

**Distribution Automation Market by Offering (Field Devices, Software, Services), Communication Technology (Wired (Fiber Optic, Ethernet, Powerline Carrier, IP), Wireless), Utility (Public Utilities, Private Utilities) and Region - Global Forecast to 2029**

Market Report | 2024-05-15 | 302 pages | MarketsandMarkets

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**Report description:**

The distribution automation market is estimated to grow from USD 19.3 billion in 2024 to USD 36.5 billion by 2029, at a CAGR of 13.6% during the forecast period. The market is primarily driven the need for the improved grid infrastructure and governmental initiatives to provide last mile connectivity of electricity.

"Field devices, by offering, expected to be second largest market from 2024 to 2029"

The distribution automation market, by offering, is bifurcated into field devices, software and services. The software segment is expected to second largest segment during the forecast period. Software assists grid operators in increasing the reliability and efficiency of grid operations. In the realm of Distribution Automation for electricity, software plays a vital role, offering diverse applications aimed at bolstering the operational efficiency of distribution power systems. These software solutions empower utility companies to gather, automate, scrutinize, and refine data, thereby enhancing the efficacy of their distribution networks. Specifically designed for distribution automation systems, these software components furnish real-time operational alerts concerning various grid elements, such as fault detectors, voltage regulators, capacitor controllers, and switches. This data is then shared with other intelligent field devices, and algorithms integrate it with transmission systems to optimize distribution system performance.

"Wireless, by communication technology expected to be second largest market from 2024 to 2029"

The distribution automation market, by communication technology, is segmented into wired and wireless. The wireless segment is expected to second largest segment during the forecast period. Wireless radio technologies like CDMA are employed in smart grids for distribution automation. These technologies offer cost-effectiveness and durability, rendering them ideal for small-scale

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distribution automation systems (DAS), especially in areas where setting up a communication network is difficult. Wireless communication is well-suited for feeder reconfiguration, facilitating system monitoring and control from the substation to the customer's meter. This serves various purposes, including enhancing system reliability, minimizing power losses, and handling voltage fluctuations.

"Private utilities, by utility, expected to be fastest market from 2024 to 2029"

The distribution automation market, by utility, is bifurcated into public utilities and private utilities. The private utilities segment is expected to be the fastest market during the forecast period. Privatizing electricity generation and distribution has been discussed in a number of nations, with various techniques taken to increase competition and improve sector efficiency. Private utilities are investing in technologies like IoT and 5G, which enable more robust and real-time data sharing, allowing them to make data-driven decisions to meet rising energy demand.

"Asia Pacific is expected to be the largest region in the distribution automation market."

Asia Pacific is expected to have highest market during the forecast period. The demand for distribution automation in Asia Pacific is driven by the exponential increase in demand for the electricity especially from rural areas. Several reasons contribute to the Asia Pacific region's dominance in the Electricity Distribution Automation industry. First, the region's population rate are fast increasing, resulting in increased demand for electricity. Demand for distribution automation in Asia Pacific is driven by the exponential increase in demand for the electricity especially from rural areas. Second, the region is seeing a major growth in the integration of renewable energy sources, such as solar and wind, into the electricity system. Distribution automation systems play an important role in seamlessly integrating these intermittent sources into the grid, generating demand for these technology in the region.

Breakdown of Primaries:

In-depth interviews have been conducted with various key industry participants, subject-matter experts, C-level executives of key market players, and industry consultants, among other experts, to obtain and verify critical qualitative and quantitative information, as well as to assess future market prospects. The distribution of primary interviews is as follows:

By Company Type: Tier 1- 65%, Tier 2- 24%, and Tier 3- 11%

By Designation: C-Level- 30%, Director Level- 25%, and Others- 45%

By Region: North America - 20%, Europe - 25%, Asia Pacific - 30%, South America - 10%, and Middle East & Africa - 15%

Note: Other designations include sales managers, marketing managers, product managers, and product engineers.

The tier of the companies is defined based on their total revenue as of 2023. Tier 1: USD 1 billion and above, Tier 2: From USD 500 million to USD 1 billion, and Tier 3: <USD 500 million.

The Distribution automation market is dominated by a few major players that have a wide regional presence. The leading players in the distribution automation market are ABB (Switzerland), Schneider Electric (France), Siemens (Germany), Eaton (Ireland) and General Electric Company (US).

Research Coverage:

The report defines, describes, and forecasts the distribution automation market, by offering, communication technology, utility, and region. It also offers a detailed qualitative and quantitative analysis of the market. The report provides a comprehensive review of the major market drivers, restraints, opportunities, and challenges. It also covers various important aspects of the market, which include the analysis of the competitive landscape, market dynamics, market estimates in terms of value, and future trends in the distribution automation market.

Key Benefits of Buying the Report

-□Governmental initiatives to provide last mile connectivity of electricity, and boost in Smart Grid Infrastructure are few of the key factors driving the distribution automation market. Factors such as high installation costs of distribution automation systems restrain the growth of the market. The need for greater flexibility and control in electricity supply is expected to present lucrative opportunities for the players operating in the distribution automation market. The threats posed by the lack of skilled personnel and the increasing threat of automated cyber-attacks pose a major challenge for the players, especially for emerging players operating in the distribution automation market.

-□Product Development/ Innovation: The distribution automation market is witnessing significant product development and innovation, driven by the growing demand for smart grid infrastructure.

