schneider Electric, and Siemens. The key strategies adopted by the major players of the electric power substation automation market are product launch, product development, partnership, investment, acquisition, contract, branding, and expansion

Key Benefits For Stakeholders

-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the electric power substation automation market analysis from 2022 to 2032 to identify the prevailing electric power substation automation market opportunities.

-The market research is offered along with information related to key drivers, restraints, and opportunities.

-Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

-In-depth analysis of the electric power substation automation market segmentation assists to determine the prevailing market opportunities.

-Major countries in each region are mapped according to their revenue contribution to the global market.

-Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

-The report includes the analysis of the regional as well as global electric power substation automation market trends, key players, market segments, application areas, and market growth strategies.

Key Market Segments

By Offering

- Software
- Hardware
- Services

By Type

- Transmission Substation
- Distribution Substation

By Component

- Intelligent Electronic Devices (IEDs)

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- Programmable logic controller (PLC)
- Supervisory Control and Data Acquisition (SCADA)

- Others

By Region

- North America

- U.S.

- Canada

- Mexico

- Europe

- UK

- Germany

- France

- Rest of Europe

- Asia-Pacific

- China

- Japan

- India

- South Korea

- Rest of Asia-Pacific

- LAMEA

- Latin America

- Middle East

- Africa

- Key Market Players

- ABB Ltd.

- Cisco

- Eaton Corporation

- Hitachi, Ltd.

- Honeywell International Inc.

- Itron, Inc.

- NovaTech, LLC

- Rockwell Automation Inc.

- Schneider Electric SE.

- Siemens

Table of Contents:

CHAPTER 1: INTRODUCTION

1.1. Report description

1.2. Key market segments

1.3. Key benefits to the stakeholders

1.4. Research Methodology

1.4.1. Primary research

1.4.2. Secondary research

1.4.3. Analyst tools and models

CHAPTER 2: EXECUTIVE SUMMARY

2.1. CXO Perspective

CHAPTER 3: MARKET OVERVIEW

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 3.1. Market definition and scope
 - 3.2. Key findings
 - 3.2.1. Top impacting factors
 - 3.2.2. Top investment pockets
 - 3.3. Porter's five forces analysis
 - 3.3.1. Bargaining power of suppliers
 - 3.3.2. Bargaining power of buyers
 - 3.3.3. Threat of substitutes
 - 3.3.4. Threat of new entrants
 - 3.3.5. Intensity of rivalry
 - 3.4. Market dynamics
 - 3.4.1. Drivers
 - 3.4.1.1. Grid modernization initiatives
 - 3.4.1.2. Increase in demand for electricity throughout the world
 - 3.4.2. Restraints
 - 3.4.2.1. High initial investment
 - 3.4.2.2. Complexity of Integration
 - 3.4.3. Opportunities
 - 3.4.3.1. Regional grid expansion
 - 3.5. COVID-19 Impact Analysis on the market
- CHAPTER 4: ELECTRIC POWER SUBSTATION AUTOMATION MARKET, BY OFFERING
- 4.1. Overview
 - 4.1.1. Market size and forecast
 - 4.2. Software
 - 4.2.1. Key market trends, growth factors and opportunities
 - 4.2.2. Market size and forecast, by region
 - 4.2.3. Market share analysis by country
 - 4.3. Hardware
 - 4.3.1. Key market trends, growth factors and opportunities
 - 4.3.2. Market size and forecast, by region
 - 4.3.3. Market share analysis by country
 - 4.4. Services
 - 4.4.1. Key market trends, growth factors and opportunities
 - 4.4.2. Market size and forecast, by region
 - 4.4.3. Market share analysis by country
- CHAPTER 5: ELECTRIC POWER SUBSTATION AUTOMATION MARKET, BY TYPE
- 5.1. Overview
 - 5.1.1. Market size and forecast
 - 5.2. Transmission Substation
 - 5.2.1. Key market trends, growth factors and opportunities
 - 5.2.2. Market size and forecast, by region
 - 5.2.3. Market share analysis by country
 - 5.3. Distribution Substation
 - 5.3.1. Key market trends, growth factors and opportunities

