

Power SCADA Market by Architecture (Hardware, Software, Services) Component (Remote Terminal Unit, Programmable Logic Controller, Human Machine Interface, Communication Systems Protection relays), End User and Region - Global Forecast to 2028

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Abstracts

The global market for power SCADA system is poised for substantial growth, with a projected trajectory reaching USD 2.9 billion by the year 2028. This represents a noteworthy increase from the estimated value of USD 2.1 billion in 2023, reflecting a steady Compound Annual Growth Rate (CAGR) of 7.1% over the period spanning from 2023 to 2028. The power SCADA (Supervisory Control and Data Acquisition) market is witnessing substantial growth, driven by key factors such as the heightened focus on modernizing and digitizing power infrastructure. This emphasis stems from the imperative for utilities and energy providers to improve operational efficiency and reliability, making the adoption of SCADA systems crucial. The increasing incorporation of renewable energy sources, like solar and wind, into power grids further stimulates the demand for advanced SCADA solutions. The market is also propelled by the growing intricacies of power networks, necessitating real-time monitoring and control capabilities. The integration of smart grid technologies, the need for predictive maintenance capabilities, and the broader trend toward Industry 4.0 contribute significantly to the market's expansion. Additionally, the rising prominence of data analytics and cloud-based solutions in SCADA systems provides organizations with robust and scalable options to effectively manage and optimize their power infrastructure. In summary, the flourishing power SCADA market is a result of the compelling needs for modernization, renewable energy integration, grid complexity, smart technology adoption, and the increasing reliance on data-driven insights in the power sector.

“Hardware segment, by architecture, to be fastest growing market from 2023 to 2028.”

The hardware segment, categorized by architecture, is poised to emerge as the fastest-growing market within the power SCADA landscape from 2023 to 2028. This accelerated growth is attributed to the pivotal role played by hardware components, including programmable logic controllers (PLCs), remote terminal units (RTUs), and communication devices, in the core functionalities of supervisory control and data acquisition (SCADA) systems. The increasing sophistication of power networks, coupled with the demand for robust and scalable solutions, is driving a continuous adoption of advanced hardware technologies. As organizations prioritize investments in resilient and high-performance hardware to meet the evolving demands of the power sector, the hardware segment is expected to experience rapid expansion. Furthermore, the prevalent trend of major market players engaging in vertical integration and manufacturing complete SCADA systems in-house contributes to the prominence of the hardware segment, ensuring its status as the fastest-growing market within the power SCADA architecture.

“Remote Terminal Units (RTU), by component, to be the largest market from 2023 to 2028.”

The Remote Terminal Units (RTU) segment is anticipated to dominate the power SCADA market from 2023 to 2028 due to its pivotal role in facilitating real-time data collection and control at remote sites within power networks. As the power sector experiences increasing complexity, driven by factors such as distributed energy resources and smart grid initiatives, RTUs serve as essential components bridging the gap between the central SCADA system and diverse elements dispersed across the network. Their crucial functions in interfacing with field devices, processing real-time data, and facilitating communication with the central system make RTUs integral for ensuring the reliability and efficiency of power SCADA systems. The rising adoption of advanced technologies, including IoT devices and smart sensors, further underscores the significance of RTUs, solidifying their position as the largest market segment within the power SCADA landscape.

“Asia Pacific to be largest and fastest growing region in power SCADA market.”

The Asia-Pacific region is poised to emerge as the largest and fastest-growing region in the power SCADA market, propelled by a convergence of dynamic factors. Rapid industrialization, extensive urbanization, and robust investments in power infrastructure

across key economies such as China, India, Japan, and South Korea are driving a substantial surge in demand for advanced SCADA solutions. Governments in the region are actively promoting smart grid initiatives and digital transformation in the power sector, fostering a conducive environment for SCADA adoption. The presence of major economies with significant technological capabilities, coupled with a proactive approach towards embracing advanced technologies, positions Asia-Pacific at the forefront of power SCADA adoption. Additionally, the escalating population and surging energy consumption in the region further underscore the necessity for reliable and optimized power distribution, reinforcing the prevalence and growth of power SCADA systems across diverse applications.