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-□Market Development: Siemens and Areti have announced their collaboration on the RomeFlex project, aimed at addressing congestion and voltage fluctuations within the strained power grids of Italy's capital city. Areti, playing a pivotal role in Italy's energy transition, has devised an innovative local flexibility market architecture, which will be further enhanced by Siemens' expertise in the energy domain and specialized technology. Over the next decade, it's anticipated that peak electricity demand on Rome's DSO power grid will rise from 2,200 MW to 3,300 MW. To effectively manage this surge in energy demand and mitigate potential grid challenges such as blackouts or voltage issues, Areti is rapidly increasing its grid capacity, accelerating its digital transformation to usher in the next era of grid management.

-□Market Diversification: Siemens has unveiled its latest Gridscale X software. This product empowers Independent System Operators (ISOs) and Transmission System Operators (TSOs) to centrally oversee their network data using a Digital Twin of the power grid, enhancing efficiency in planning, development, and operations. The Gridscale X Network Model Manager adeptly manages various grid scenarios, including the integration of new or changing assets, streamlines project management, and encourages collaboration among utilities. Designed with cloud readiness and full accessibility via APIs, the software features a modular architecture and state-of-the-art user interface. Positioned as the next evolution in Siemens' network model management offerings, the Gridscale X Network Model Manager is a component of Siemens Xcelerator, an open digital business platform facilitating customers' digital transformation journey.

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players, like include ABB (Switzerland), Schneider Electric (France), Siemens (Germany), Eaton (Ireland) and General Electric Company (US), among others in the distribution automation market.

## Table of Contents:

|   |    |
|---|----|
| 1□INTRODUCTION□   | 45 |
| 1.1□STUDY OBJECTIVES□                                     | 45 |
| 1.2□MARKET DEFINITION□                                    | 45 |
| 1.3□STUDY SCOPE□  | 46 |
| 1.3.1□INCLUSIONS AND EXCLUSIONS□                          | 46 |
| 1.3.2□MARKETS COVERED□                                    | 47 |
| FIGURE 1□DISTRIBUTION AUTOMATION MARKET: SEGMENTATION□    | 47 |
| 1.3.3□REGIONAL SCOPE□                                     | 47 |
| 1.3.4□YEARS CONSIDERED□                                   | 48 |
| 1.4□CURRENCY CONSIDERED□                                  | 48 |
| 1.5□UNITS CONSIDERED□                                     | 48 |
| 1.6□LIMITATIONS□  | 48 |
| 1.7□STAKEHOLDERS□   | 49 |
| 1.8□SUMMARY OF CHANGES□                                   | 49 |
| 1.9□RECESSION IMPACT□                                     | 50 |
| 2□RESEARCH METHODOLOGY□                                   | 51 |
| 2.1□RESEARCH APPROACH□                                    | 51 |
| FIGURE 2□DISTRIBUTION AUTOMATION MARKET: RESEARCH DESIGN□ | 51 |
| 2.2□PRIMARY AND SECONDARY RESEARCH□                       | 52 |
| 2.2.1□SECONDARY DATA□                                     | 52 |
| 2.2.1.1□List of major secondary sources□                  | 52 |
| 2.2.1.2□Key data from secondary sources□                  | 52 |
| 2.2.2□PRIMARY DATA□                                       | 53 |
| 2.2.2.1□List of key primary interview participants□       | 53 |
| 2.2.2.2□Key data from primary sources□                    | 53 |
| 2.2.2.3□Breakdown of primaries□                           | 54 |
| 2.3□DATA TRIANGULATION□                                   | 55 |