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

5.3.2. Market size and forecast, by region

5.3.3. Market share analysis by country

CHAPTER 6: ELECTRIC POWER SUBSTATION AUTOMATION MARKET, BY COMPONENT

6.1. Overview

6.1.1. Market size and forecast

6.2. Intelligent Electronic Devices (IEDs)

6.2.1. Key market trends, growth factors and opportunities

6.2.2. Market size and forecast, by region

6.2.3. Market share analysis by country

6.3. Programmable logic controller (PLC)

6.3.1. Key market trends, growth factors and opportunities

6.3.2. Market size and forecast, by region

6.3.3. Market share analysis by country

6.4. Supervisory Control and Data Acquisition (SCADA)

6.4.1. Key market trends, growth factors and opportunities

6.4.2. Market size and forecast, by region

6.4.3. Market share analysis by country

6.5. Others

6.5.1. Key market trends, growth factors and opportunities

6.5.2. Market size and forecast, by region

6.5.3. Market share analysis by country

CHAPTER 7: ELECTRIC POWER SUBSTATION AUTOMATION MARKET, BY REGION

7.1. Overview

7.1.1. Market size and forecast By Region

7.2. North America

7.2.1. Key trends and opportunities

7.2.2. Market size and forecast, by Offering

7.2.3. Market size and forecast, by Type

7.2.4. Market size and forecast, by Component

7.2.5. Market size and forecast, by country

7.2.5.1. U.S.

7.2.5.1.1. Key market trends, growth factors and opportunities

7.2.5.1.2. Market size and forecast, by Offering

7.2.5.1.3. Market size and forecast, by Type

7.2.5.1.4. Market size and forecast, by Component

7.2.5.2. Canada

7.2.5.2.1. Key market trends, growth factors and opportunities

7.2.5.2.2. Market size and forecast, by Offering

7.2.5.2.3. Market size and forecast, by Type

7.2.5.2.4. Market size and forecast, by Component

7.2.5.3. Mexico

7.2.5.3.1. Key market trends, growth factors and opportunities

7.2.5.3.2. Market size and forecast, by Offering

7.2.5.3.3. Market size and forecast, by Type

7.2.5.3.4. Market size and forecast, by Component

7.3. Europe

7.3.1. Key trends and opportunities

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.3.2. Market size and forecast, by Offering
- 7.3.3. Market size and forecast, by Type
- 7.3.4. Market size and forecast, by Component
- 7.3.5. Market size and forecast, by country
 - 7.3.5.1. UK
 - 7.3.5.1.1. Key market trends, growth factors and opportunities
 - 7.3.5.1.2. Market size and forecast, by Offering
 - 7.3.5.1.3. Market size and forecast, by Type
 - 7.3.5.1.4. Market size and forecast, by Component
 - 7.3.5.2. Germany
 - 7.3.5.2.1. Key market trends, growth factors and opportunities
 - 7.3.5.2.2. Market size and forecast, by Offering
 - 7.3.5.2.3. Market size and forecast, by Type
 - 7.3.5.2.4. Market size and forecast, by Component
 - 7.3.5.3. France
 - 7.3.5.3.1. Key market trends, growth factors and opportunities
 - 7.3.5.3.2. Market size and forecast, by Offering
 - 7.3.5.3.3. Market size and forecast, by Type
 - 7.3.5.3.4. Market size and forecast, by Component
 - 7.3.5.4. Rest of Europe
 - 7.3.5.4.1. Key market trends, growth factors and opportunities
 - 7.3.5.4.2. Market size and forecast, by Offering
 - 7.3.5.4.3. Market size and forecast, by Type
 - 7.3.5.4.4. Market size and forecast, by Component
- 7.4. Asia-Pacific
 - 7.4.1. Key trends and opportunities
 - 7.4.2. Market size and forecast, by Offering
 - 7.4.3. Market size and forecast, by Type
 - 7.4.4. Market size and forecast, by Component
 - 7.4.5. Market size and forecast, by country
 - 7.4.5.1. China
 - 7.4.5.1.1. Key market trends, growth factors and opportunities
 - 7.4.5.1.2. Market size and forecast, by Offering
 - 7.4.5.1.3. Market size and forecast, by Type
 - 7.4.5.1.4. Market size and forecast, by Component
 - 7.4.5.2. Japan
 - 7.4.5.2.1. Key market trends, growth factors and opportunities
 - 7.4.5.2.2. Market size and forecast, by Offering
 - 7.4.5.2.3. Market size and forecast, by Type
 - 7.4.5.2.4. Market size and forecast, by Component
 - 7.4.5.3. India
 - 7.4.5.3.1. Key market trends, growth factors and opportunities
 - 7.4.5.3.2. Market size and forecast, by Offering
 - 7.4.5.3.3. Market size and forecast, by Type
 - 7.4.5.3.4. Market size and forecast, by Component
 - 7.4.5.4. South Korea
 - 7.4.5.4.1. Key market trends, growth factors and opportunities