Breakdown of Primaries:

Important qualitative and quantitative data were gathered and verified, as well as future market prospects, through in-depth interviews with subject-matter experts, C-level executives of major market players, industry consultants, and other experts. The following is how the main interviews were dispersed:

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

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

By Region: North America–39%, Europe–24%, Asia Pacific–22%, Middle East & Africa–6%, and South America–9%

Note: “Others” include sales managers, engineers, and regional managers

The tiers of the companies are defined based on their total revenue as of 2022: Tier 1: >USD 1 billion, Tier 2: USD 500 million–1 billion, and Tier 3:

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 INCLUSIONS AND EXCLUSIONS

1.3.1 POWER SCADA MARKET, BY ARCHITECTURE: INCLUSIONS AND EXCLUSIONS

1.3.2 POWER SCADA MARKET, BY END-USER INDUSTRY: INCLUSIONS AND EXCLUSIONS

1.4 STUDY SCOPE

1.4.1 MARKETS COVERED

1.4.2 REGIONAL SCOPE

1.4.3 YEARS CONSIDERED

1.4.4 CURRENCY CONSIDERED

1.5 LIMITATIONS

1.6 STAKEHOLDERS

1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 POWER SCADA MARKET: RESEARCH DESIGN

2.2 MARKET BREAKDOWN AND DATA TRIANGULATION

FIGURE 2 DATA TRIANGULATION

2.2.1 SECONDARY DATA

2.2.1.1 Key secondary sources

2.2.2 PRIMARY DATA

2.2.2.1 Key industry insights

2.2.2.2 Breakdown of primaries

2.3 SCOPE

2.4 MARKET SIZE ESTIMATION

2.4.1 BOTTOM-UP APPROACH

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH

2.4.2 TOP-DOWN APPROACH

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH

2.4.3 DEMAND-SIDE ANALYSIS

FIGURE 5 MAIN METRICS CONSIDERED TO ANALYZE AND ASSESS DEMAND

FOR POWER SCADA SOLUTIONS

2.4.3.1 Calculations for demand-side analysis

2.4.3.2 Assumptions for demand-side analysis

2.4.4 SUPPLY-SIDE ANALYSIS

FIGURE 6 KEY METRICS CONSIDERED TO ASSESS SUPPLY OF POWER SCADA SYSTEMS

FIGURE 7 POWER SCADA MARKET: SUPPLY-SIDE ANALYSIS

2.4.4.1 Calculations for supply-side analysis

2.4.4.2 Assumptions for supply-side analysis

2.4.4.3 Forecast

2.5 IMPACT OF RECESSION

3 EXECUTIVE SUMMARY

TABLE 1 POWER SCADA MARKET SNAPSHOT

FIGURE 8 ASIA PACIFIC DOMINATED POWER SCADA MARKET IN 2022

FIGURE 9 HARDWARE SEGMENT TO DOMINATE POWER SCADA MARKET DURING FORECAST PERIOD

FIGURE 10 REMOTE TERMINAL UNITS (RTUS) SEGMENT TO LEAD POWER SCADA MARKET DURING FORECAST PERIOD

FIGURE 11 OIL & GAS SEGMENT TO DOMINATE POWER SCADA MARKET DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN POWER SCADA MARKET

FIGURE 12 INCREASING INVESTMENTS IN AUTOMATION OF SUBSTATIONS TO CREATE LUCRATIVE OPPORTUNITIES FOR MARKET PLAYERS

4.2 POWER SCADA MARKET, BY REGION

FIGURE 13 ASIA PACIFIC POWER SCADA MARKET TO REGISTER HIGHEST CAGR FROM 2023 TO 2028

4.3 ASIA PACIFIC POWER SCADA MARKET, BY END-USER INDUSTRY AND COUNTRY

FIGURE 14 OIL & GAS SEGMENT AND CHINA HELD LARGEST SHARES OF ASIA PACIFIC POWER SCADA MARKET IN 2022

4.4 POWER SCADA MARKET, BY COMPONENT

FIGURE 15 REMOTE TERMINAL UNITS SEGMENT TO ACCOUNT FOR LARGEST SHARE OF POWER SCADA MARKET IN 2028

4.5 POWER SCADA MARKET, BY ARCHITECTURE

FIGURE 16 HARDWARE SEGMENT TO ACCOUNT FOR LARGEST SHARE OF POWER SCADA MARKET IN 2028

4.6 POWER SCADA MARKET, BY END-USER INDUSTRY

FIGURE 17 OIL & GAS SEGMENT TO ACCOUNT FOR LARGEST SHARE OF POWER SCADA MARKET IN 2028

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 18 POWER SCADA MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.2.1 DRIVERS