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|           |   |    |
|-----------|---|----|
| FIGURE 3  | DATA TRIANGULATION  | 55 |
| 2.4       | MARKET SIZE ESTIMATION METHODOLOGY  | 55 |
| 2.4.1     | BOTTOM-UP APPROACH  | 56 |
| FIGURE 4  | MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH                                  | 56 |
| 2.4.2     | TOP-DOWN APPROACH   | 56 |
| FIGURE 5  | MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH                                   | 57 |
| 2.5       | DEMAND-SIDE ANALYSIS  | 58 |
| 2.5.1     | DEMAND-SIDE METRICS   | 58 |
| FIGURE 6  | KEY METRICS CONSIDERED TO ANALYZE AND ASSESS DEMAND FOR DISTRIBUTION AUTOMATION DEVICES | 58 |
| 2.5.1.1   | Assumptions for demand-side analysis  | 58 |
| 2.5.1.2   | Calculations for demand-side analysis   | 58 |
| 2.6       | SUPPLY-SIDE ANALYSIS  | 59 |
| 2.6.1     | SUPPLY-SIDE METRICS   | 59 |
| FIGURE 7  | KEY METRICS CONSIDERED TO ASSESS SUPPLY OF DISTRIBUTION AUTOMATION DEVICES              | 59 |
| FIGURE 8  | DISTRIBUTION AUTOMATION MARKET: SUPPLY-SIDE ANALYSIS                                    | 60 |
| 2.6.1.1   | Assumptions for supply-side analysis  | 60 |
| 2.6.1.2   | Calculations for supply-side analysis   | 60 |
| 2.7       | FORECAST  | 60 |
| 2.8       | RISK ASSESSMENT   | 61 |
| 2.9       | IMPACT OF RECESSION   | 61 |
| 3         | EXECUTIVE SUMMARY   | 62 |
| TABLE 1   | DISTRIBUTION AUTOMATION MARKET SNAPSHOT   | 62 |
| FIGURE 9  | FIELD DEVICES SEGMENT TO DOMINATE MARKET FROM 2024 TO 2029                              | 63 |
| FIGURE 10 | WIRED SEGMENT TO HOLD LARGER MARKET SHARE IN 2024                                       | 63 |
| FIGURE 11 | PUBLIC UTILITIES SEGMENT TO DOMINATE MARKET FROM 2024 TO 2029                           | 64 |
| FIGURE 12 | ASIA PACIFIC HELD LARGEST MARKET SHARE OF GLOBAL DISTRIBUTION AUTOMATION MARKET IN 2023 | 64 |
| 4         | PREMIUM INSIGHTS  | 66 |
| 4.1       | ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN DISTRIBUTION AUTOMATION MARKET                  | 66 |
| FIGURE 13 | NEED FOR IMPROVED GRID INFRASTRUCTURE TO DRIVE MARKET DURING FORECAST PERIOD            | 66 |
| 4.2       | DISTRIBUTION AUTOMATION MARKET, BY REGION   | 66 |
| FIGURE 14 | MIDDLE EAST & AFRICA TO RECORD HIGHEST CAGR DURING FORECAST PERIOD                      | 66 |
| 4.3       | DISTRIBUTION AUTOMATION MARKET, BY OFFERING   | 67 |
| FIGURE 15 | FIELD DEVICES SEGMENT TO DOMINATE MARKET IN 2029  | 67 |
| 4.4       | DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY                             | 67 |
| FIGURE 16 | WIRED SEGMENT TO LEAD MARKET IN 2029  | 67 |
| 4.5       | DISTRIBUTION AUTOMATION MARKET, BY UTILITY  | 67 |
| FIGURE 17 | PUBLIC UTILITIES SEGMENT TO COMMAND MARKET IN 2029                                      | 67 |
| 4.6       | DISTRIBUTION AUTOMATION MARKET IN ASIA PACIFIC, BY OFFERING AND COUNTRY                 | 68 |
| FIGURE 18 | FIELD DEVICES SEGMENT AND CHINA HELD LARGEST MARKET SHARES OF ASIA PACIFIC IN 2023      | 68 |
| 5         | MARKET OVERVIEW   | 69 |
| 5.1       | INTRODUCTION  | 69 |
| 5.2       | MARKET DYNAMICS   | 69 |
| FIGURE 19 | DISTRIBUTION AUTOMATION MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES      | 69 |
| 5.2.1     | DRIVERS   | 70 |
| 5.2.1.1   | Reliance on smart grid networks to meet burgeoning energy demand                        | 70 |
| 5.2.1.2   | Government-led initiatives to ensure universal access to electricity                    | 70 |
| 5.2.2     | RESTRAINTS  | 71 |

|           |   |    |
|-----------|---|----|
| 5.2.2.1   | High upfront and installation costs   | 71 |
| 5.2.2.2   | Issues in existing switchgear modernization   | 71 |
| 5.2.3     | OPPORTUNITIES   | 72 |
| 5.2.3.1   | Rising electrification using renewable energy sources   | 72 |
| 5.2.3.2   | Rapid advancement in AI and IoT technologies  | 73 |
| 5.2.4     | CHALLENGES  | 73 |
| 5.2.4.1   | Increased rate of false data injection attacks  | 73 |
| 5.2.4.2   | Compatibility issues due to lack of standardized communication protocols  | 74 |
| 5.3       | TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES  | 75 |
| FIGURE 20 | TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES  | 75 |
| 5.4       | SUPPLY CHAIN ANALYSIS   | 75 |
| FIGURE 21 | DISTRIBUTION AUTOMATION MARKET: SUPPLY CHAIN ANALYSIS   | 75 |
| 5.4.1     | FIELD DEVICE MANUFACTURERS  | 76 |
| 5.4.2     | SOFTWARE SUPPLIERS  | 76 |
| 5.4.3     | SERVICE PROVIDERS   | 76 |
| 5.4.4     | COMMUNICATION NETWORK PROVIDERS   | 76 |
| 5.4.5     | GRID OPERATORS  | 76 |
| 5.5       | ECOSYSTEM ANALYSIS  | 77 |
| FIGURE 22 | DISTRIBUTION AUTOMATION MARKET: ECOSYSTEM ANALYSIS  | 77 |
| TABLE 2   | ROLES OF COMPANIES IN DISTRIBUTION AUTOMATION ECOSYSTEM   | 78 |
| 5.6       | TECHNOLOGY ANALYSIS   | 78 |
| 5.6.1     | KEY TECHNOLOGIES  | 78 |
| 5.6.1.1   | Distribution automation controllers (DACs)  | 78 |
| 5.6.1.2   | Advanced metering infrastructure (AMI)  | 79 |
| 5.6.1.3   | Distribution management systems (DMSs)  | 79 |
| 5.6.2     | COMPLEMENTARY TECHNOLOGIES  | 79 |
| 5.6.2.1   | Internet of Things (IoT) sensors and devices  | 79 |
| 5.6.2.2   | Cybersecurity solutions   | 80 |
| 5.7       | CASE STUDY ANALYSIS   | 80 |
| 5.7.1     | US DOE GRANTS CHATTANOOGA ELECTRIC POWER BOARD CONTRACT TO DEPLOY SMART GRID TECHNOLOGIES FOR TRANSFORMERS  | 80 |
| 5.7.2     | CHATTANOOGA ELECTRIC POWER BOARD IMPLEMENTS DISTRIBUTION AUTOMATION TECHNOLOGIES FOR RAPID FAULT DETECTION AND ISOLATION IN UNDERGROUND DISTRIBUTION SYSTEM | 81 |
| 5.7.3     | TATA POWER DELHI DISTRIBUTION LIMITED ADOPTS AUTOMATED SOLUTIONS TO IMPROVE EFFICIENCY AND REDUCE AGGREGATE TECHNICAL AND COMMERCIAL LOSSES                 | 82 |
| 5.8       | PATENT ANALYSIS   | 83 |
| FIGURE 23 | NUMBER OF PATENTS APPLIED AND GRANTED, 2013-2023  | 83 |
| 5.8.1     | LIST OF PATENTS   | 83 |
| TABLE 3   | LIST OF MAJOR PATENTS APPLIED/GRANTED, 2019-2023  | 83 |
| 5.9       | TRADE ANALYSIS  | 84 |
| 5.9.1     | HS CODE 853641  | 84 |
| 5.9.1.1   | Export scenario   | 84 |
| TABLE 4   | EXPORT DATA FOR HS CODE 853641-COMPLIANT PRODUCTS, BY COUNTRY, 2019-2023 (USD)  | 85 |
| FIGURE 24 | EXPORT DATA FOR HS CODE 853641-COMPLIANT PRODUCTS, BY COUNTRY 2019-2023 (USD)   | 85 |
| 5.9.1.2   | Import scenario   | 85 |
| TABLE 5   | IMPORT DATA FOR HS CODE 853641-COMPLIANT PRODUCTS, BY COUNTRY, 2019-2023 (USD)  | 86 |
| FIGURE 25 | IMPORT DATA FOR HS CODE 853641-COMPLIANT PRODUCTS, 2019-2023 (USD)  | 86 |