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 7.4.5.4.2. Market size and forecast, by Offering
- 7.4.5.4.3. Market size and forecast, by Type
- 7.4.5.4.4. Market size and forecast, by Component
- 7.4.5.5. Rest of Asia-Pacific
 - 7.4.5.5.1. Key market trends, growth factors and opportunities
 - 7.4.5.5.2. Market size and forecast, by Offering
 - 7.4.5.5.3. Market size and forecast, by Type
 - 7.4.5.5.4. Market size and forecast, by Component
- 7.5. LAMEA
 - 7.5.1. Key trends and opportunities
 - 7.5.2. Market size and forecast, by Offering
 - 7.5.3. Market size and forecast, by Type
 - 7.5.4. Market size and forecast, by Component
 - 7.5.5. Market size and forecast, by country
 - 7.5.5.1. Latin America
 - 7.5.5.1.1. Key market trends, growth factors and opportunities
 - 7.5.5.1.2. Market size and forecast, by Offering
 - 7.5.5.1.3. Market size and forecast, by Type
 - 7.5.5.1.4. Market size and forecast, by Component
 - 7.5.5.2. Middle East
 - 7.5.5.2.1. Key market trends, growth factors and opportunities
 - 7.5.5.2.2. Market size and forecast, by Offering
 - 7.5.5.2.3. Market size and forecast, by Type
 - 7.5.5.2.4. Market size and forecast, by Component
 - 7.5.5.3. Africa
 - 7.5.5.3.1. Key market trends, growth factors and opportunities
 - 7.5.5.3.2. Market size and forecast, by Offering
 - 7.5.5.3.3. Market size and forecast, by Type
 - 7.5.5.3.4. Market size and forecast, by Component

CHAPTER 8: COMPETITIVE LANDSCAPE

- 8.1. Introduction
- 8.2. Top winning strategies
- 8.3. Product Mapping of Top 10 Player
- 8.4. Competitive Dashboard
- 8.5. Competitive Heatmap
- 8.6. Top player positioning, 2022

CHAPTER 9: COMPANY PROFILES

- 9.1. ABB Ltd.
 - 9.1.1. Company overview
 - 9.1.2. Key Executives
 - 9.1.3. Company snapshot
 - 9.1.4. Operating business segments
 - 9.1.5. Product portfolio
 - 9.1.6. Business performance
 - 9.1.7. Key strategic moves and developments
- 9.2. Cisco
 - 9.2.1. Company overview

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 9.2.2. Key Executives
- 9.2.3. Company snapshot
- 9.2.4. Operating business segments
- 9.2.5. Product portfolio
- 9.2.6. Business performance
- 9.3. Eaton Corporation
 - 9.3.1. Company overview
 - 9.3.2. Key Executives
 - 9.3.3. Company snapshot
 - 9.3.4. Operating business segments
 - 9.3.5. Product portfolio
 - 9.3.6. Business performance
 - 9.3.7. Key strategic moves and developments
- 9.4. Hitachi, Ltd.
 - 9.4.1. Company overview
 - 9.4.2. Key Executives
 - 9.4.3. Company snapshot
 - 9.4.4. Operating business segments
 - 9.4.5. Product portfolio
 - 9.4.6. Business performance
 - 9.4.7. Key strategic moves and developments
- 9.5. Honeywell International Inc.
 - 9.5.1. Company overview
 - 9.5.2. Key Executives
 - 9.5.3. Company snapshot
 - 9.5.4. Operating business segments
 - 9.5.5. Product portfolio
 - 9.5.6. Business performance
 - 9.5.7. Key strategic moves and developments
- 9.6. Itron, Inc.
 - 9.6.1. Company overview
 - 9.6.2. Key Executives
 - 9.6.3. Company snapshot
 - 9.6.4. Operating business segments
 - 9.6.5. Product portfolio
 - 9.6.6. Business performance
 - 9.6.7. Key strategic moves and developments
- 9.7. NovaTech, LLC
 - 9.7.1. Company overview
 - 9.7.2. Key Executives
 - 9.7.3. Company snapshot
 - 9.7.4. Operating business segments
 - 9.7.5. Product portfolio
 - 9.7.6. Business performance
 - 9.7.7. Key strategic moves and developments
- 9.8. Rockwell Automation Inc.
 - 9.8.1. Company overview

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

- 9.8.2. Key Executives
- 9.8.3. Company snapshot
- 9.8.4. Operating business segments
- 9.8.5. Product portfolio
- 9.8.6. Business performance
- 9.8.7. Key strategic moves and developments
- 9.9. Schneider Electric SE.
 - 9.9.1. Company overview
 - 9.9.2. Key Executives
 - 9.9.3. Company snapshot
 - 9.9.4. Operating business segments
 - 9.9.5. Product portfolio
 - 9.9.6. Business performance
 - 9.9.7. Key strategic moves and developments
- 9.10. Siemens
 - 9.10.1. Company overview
 - 9.10.2. Key Executives
 - 9.10.3. Company snapshot
 - 9.10.4. Operating business segments
 - 9.10.5. Product portfolio
 - 9.10.6. Business performance

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Electric Power Substation Automation Market By Offering (Software, Hardware, Services), By Type (Transmission Substation, Distribution Substation), By Component (Intelligent Electronic Devices (IEDs), Programmable logic controller (PLC), Supervisory Control and Data Acquisition (SCADA), Others): Global Opportunity Analysis and Industry Forecast, 2023-2032

Market Report | 2023-06-01 | 272 pages | Allied Market Research

To place an Order with Scotts International:

- Print this form
- Complete the relevant blank fields and sign
- Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Cloud Access License	\$3456.00
	Business User License	\$5730.00
	Enterprise License	\$9600.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2026-03-11"/>
		Signature	<input type="text"/>