5.2.1.1 Growing adoption of Industry 4.0 principles in various sectors

FIGURE 19 GLOBAL ELECTRICITY INVESTMENTS AND SHARE OF DIGITAL GRID INFRASTRUCTURE, 2015–2023

5.2.1.2 Increasing focus on managing carbon footprint

5.2.1.3 Rising use of power SCADA systems in oil & gas industry

5.2.2 RESTRAINTS

5.2.2.1 High costs associated with initial setup, maintenance, and upgrade of power SCADA solutions

5.2.2.2 Risks of cyberattacks

FIGURE 20 ENTRY POINTS FOR CYBERATTACKS

5.2.3 OPPORTUNITIES

5.2.3.1 Convergence of power SCADA systems and wireless sensor networks (WSNs)

FIGURE 21 GLOBAL POWER CONSUMPTION BY ALL ICT DEVICES, 2008–2023

5.2.3.2 Shift from on-premises to cloud-based power SCADA systems

5.2.3.3 Rise in use of big data analytics and 5G technology in industrial sector

5.2.4 CHALLENGES

5.2.4.1 Inadequate data storage and management concerns

5.3 PRICING ANALYSIS

5.3.1 AVERAGE SELLING PRICE (ASP) OF POWER SCADA SOLUTIONS, BY COMPONENT

TABLE 2 AVERAGE SELLING PRICE (ASP) OF POWER SCADA SOLUTIONS

TABLE 3 AVERAGE SELLING PRICE (ASP) OF REMOTE TERMINAL UNITS (RTUS)

TABLE 4 AVERAGE SELLING PRICE (ASP) OF PROGRAMMABLE LOGIC CONTROLLERS (PLCS)

5.4 ECOSYSTEM/MARKET MAP

FIGURE 22 POWER SCADA MARKET MAP

TABLE 5 COMPANIES AND THEIR ROLES IN POWER SCADA ECOSYSTEM

5.5 VALUE CHAIN ANALYSIS

FIGURE 23 POWER SCADA MARKET: VALUE CHAIN ANALYSIS

5.5.1 RAW MATERIAL PROVIDERS/SUPPLIERS

5.5.2 COMPONENT MANUFACTURERS

5.5.3 POWER SCADA MANUFACTURERS/ASSEMBLERS

5.5.4 DISTRIBUTORS (BUYERS)/END USERS AND POST-SALES SERVICE PROVIDERS

5.6 TECHNOLOGY ANALYSIS

5.6.1 POWER SCADA BASED ON DIFFERENT TECHNOLOGIES

5.7 TARIFF, STANDARD, AND REGULATORY LANDSCAPE

5.7.1 TARIFF ANALYSIS

TABLE 6 IMPORT TARIFF FOR HS 853710-COMPLIANT PRODUCTS (BOARDS, CABINETS, AND SIMILAR COMBINATIONS OF APPARATUS FOR ELECTRIC CONTROL OR DISTRIBUTION OF ELECTRICITY), BY COUNTRY, 2022

5.7.2 REGULATIONS

TABLE 7 REGULATIONS RELATED TO POWER SCADA SYSTEMS

5.7.3 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS RELATED TO POWER SCADA MARKET

TABLE 8 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 9 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 10 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 11 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

5.7.4 STANDARDS

TABLE 12 STANDARDS RELATED TO POWER SCADA SYSTEMS

5.8 PATENT ANALYSIS

FIGURE 24 MAJOR PATENTS RELATED TO POWER SCADA SYSTEMS

TABLE 13 POWER SCADA MARKET: INNOVATIONS AND PATENT REGISTRATIONS

5.9 PORTER'S FIVE FORCES ANALYSIS

FIGURE 25 POWER SCADA MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 14 POWER SCADA MARKET: PORTER'S FIVE FORCES ANALYSIS

5.9.1 THREAT OF SUBSTITUTES

5.9.2 BARGAINING POWER OF SUPPLIERS

5.9.3 BARGAINING POWER OF BUYERS

5.9.4 THREAT OF NEW ENTRANTS

5.9.5 INTENSITY OF COMPETITIVE RIVALRY

5.10 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

FIGURE 26 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

5.11 CASE STUDY ANALYSIS

5.11.1 SIEMENS PROVIDED TIA SOLUTIONS DESIGNED IN COLLABORATION WITH TESCO FOR MUNICIPAL WATER MANAGEMENT SYSTEM

5.11.2 SIEMENS INTEGRATOR HELPED SMALL TOWN MODERNIZE WATER SUPPLY WHILE CUTTING DOWN COSTS

5.11.3 ABB PROVIDED CLOUD-BASED SCADA SYSTEM DRIVEN BY ABB ABILITY GENIX PLATFORM TO ALTO MAIPO HYDROPOWER PLANT

6 POWER SCADA MARKET, BY ARCHITECTURE

6.1 INTRODUCTION

FIGURE 27 HARDWARE SEGMENT DOMINATED POWER SCADA MARKET IN 2022

TABLE 15 POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 16 POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