## 5.9.2 HS CODE 853649 87

### 5.9.2.1 Export scenario 87

TABLE 6 EXPORT DATA FOR HS CODE 853649-COMPLIANT PRODUCTS, BY COUNTRY, 2019-2023 (USD) 87

FIGURE 26 EXPORT DATA FOR HS CODE 853649-COMPLIANT PRODUCTS, 2019-2023 (USD) 88

### 5.9.2.2 Import scenario 88

TABLE 7 IMPORT DATA FOR HS CODE 853649-COMPLIANT PRODUCTS, BY COUNTRY, 2019-2023 (USD) 88

FIGURE 27 IMPORT DATA FOR HS CODE 853649-COMPLIANT PRODUCTS, 2019-2023 (USD) 89

## 5.9.3 HS CODE 853650 89

### 5.9.3.1 Export scenario 89

TABLE 8 EXPORT DATA FOR HS CODE 853650-COMPLIANT PRODUCTS, BY COUNTRY, 2019-2023 (USD) 89

FIGURE 28 EXPORT DATA FOR HS CODE 853650-COMPLIANT PRODUCTS, 2019-2023 (USD) 90

### 5.9.3.2 Import scenario 90

TABLE 9 IMPORT DATA FOR HS CODE 853650-COMPLIANT PRODUCTS, BY COUNTRY, 2019-2023 (USD) 90

FIGURE 29 IMPORT DATA FOR HS CODE 853650-COMPLIANT PRODUCTS, 2019-2023 (USD) 91

## 5.9.4 HS CODE 8532 91

### 5.9.4.1 Export scenario 91

TABLE 10 EXPORT DATA FOR HS CODE 8532-COMPLIANT PRODUCTS, BY COUNTRY, 2019-2023 (USD) 91

FIGURE 30 EXPORT DATA FOR HS CODE 8532-COMPLIANT PRODUCTS, 2019-2023 (USD) 92

### 5.9.4.2 Import scenario 92

TABLE 11 IMPORT DATA FOR HS CODE 8532-COMPLIANT PRODUCTS, BY COUNTRY, 2019-2023 92

FIGURE 31 IMPORT DATA FOR HS CODE 8532-COMPLIANT PRODUCTS, 2019-2023 (USD) 93

## 5.10 PRICING ANALYSIS 93

### 5.10.1 AVERAGE SELLING PRICE TREND, BY REGION 94

TABLE 12 AVERAGE SELLING PRICE TREND OF DISTRIBUTION AUTOMATION FIELD DEVICES, BY REGION, 2019-2029 (USD) 94

FIGURE 32 AVERAGE SELLING PRICE TREND OF DISTRIBUTION AUTOMATION FIELD DEVICES, BY REGION, 2019-2029 (USD) 94

### 5.10.2 INDICATIVE PRICING TREND, BY TYPE 94

TABLE 13 INDICATIVE PRICING TREND OF DISTRIBUTION AUTOMATION FIELD DEVICES, BY TYPE, 2019-2023 (USD) 94

FIGURE 33 INDICATIVE SELLING PRICE TREND OF DISTRIBUTION AUTOMATION FIELD DEVICES, BY TYPE, 2019-2029 (USD) 95

## 5.11 KEY CONFERENCES AND EVENTS, 2024-2025 95

TABLE 14 DISTRIBUTION AUTOMATION MARKET: LIST OF KEY CONFERENCES AND EVENTS, 2024-2025 95

## 5.12 TARIFFS AND REGULATORY LANDSCAPE 96

### 5.12.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 96

TABLE 15 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 96

TABLE 16 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 97

TABLE 17 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 97

TABLE 18 SOUTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 98

TABLE 19 MIDDLE EAST & AFRICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 98