6.2 HARDWARE

6.2.1 USE OF HARDWARE COMPONENTS TO PERFORM FUNCTIONS LIKE FIELD DATA COLLECTION TO DRIVE MARKET

TABLE 17 HARDWARE: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 18 HARDWARE: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

6.3 SOFTWARE

6.3.1 USE OF SOFTWARE APPLICATIONS TO ANALYZE DATA AND IDENTIFY PRECISE LOCATIONS FOR REPAIR TO DRIVE MARKET

TABLE 19 SOFTWARE: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 20 SOFTWARE: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

6.4 SERVICES

6.4.1 RISING DEMAND FOR DESIGNING, INSTALLATION, TRAINING, AND MAINTENANCE SERVICES OF POWER SCADA SYSTEMS TO FUEL MARKET GROWTH

TABLE 21 SERVICES: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 22 SERVICES: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

7 POWER SCADA MARKET, BY END-USER INDUSTRY

7.1 INTRODUCTION

FIGURE 28 OIL & GAS SEGMENT TO HOLD LARGEST SHARE OF POWER SCADA MARKET IN 2023

TABLE 23 POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 24 POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

7.2 OIL & GAS

7.2.1 GROWING USE OF POWER SCADA SYSTEMS IN OIL & GAS INDUSTRY TO OPTIMIZE PRODUCTION TO DRIVE MARKET

TABLE 25 OIL & GAS: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 26 OIL & GAS: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

7.3 WATER & WASTEWATER TREATMENT

7.3.1 RISING NEED TO MINIMIZE LOSSES DUE TO LEAKAGES TO FUEL DEMAND

TABLE 27 WATER & WASTEWATER TREATMENT: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 28 WATER & WASTEWATER TREATMENT: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

7.4 METALS & MINING

7.4.1 NEED TO ENSURE OPERATIONAL SAFETY AND ACHIEVE CONSISTENT EFFICIENCY TO FUEL DEMAND

TABLE 29 METALS & MINING: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 30 METALS & MINING: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

7.5 CHEMICALS

7.5.1 INCREASING NEED FOR RELIABLE PLANT OPERATIONS TO DRIVE DEMAND

TABLE 31 CHEMICALS: POWER SCADA MARKET, BY REGION, 2019–2022 (USD

MILLION)

TABLE 32 CHEMICALS: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

7.6 TRANSPORTATION

7.6.1 DEMAND FOR TRANSPARENCY OF LOCATION AND OPERATION DURING MOVEMENT OF GOODS TO PROPEL MARKET GROWTH

TABLE 33 TRANSPORTATION: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 34 TRANSPORTATION: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

7.7 OTHER END-USER INDUSTRIES

TABLE 35 OTHER END-USER INDUSTRIES: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 36 OTHER END-USER INDUSTRIES: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

8 POWER SCADA MARKET, BY COMPONENT

8.1 INTRODUCTION

FIGURE 29 REMOTE TERMINAL UNITS (RTUS) SEGMENT HELD LARGEST SHARE OF POWER SCADA MARKET IN 2022

TABLE 37 POWER SCADA MARKET, BY COMPONENT, 2019–2022 (USD MILLION)

TABLE 38 POWER SCADA MARKET, BY COMPONENT, 2023–2028 (USD MILLION)

8.2 MASTER TERMINAL UNITS (MTUS)

8.2.1 USE TO MONITOR AND CONTROL COMPLETE POWER SCADA SYSTEMS TO DRIVE MARKET

TABLE 39 MASTER TERMINAL UNITS: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 40 MASTER TERMINAL UNITS: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

8.3 REMOTE TERMINAL UNITS (RTUS)

8.3.1 ADOPTION TO COLLECT DATA FROM REMOTE LOCATIONS TO DRIVE MARKET

TABLE 41 REMOTE TERMINAL UNITS: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 42 REMOTE TERMINAL UNITS: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

8.4 HUMAN–MACHINE INTERFACES (HMIS)

8.4.1 USE OF HUMAN–MACHINE INTERFACES FOR EFFECTIVE WORKING OF

SYSTEMS TO DRIVE MARKET

TABLE 43 HUMAN–MACHINE INTERFACES: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 44 HUMAN–MACHINE INTERFACES: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

8.5 PROGRAMMABLE LOGIC CONTROLLERS (PLCS)

8.5.1 USE TO UNDERTAKE LOGIC-BASED DECISIONS TO DRIVE MARKET

TABLE 45 PROGRAMMABLE LOGIC CONTROLLERS: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 46 PROGRAMMABLE LOGIC CONTROLLERS: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

8.6 COMMUNICATION SYSTEMS

8.6.1 USE TO PROVIDE LINK FOR COMMUNICATION BETWEEN NODES IN SCADA NETWORK SYSTEMS TO FUEL MARKET GROWTH

TABLE 47 COMMUNICATION SYSTEMS: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 48 COMMUNICATION SYSTEMS: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

8.7 PROTECTION RELAYS (IEDS)

8.7.1 USE TO TAKE PREVENTIVE ACTION TO AVOID ANY DAMAGE TO DRIVE MARKET

TABLE 49 PROTECTION RELAYS (IEDS): POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 50 PROTECTION RELAYS (IEDS): POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

8.8 OTHER COMPONENTS

TABLE 51 OTHER COMPONENTS: POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 52 OTHER COMPONENTS: POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

9 POWER SCADA MARKET, BY REGION

9.1 INTRODUCTION

FIGURE 30 ASIA PACIFIC POWER SCADA MARKET TO REGISTER HIGHEST CAGR FROM 2023 TO 2028

FIGURE 31 POWER SCADA MARKET SHARE, BY REGION, 2022 (%)

TABLE 53 POWER SCADA MARKET, BY REGION, 2019–2022 (USD MILLION)

TABLE 54 POWER SCADA MARKET, BY REGION, 2023–2028 (USD MILLION)

9.2 ASIA PACIFIC

9.2.1 ASIA PACIFIC: RECESSION IMPACT

FIGURE 32 ASIA PACIFIC: POWER SCADA MARKET SNAPSHOT

9.2.2 BY ARCHITECTURE

TABLE 55 ASIA PACIFIC: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 56 ASIA PACIFIC: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.2.3 BY COMPONENT

TABLE 57 ASIA PACIFIC: POWER SCADA MARKET, BY COMPONENT, 2019–2022 (USD MILLION)

TABLE 58 ASIA PACIFIC: POWER SCADA MARKET, BY COMPONENT, 2023–2028 (USD MILLION)

9.2.4 BY END-USER INDUSTRY

TABLE 59 ASIA PACIFIC: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 60 ASIA PACIFIC: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.2.5 BY COUNTRY

TABLE 61 ASIA PACIFIC: POWER SCADA MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 62 ASIA PACIFIC: POWER SCADA MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.2.5.1 China

9.2.5.1.1 Capitalization on growth opportunities in manufacturing and energy sectors to drive market

9.2.5.1.2 By architecture

TABLE 63 CHINA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 64 CHINA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.2.5.1.3 By end-user industry

TABLE 65 CHINA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 66 CHINA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.2.5.2 Japan

9.2.5.2.1 Robust growth of industrial and manufacturing sectors to drive demand

9.2.5.2.2 By architecture

TABLE 67 JAPAN: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 68 JAPAN: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.2.5.2.3 By end-user industry

TABLE 69 JAPAN: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 70 JAPAN: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.2.5.3 India

9.2.5.3.1 Rising focus on automation of water and wastewater systems to drive market

9.2.5.3.2 By architecture

TABLE 71 INDIA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 72 INDIA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.2.5.3.3 By end-user industry

TABLE 73 INDIA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 74 INDIA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.2.5.4 South Korea

9.2.5.4.1 Increasing innovation, industrialization, and technological advancements to drive demand

9.2.5.4.2 By architecture

TABLE 75 SOUTH KOREA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 76 SOUTH KOREA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.2.5.4.3 By end-user industry

TABLE 77 SOUTH KOREA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 78 SOUTH KOREA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.2.5.5 Australia

9.2.5.5.1 Rising automation investments, renewable energy integration, and technological advancements to drive market

9.2.5.5.2 By architecture

TABLE 79 AUSTRALIA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 80 AUSTRALIA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.2.5.5.3 By end-user industry

TABLE 81 AUSTRALIA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 82 AUSTRALIA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.2.5.6 Rest of Asia Pacific

9.2.5.6.1 By architecture

TABLE 83 REST OF ASIA PACIFIC: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 84 REST OF ASIA PACIFIC: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.2.5.6.2 By end-user industry

TABLE 85 REST OF ASIA PACIFIC: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 86 REST OF ASIA PACIFIC: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.3 NORTH AMERICA