### 5.12.2 REGULATIONS 98

TABLE 20 DISTRIBUTION AUTOMATION MARKET: REGULATIONS 98

## 5.13 PORTER'S FIVE FORCES ANALYSIS 100

FIGURE 34 DISTRIBUTION AUTOMATION MARKET: PORTER'S FIVE FORCES ANALYSIS 100

TABLE 21 DISTRIBUTION AUTOMATION MARKET: PORTER'S FIVE FORCES ANALYSIS 100

### 5.13.1 THREAT OF SUBSTITUTES 101

### 5.13.2 BARGAINING POWER OF SUPPLIERS 101

### 5.13.3 BARGAINING POWER OF BUYERS 101

### 5.13.4 THREAT OF NEW ENTRANTS 101

### 5.13.5 INTENSITY OF COMPETITIVE RIVALRY 102

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|         |  |  |
|---------|--|--|
| 5.14    | KEY STAKEHOLDERS AND BUYING CRITERIA   | 102  |
| 5.14.1  | KEY STAKEHOLDERS IN BUYING PROCESS   | 102  |
|         | FIGURE 35  | INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY UTILITY  |
|         | TABLE 22   | INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS, BY UTILITY (%)  |
| 5.14.2  | BUYING CRITERIA  | 103  |
|         | FIGURE 36  | KEY BUYING CRITERIA, BY UTILITY  |
|         | TABLE 23   | KEY BUYING CRITERIA, BY UTILITY  |
| 5.15    | INVESTMENT AND FUNDING SCENARIO  | 104  |
|         | FIGURE 37  | INVESTMENT AND FUNDING SCENARIO  |
| 6       | DISTRIBUTION AUTOMATION MARKET, BY OFFERING  | 105  |
| 6.1     | INTRODUCTION   | 106  |
|         | FIGURE 38  | DISTRIBUTION AUTOMATION MARKET, BY OFFERING  |
|         | TABLE 24   | DISTRIBUTION AUTOMATION MARKET, BY OFFERING, 2019-2023 (USD MILLION)                                       |
|         | TABLE 25   | DISTRIBUTION AUTOMATION MARKET, BY OFFERING, 2024-2029 (USD MILLION)                                       |
| 6.2     | FIELD DEVICES  | 107  |
|         | TABLE 26   | APPLICATION OF DIFFERENT FIELD DEVICES   |
|         | TABLE 27   | FIELD DEVICES: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                          |
|         | TABLE 28   | FIELD DEVICES: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                          |
|         | TABLE 29   | FIELD DEVICES: DISTRIBUTION AUTOMATION MARKET, BY TYPE, 2019-2023 (USD MILLION)                            |
|         | TABLE 30   | FIELD DEVICES: DISTRIBUTION AUTOMATION MARKET, BY TYPE, 2024-2029 (USD MILLION)                            |
|         | TABLE 31   | FIELD DEVICES: DISTRIBUTION AUTOMATION MARKET, BY TYPE, 2019-2023 (THOUSAND UNITS)                         |
|         | TABLE 32   | FIELD DEVICES: DISTRIBUTION AUTOMATION MARKET, BY TYPE, 2024-2029 (THOUSAND UNITS)                         |
| 6.2.1   | REMOTE FAULT INDICATORS  | 110  |
| 6.2.1.1 | Ability to offer continuous monitoring and fault diagnosis from main station to boost demand | 110  |
|         | TABLE 33   | REMOTE FAULT INDICATORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                |
|         | TABLE 34   | REMOTE FAULT INDICATORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                |
|         | TABLE 35   | REMOTE FAULT INDICATORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (THOUSAND UNITS)             |
|         | TABLE 36   | REMOTE FAULT INDICATORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (THOUSAND UNITS)             |
| 6.2.2   | SMART RELAYS   | 112  |
| 6.2.2.1 | Effective management of voltage and power distribution to drive market                       | 112  |
|         | TABLE 37   | SMART RELAYS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                           |
|         | TABLE 38   | SMART RELAYS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                           |
|         | TABLE 39   | SMART RELAYS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (THOUSAND UNITS)                        |
|         | TABLE 40   | SMART RELAYS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (THOUSAND UNITS)                        |
| 6.2.3   | AUTOMATED FEEDER SWITCHES/RECLOSERS  | 114  |
| 6.2.3.1 | Ability to reduce outage time and enhance grid efficiency to fuel market growth              | 114  |
|         | TABLE 41   | AUTOMATED FEEDER SWITCHES/RECLOSERS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)    |
|         | TABLE 42   | AUTOMATED FEEDER SWITCHES/RECLOSERS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)    |
|         | TABLE 43   | AUTOMATED FEEDER SWITCHES/RECLOSERS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (THOUSAND UNITS) |
|         | TABLE 44   | AUTOMATED FEEDER SWITCHES/RECLOSERS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (THOUSAND UNITS) |
| 6.2.4   | AUTOMATED CAPACITORS   | 115  |
| 6.2.4.1 | Ease of installation to boost demand   | 115  |
|         | TABLE 45   | AUTOMATED CAPACITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                   |