9.3.1 NORTH AMERICA: RECESSION IMPACT

FIGURE 33 NORTH AMERICA: POWER SCADA MARKET SNAPSHOT

9.3.2 BY ARCHITECTURE

TABLE 87 NORTH AMERICA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 88 NORTH AMERICA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.3.3 BY COMPONENT

TABLE 89 NORTH AMERICA: POWER SCADA MARKET, BY COMPONENT, 2019–2022 (USD MILLION)

TABLE 90 NORTH AMERICA: POWER SCADA MARKET, BY COMPONENT, 2023–2028 (USD MILLION)

9.3.4 BY END-USER INDUSTRY

TABLE 91 NORTH AMERICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 92 NORTH AMERICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.3.5 BY COUNTRY

TABLE 93 NORTH AMERICA: POWER SCADA MARKET, BY COUNTRY, 2019–2022
(USD MILLION)

TABLE 94 NORTH AMERICA: POWER SCADA MARKET, BY COUNTRY, 2023–2028
(USD MILLION)

9.3.5.1 US

9.3.5.1.1 Rising demand for industrial automation to drive market

9.3.5.1.2 By architecture

TABLE 95 US: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD
MILLION)

TABLE 96 US: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD
MILLION)

9.3.5.1.3 By end-user industry

TABLE 97 US: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022
(USD MILLION)

TABLE 98 US: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028
(USD MILLION)

9.3.5.2 Canada

9.3.5.2.1 Increasing emphasis on incorporating renewable energy sources into
national power grids to drive market

9.3.5.2.2 By architecture

TABLE 99 CANADA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022
(USD MILLION)

TABLE 100 CANADA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028
(USD MILLION)

9.3.5.2.3 By end-user industry

TABLE 101 CANADA: POWER SCADA MARKET, BY END-USER INDUSTRY,
2019–2022 (USD MILLION)

TABLE 102 CANADA: POWER SCADA MARKET, BY END-USER INDUSTRY,
2023–2028 (USD MILLION)

9.3.5.3 Mexico

9.3.5.3.1 Rising adoption of power SCADA systems to streamline power grids to
drive market

9.3.5.3.2 By architecture

TABLE 103 MEXICO: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022
(USD MILLION)

TABLE 104 MEXICO: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028
(USD MILLION)

9.3.5.3.3 By end-user industry

TABLE 105 MEXICO: POWER SCADA MARKET, BY END-USER INDUSTRY,

2019–2022 (USD MILLION)

TABLE 106 MEXICO: POWER SCADA MARKET, BY END-USER INDUSTRY,
2023–2028 (USD MILLION)

9.4 EUROPE

9.4.1 EUROPE: RECESSION IMPACT

9.4.2 BY ARCHITECTURE

TABLE 107 EUROPE: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022
(USD MILLION)

TABLE 108 EUROPE: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028
(USD MILLION)

9.4.3 BY COMPONENT

TABLE 109 EUROPE: POWER SCADA MARKET, BY COMPONENT, 2019–2022
(USD MILLION)

TABLE 110 EUROPE: POWER SCADA MARKET, BY COMPONENT, 2023–2028
(USD MILLION)

9.4.4 BY END-USER INDUSTRY

TABLE 111 EUROPE: POWER SCADA MARKET, BY END-USER INDUSTRY,
2019–2022 (USD MILLION)

TABLE 112 EUROPE: POWER SCADA MARKET, BY END-USER INDUSTRY,
2023–2028 (USD MILLION)

9.4.5 BY COUNTRY

TABLE 113 EUROPE: POWER SCADA MARKET, BY COUNTRY, 2019–2022 (USD
MILLION)

TABLE 114 EUROPE: POWER SCADA MARKET, BY COUNTRY, 2023–2028 (USD
MILLION)

9.4.5.1 Germany

9.4.5.1.1 Growing use of power SCADA solutions for digital transformation in power
and transportation sectors to drive market

9.4.5.1.2 By architecture

TABLE 115 GERMANY: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022
(USD MILLION)

TABLE 116 GERMANY: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028
(USD MILLION)

9.4.5.1.3 By end-user industry

TABLE 117 GERMANY: POWER SCADA MARKET, BY END-USER INDUSTRY,
2019–2022 (USD MILLION)

TABLE 118 GERMANY: POWER SCADA MARKET, BY END-USER INDUSTRY,
2023–2028 (USD MILLION)

9.4.5.2 France

9.4.5.2.1 Commitment to nuclear power and ambitious green initiatives to drive demand

9.4.5.2.2 By architecture

TABLE 119 FRANCE: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 120 FRANCE: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.4.5.2.3 By end-user industry

TABLE 121 FRANCE: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 122 FRANCE: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.4.5.3 UK

9.4.5.3.1 Focus on achieving net zero carbon emissions by 2050 to drive demand

9.4.5.3.2 By architecture

TABLE 123 UK: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 124 UK: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.4.5.3.3 By end-user industry

TABLE 125 UK: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 126 UK: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.4.5.4 Russia

9.4.5.4.1 Focus on grid modernization to drive demand

9.4.5.4.2 By architecture

TABLE 127 RUSSIA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 128 RUSSIA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.4.5.4.3 By end-user industry

TABLE 129 RUSSIA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 130 RUSSIA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.4.5.5 Italy

9.4.5.5.1 Increasing investments in pharmaceuticals industry to automate processes to drive demand

9.4.5.5.2 By architecture

TABLE 131 ITALY: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 132 ITALY: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.4.5.5.3 By end-user industry

TABLE 133 ITALY: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 134 ITALY: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.4.5.6 Rest of Europe

9.4.5.6.1 By architecture

TABLE 135 REST OF EUROPE: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 136 REST OF EUROPE: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.4.5.6.2 By end-user industry

TABLE 137 REST OF EUROPE: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 138 REST OF EUROPE: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.5 MIDDLE EAST & AFRICA

9.5.1 MIDDLE EAST & AFRICA: RECESSION IMPACT

9.5.2 BY ARCHITECTURE

TABLE 139 MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 140 MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.5.3 BY COMPONENT

TABLE 141 MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY COMPONENT, 2019–2022 (USD MILLION)

TABLE 142 MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY COMPONENT, 2023–2028 (USD MILLION)

9.5.4 BY END-USER INDUSTRY

TABLE 143 MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 144 MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.5.5 BY COUNTRY

TABLE 145 MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 146 MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.5.5.1 Saudi Arabia

9.5.5.1.1 Focus on diversifying energy mix through solar and wind power projects to drive demand

9.5.5.1.2 By architecture

TABLE 147 SAUDI ARABIA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 148 SAUDI ARABIA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.5.5.1.3 By end-user industry

TABLE 149 SAUDI ARABIA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 150 SAUDI ARABIA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.5.5.2 UAE

9.5.5.2.1 Optimization of oil & gas infrastructure to drive demand

9.5.5.2.2 By architecture

TABLE 151 UAE: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 152 UAE: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.5.5.2.3 By end-user industry

TABLE 153 UAE: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 154 UAE: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.5.5.3 South Africa

9.5.5.3.1 Lack of skilled labor in mining industry to drive demand

9.5.5.3.2 By architecture

TABLE 155 SOUTH AFRICA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 156 SOUTH AFRICA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.5.5.3.3 By end-user industry

TABLE 157 SOUTH AFRICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 158 SOUTH AFRICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.5.5.4 Rest of Middle East & Africa

9.5.5.4.1 By architecture

TABLE 159 REST OF MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 160 REST OF MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.5.5.4.2 By end-user industry

TABLE 161 REST OF MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 162 REST OF MIDDLE EAST & AFRICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.6 SOUTH AMERICA

9.6.1 SOUTH AMERICA: RECESSION IMPACT

9.6.2 BY ARCHITECTURE

TABLE 163 SOUTH AMERICA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 164 SOUTH AMERICA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.6.3 BY COMPONENT

TABLE 165 SOUTH AMERICA: POWER SCADA MARKET, BY COMPONENT, 2019–2022 (USD MILLION)

TABLE 166 SOUTH AMERICA: POWER SCADA MARKET, BY COMPONENT, 2023–2028 (USD MILLION)

9.6.4 BY END-USER INDUSTRY

TABLE 167 SOUTH AMERICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 168 SOUTH AMERICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.6.5 BY COUNTRY

TABLE 169 SOUTH AMERICA: POWER SCADA MARKET, BY COUNTRY, 2019–2022 (USD MILLION)

TABLE 170 SOUTH AMERICA: POWER SCADA MARKET, BY COUNTRY, 2023–2028 (USD MILLION)

9.6.5.1 Brazil

9.6.5.1.1 Need to upgrade and automate existing hydropower plants to drive demand

9.6.5.1.2 By architecture

TABLE 171 BRAZIL: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 172 BRAZIL: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.6.5.1.3 By end-user industry

TABLE 173 BRAZIL: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 174 BRAZIL: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.6.5.2 Argentina