|           |  |     |
|-----------|--|-----|
| TABLE 46  | AUTOMATED CAPACITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                     | 116 |
| TABLE 47  | AUTOMATED CAPACITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (THOUSAND UNITS)                  | 116 |
| TABLE 48  | AUTOMATED CAPACITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (THOUSAND UNITS)                  | 117 |
| 6.2.5     | AUTOMATED VOLTAGE REGULATORS   | 117 |
| 6.2.5.1   | Increasing need to control voltage levels and prevent disruptions in electricity flow to drive market growth | 117 |
| TABLE 49  | AUTOMATED VOLTAGE REGULATORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)             | 118 |
| TABLE 50  | AUTOMATED VOLTAGE REGULATORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)             | 118 |
| TABLE 51  | AUTOMATED VOLTAGE REGULATORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (THOUSAND UNITS)          | 118 |
| TABLE 52  | AUTOMATED VOLTAGE REGULATORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (THOUSAND UNITS)          | 119 |
| 6.2.6     | TRANSFORMER MONITORS   | 119 |
| 6.2.6.1   | Growing need to safeguard and regulate transformers to boost demand  | 119 |
| TABLE 53  | TRANSFORMER MONITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                     | 119 |
| TABLE 54  | TRANSFORMER MONITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                     | 120 |
| TABLE 55  | TRANSFORMER MONITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (THOUSAND UNITS)                  | 120 |
| TABLE 56  | TRANSFORMER MONITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (THOUSAND UNITS)                  | 120 |
| 6.2.7     | FEEDER MONITORS  | 121 |
| 6.2.7.1   | Rising need to optimize electricity distribution to propel market growth                                     | 121 |
| TABLE 57  | FEEDER MONITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                          | 121 |
| TABLE 58  | FEEDER MONITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                          | 121 |
| TABLE 59  | FEEDER MONITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (THOUSAND UNITS)                       | 122 |
| TABLE 60  | FEEDER MONITORS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (THOUSAND UNITS)                       | 122 |
| 6.2.8     | REMOTE TERMINAL UNITS  | 122 |
| 6.2.8.1   | Growing implementation in substations for intelligent I/O collection and processing to drive demand          | 122 |
| TABLE 61  | REMOTE TERMINAL UNITS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                    | 123 |
| TABLE 62  | REMOTE TERMINAL UNITS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                    | 123 |
| TABLE 63  | REMOTE TERMINAL UNITS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (THOUSAND UNITS)                 | 123 |
| TABLE 64  | REMOTE TERMINAL UNITS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (THOUSAND UNITS)                 | 124 |
| 6.3       | SOFTWARE   | 124 |
| 6.3.1     | GROWING NEED TO INCREASE RELIABILITY AND EFFICIENCY OF GRID OPERATIONS TO BOOST MARKET                       | 124 |
| TABLE 65  | SOFTWARE: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                                 | 125 |
| TABLE 66  | SOFTWARE: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                                 | 125 |
| 6.4       | SERVICES   | 125 |
| 6.4.1     | RISING NEED TO DEVELOP SYSTEM ARCHITECTURE AND HARDWARE AND SOFTWARE DESIGNS TO DRIVE MARKET                 | 125 |
| TABLE 67  | SERVICES: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                                 | 126 |
| TABLE 68  | SERVICES: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                                 | 126 |
| 7         | DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY  | 127 |
| 7.1       | INTRODUCTION   | 128 |
| FIGURE 39 | DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2023  | 128 |
| TABLE 69  | DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)                         | 128 |
| TABLE 70  | DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)                         | 129 |
| 7.2       | WIRED  | 129 |
| TABLE 71  | WIRED: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                                    | 129 |
| TABLE 72  | WIRED: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                                    | 130 |
| TABLE 73  | WIRED: DISTRIBUTION AUTOMATION MARKET, BY TYPE, 2019-2023 (USD MILLION)                                      | 130 |
| TABLE 74  | WIRED: DISTRIBUTION AUTOMATION MARKET, BY TYPE, 2024-2029 (USD MILLION)                                      | 130 |



7.2.1 FIBER OPTICS 130

7.2.1.1 Growing implementation in long-distance and high-performance data networks to drive market 130

TABLE 75 FIBER OPTICS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION) 131

TABLE 76 FIBER OPTICS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION) 131

7.2.2 ETHERNET 131

7.2.2.1 Suitability for Home Area Networks (HANS) for easy communication between smart meters and home central systems to drive market 131

TABLE 77 ETHERNET: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION) 132

TABLE 78 ETHERNET: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION) 132

7.2.3 POWERLINE CARRIER 132

7.2.3.1 Ability to operate within low-voltage of electrical power distribution network to boost demand 132

TABLE 79 POWERLINE CARRIER: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION) 133

TABLE 80 POWERLINE CARRIER: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION) 133

7.2.4 IP 133

7.2.4.1 Cost-effectiveness and security for data transfer to boost market 133

TABLE 81 IP: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION) 134

TABLE 82 IP: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION) 134

7.3 WIRELESS 134

TABLE 83 WIRELESS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION) 135

TABLE 84 WIRELESS: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION) 135

TABLE 85 WIRELESS: DISTRIBUTION AUTOMATION MARKET, BY TYPE, 2019-2023 (USD MILLION) 135

TABLE 86 WIRELESS: DISTRIBUTION AUTOMATION MARKET SIZE, BY TYPE, 2024-2029 (USD MILLION) 136

7.3.1 RADIOFREQUENCY MESH 136

7.3.1.1 Ability to offer efficient network management and high data security to support utility needs of smart grids to accelerate demand 136

TABLE 87 RADIO FREQUENCY MESH: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION) 136

TABLE 88 RADIO FREQUENCY MESH: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION) 137

7.3.2 CELLULAR NETWORK 137

7.3.2.1 Growing investments in 5G networks to drive market 137

TABLE 89 CELLULAR NETWORK: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION) 137

TABLE 90 CELLULAR NETWORK: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION) 138

7.3.3 WIMAX 138

7.3.3.1 Ability to support high-speed data transfer over long distances to propel market 138

TABLE 91 WIMAX: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION) 138

TABLE 92 WIMAX: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION) 139

8 DISTRIBUTION AUTOMATION MARKET, BY UTILITY 140

8.1 INTRODUCTION 141

FIGURE 40 DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2023 141

TABLE 93 DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION) 141

TABLE 94 DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION) 141

8.2 PUBLIC UTILITIES 142

8.2.1 GOVERNMENT-LED INITIATIVES TO ESTABLISH PUBLIC UTILITIES TO BOOST DEMAND 142

TABLE 95 PUBLIC UTILITIES: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION) 142

TABLE 96 PUBLIC UTILITIES: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION) 143

8.3 PRIVATE UTILITIES 143

8.3.1 INCREASING PRIVATE INVESTMENTS IN ADVANCED METERING INFRASTRUCTURE, AI, AND SMART GRID INFRASTRUCTURE TO DRIVE MARKET 143

|           |   |     |
|-----------|---|-----|
| TABLE 97  | PRIVATE UTILITIES: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)               | 143 |
| TABLE 98  | PRIVATE UTILITIES: DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)               | 144 |
| 9         | DISTRIBUTION AUTOMATION MARKET, BY REGION   | 145 |
| 9.1       | INTRODUCTION  | 146 |
| FIGURE 41 | MIDDLE EAST & AFRICA TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD                                 | 146 |
| FIGURE 42 | DISTRIBUTION AUTOMATION MARKET, BY REGION, 2023   | 146 |
| TABLE 99  | DISTRIBUTION AUTOMATION MARKET, BY REGION, 2019-2023 (USD MILLION)                                  | 147 |
| TABLE 100 | DISTRIBUTION AUTOMATION MARKET, BY REGION, 2024-2029 (USD MILLION)                                  | 147 |
| 9.2       | NORTH AMERICA   | 147 |
| FIGURE 43 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET SNAPSHOT  | 148 |
| 9.2.1     | IMPACT OF RECESSION ON DISTRIBUTION AUTOMATION MARKET IN NORTH AMERICA                              | 148 |
| TABLE 101 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY OFFERING, 2019-2023 (USD MILLION)                 | 148 |
| TABLE 102 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY OFFERING, 2024-2029 (USD MILLION)                 | 149 |
| TABLE 103 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2019-2023 (USD MILLION)            | 149 |
| TABLE 104 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2024-2029 (USD MILLION)            | 149 |
| TABLE 105 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2019-2023 (THOUSAND UNITS)         | 150 |
| TABLE 106 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2024-2029 (THOUSAND UNITS)         | 150 |
| TABLE 107 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION) | 150 |
| TABLE 108 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION) | 151 |
| TABLE 109 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY WIRED, 2019-2023 (USD MILLION)                    | 151 |
| TABLE 110 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY WIRED, 2024-2029 (USD MILLION)                    | 151 |
| TABLE 111 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY WIRELESS, 2019-2023 (USD MILLION)                 | 151 |
| TABLE 112 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY WIRELESS, 2024-2029 (USD MILLION)                 | 152 |
| TABLE 113 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)                  | 152 |
| TABLE 114 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)                  | 152 |
| TABLE 115 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY COUNTRY, 2019-2023 (USD MILLION)                  | 152 |
| TABLE 116 | NORTH AMERICA: DISTRIBUTION AUTOMATION MARKET, BY COUNTRY, 2024-2029 (USD MILLION)                  | 153 |
| 9.2.2     | US  | 153 |
| 9.2.2.1   | Government-led investments to boost electric grid reliability to drive market                       | 153 |
| TABLE 117 | US: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)            | 153 |
| TABLE 118 | US: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)            | 153 |
| TABLE 119 | US: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)                             | 154 |
| TABLE 120 | US: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)                             | 154 |
| 9.2.3     | CANADA  | 154 |
| 9.2.3.1   | Growing electricity demand with rising population to fuel market growth                             | 154 |
| TABLE 121 | CANADA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)        | 155 |
| TABLE 122 | CANADA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)        | 155 |
| TABLE 123 | CANADA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)                         | 155 |
| TABLE 124 | CANADA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)                         | 155 |
| 9.2.4     | MEXICO  | 155 |
| 9.2.4.1   | Increasing need for real-time monitoring of electricity usage to drive market                       | 155 |
| TABLE 125 | MEXICO: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)        | 156 |
| TABLE 126 | MEXICO: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)        | 156 |
| TABLE 127 | MEXICO: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)                         | 156 |
| TABLE 128 | MEXICO: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)                         | 156 |

### 9.3 ASIA PACIFIC 157

#### FIGURE 44 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET SNAPSHOT 158

##### 9.3.1 IMPACT OF RECESSION ON DISTRIBUTION AUTOMATION MARKET IN ASIA PACIFIC 158

TABLE 129 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY OFFERING, 2019-2023 (USD MILLION) 159

TABLE 130 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY OFFERING, 2024-2029 (USD MILLION) 159

TABLE 131 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2019-2023 (USD MILLION) 159

TABLE 132 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2024-2029 (USD MILLION) 160

TABLE 133 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2019-2023 (THOUSAND UNITS) 160

TABLE 134 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2024-2029 (THOUSAND UNITS) 161

TABLE 135 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION) 161

TABLE 136 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION) 161

TABLE 137 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY WIRED, 2019-2023 (USD MILLION) 162

TABLE 138 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY WIRED, 2024-2029 (USD MILLION) 162

TABLE 139 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY WIRELESS, 2019-2023 (USD MILLION) 162

TABLE 140 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY WIRELESS, 2024-2029 (USD MILLION) 162

TABLE 141 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION) 163

TABLE 142 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION) 163

TABLE 143 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY COUNTRY, 2019-2023 (USD MILLION) 163

TABLE 144 ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY COUNTRY, 2024-2029 (USD MILLION) 164

##### 9.3.2 CHINA 164

9.3.2.1 Increasing investments in smart grid infrastructure projects to achieve carbon-neutral energy targets to boost demand 164

TABLE 145 CHINA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION) 165

TABLE 146 CHINA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION) 165

TABLE 147 CHINA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION) 165

TABLE 148 CHINA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION) 165

##### 9.3.3 JAPAN 166

9.3.3.1 Rising emphasis on developing low-carbon society to drive market 166

TABLE 149 JAPAN: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION) 166

TABLE 150 JAPAN: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION) 166

TABLE 151 JAPAN: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION) 167

TABLE 152 JAPAN: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION) 167

##### 9.3.4 INDIA 167

9.3.4.1 Growing focus on smart city initiatives to fuel market growth 167

TABLE 153 INDIA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION) 168

TABLE 154 INDIA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION) 168

TABLE 155 INDIA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION) 168

TABLE 156 INDIA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION) 168

##### 9.3.5 AUSTRALIA 168

9.3.5.1 Increasing need to replace aging grid infrastructure to ensure high efficiency of power plants to boost market growth 168

TABLE 157 AUSTRALIA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION) 169

TABLE 158 AUSTRALIA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION) 169

TABLE 159 AUSTRALIA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION) 169

TABLE 160 AUSTRALIA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION) 170

##### 9.3.6 SOUTH KOREA 170

9.3.6.1 Growing investment in renewable power generation to boost market growth 170

TABLE 161 SOUTH KOREA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION) 170

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TABLE 162□SOUTH KOREA: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)□170

TABLE 163□SOUTH KOREA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)□170

TABLE 164□SOUTH KOREA: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)□171

### 9.3.7□REST OF ASIA PACIFIC□171

TABLE 165□REST OF ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)□172

TABLE 166□REST OF ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)□172

TABLE 167□REST OF ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)□172

TABLE 168□REST OF ASIA PACIFIC: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)□172

### 9.4□EUROPE□173

#### 9.4.1□IMPACT OF RECESSION ON DISTRIBUTION AUTOMATION MARKET IN EUROPE□173

TABLE 169□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY OFFERING, 2019-2023 (USD MILLION)□173

TABLE 170□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY OFFERING, 2024-2029 (USD MILLION)□174

TABLE 171□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2019-2023 (USD MILLION)□174

TABLE 172□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2024-2029 (USD MILLION)□174

TABLE 173□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2019-2023 (THOUSAND UNITS)□175

TABLE 174□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY FIELD DEVICES, 2024-2029 (THOUSAND UNITS)□175

TABLE 175□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)□175

TABLE 176□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)□176

TABLE 177□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY WIRED, 2019-2023 (USD MILLION)□176

TABLE 178□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY WIRED, 2024-2029 (USD MILLION)□176

TABLE 179□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY WIRELESS, 2019-2023 (USD MILLION)□176

TABLE 180□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY WIRELESS, 2024-2029 (USD MILLION)□177

TABLE 181□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)□177

TABLE 182□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)□177

TABLE 183□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY COUNTRY, 2019-2023 (USD MILLION)□177

TABLE 184□EUROPE: DISTRIBUTION AUTOMATION MARKET, BY COUNTRY, 2024-2029 (USD MILLION)□178

#### 9.4.2□GERMANY□178

##### 9.4.2.1□Growing focus on modernizing grids to boost demand□178

TABLE 185□GERMANY: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)□178

TABLE 186□GERMANY: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)□179

TABLE 187□GERMANY: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)□179

TABLE 188□GERMANY: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)□179

#### 9.4.3□FRANCE□179

##### 9.4.3.1□Increasing digitalization of electrical and smart grids to drive market□179

TABLE 189□FRANCE: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)□180

TABLE 190□FRANCE: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)□180

TABLE 191□FRANCE: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)□180

TABLE 192□FRANCE: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)□180

#### 9.4.4□ITALY□181

##### 9.4.4.1□Deployment of IoT and digital twins to support asset management to create lucrative opportunities for market players□181

TABLE 193□ITALY: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)□181

TABLE 194□ITALY: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)□181

TABLE 195□ITALY: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)□182

TABLE 196□ITALY: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)□182

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9.4.5UK182

9.4.5.1Growing collaborations between state-controlled utilities to enhance resilience of grid infrastructure to fuel market growth182

TABLE 197UK: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)182

TABLE 198UK: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)183

TABLE 199UK: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)183

TABLE 200UK: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)183

9.4.6REST OF EUROPE183

TABLE 201REST OF EUROPE: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2019-2023 (USD MILLION)184

TABLE 202REST OF EUROPE: DISTRIBUTION AUTOMATION MARKET, BY COMMUNICATION TECHNOLOGY, 2024-2029 (USD MILLION)184

TABLE 203REST OF EUROPE: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2019-2023 (USD MILLION)184

TABLE 204REST OF EUROPE: DISTRIBUTION AUTOMATION MARKET, BY UTILITY, 2024-2029 (USD MILLION)185

**Distribution Automation Market by Offering (Field Devices, Software, Services),  
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