9.6.5.2.1 Deployment of power SCADA solutions in oil & gas, hydropower, and renewable energy industries to drive market

9.6.5.2.2 By architecture

TABLE 175 ARGENTINA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 176 ARGENTINA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.6.5.2.3 By end-user industry

TABLE 177 ARGENTINA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 178 ARGENTINA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

9.6.5.3 Rest of South America

9.6.5.3.1 By architecture

TABLE 179 REST OF SOUTH AMERICA: POWER SCADA MARKET, BY ARCHITECTURE, 2019–2022 (USD MILLION)

TABLE 180 REST OF SOUTH AMERICA: POWER SCADA MARKET, BY ARCHITECTURE, 2023–2028 (USD MILLION)

9.6.5.3.2 By end-user industry

TABLE 181 REST OF SOUTH AMERICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2019–2022 (USD MILLION)

TABLE 182 REST OF SOUTH AMERICA: POWER SCADA MARKET, BY END-USER INDUSTRY, 2023–2028 (USD MILLION)

10 COMPETITIVE LANDSCAPE

10.1 OVERVIEW

10.2 KEY STRATEGIES ADOPTED BY MAJOR PLAYERS

TABLE 183 POWER SCADA MARKET: OVERVIEW OF KEY STRATEGIES ADOPTED

BY MAJOR PLAYERS, JANUARY 2020–DECEMBER 2023

10.3 MARKET SHARE ANALYSIS, 2022

TABLE 184 POWER SCADA MARKET: DEGREE OF COMPETITION, 2022

FIGURE 34 POWER SCADA MARKET SHARE ANALYSIS, 2022

10.4 MARKET EVALUATION FRAMEWORK, 2020–2023

TABLE 185 MARKET EVALUATION FRAMEWORK, 2020–2023

10.5 REVENUE ANALYSIS, 2018–2022

FIGURE 35 POWER SCADA MARKET: REVENUE ANALYSIS OF TOP FIVE COMPANIES, 2018–2022

10.6 COMPANY EVALUATION MATRIX, 2022

10.6.1 STARS

10.6.2 EMERGING LEADERS

10.6.3 PERVASIVE PLAYERS

10.6.4 PARTICIPANTS

FIGURE 36 POWER SCADA MARKET: COMPANY EVALUATION MATRIX, 2022

10.6.5 COMPANY FOOTPRINT

TABLE 186 COMPANY OVERALL FOOTPRINT

TABLE 187 COMPANY ARCHITECTURE FOOTPRINT

TABLE 188 COMPANY END-USER INDUSTRY FOOTPRINT

TABLE 189 COMPANY REGION FOOTPRINT

10.7 COMPETITIVE SCENARIOS AND TRENDS

10.7.1 PRODUCT LAUNCHES

TABLE 190 POWER SCADA MARKET: PRODUCT LAUNCHES, JANUARY 2020–DECEMBER 2023

10.7.2 DEALS

TABLE 191 POWER SCADA MARKET: DEALS, MAY 2020–DECEMBER 2023

10.7.3 OTHERS

TABLE 192 POWER SCADA MARKET: OTHERS, JANUARY 2020–DECEMBER 2023

11 COMPANY PROFILES

(Business overview, Products/ Solutions offered, Recent Developments, MNM view)*

11.1 KEY PLAYERS

11.1.1 ABB

TABLE 193 ABB: COMPANY OVERVIEW

FIGURE 37 ABB: COMPANY SNAPSHOT

TABLE 194 ABB: PRODUCTS/SOLUTIONS OFFERED

TABLE 195 ABB: PRODUCT LAUNCHES

TABLE 196 ABB: DEALS

11.1.2 SIEMENS

TABLE 197 SIEMENS: COMPANY OVERVIEW

FIGURE 38 SIEMENS: COMPANY SNAPSHOT

TABLE 198 SIEMENS: PRODUCTS/SOLUTIONS OFFERED

TABLE 199 SIEMENS: DEALS

TABLE 200 SIEMENS: OTHERS

11.1.3 EMERSON

TABLE 201 EMERSON: COMPANY OVERVIEW

FIGURE 39 EMERSON: COMPANY SNAPSHOT

TABLE 202 EMERSON: PRODUCT/SOLUTIONS OFFERED

TABLE 203 EMERSON: PRODUCT LAUNCHES

TABLE 204 EMERSON: DEALS

11.1.4 SCHNEIDER ELECTRIC

TABLE 205 SCHNEIDER ELECTRIC: COMPANY OVERVIEW

FIGURE 40 SCHNEIDER ELECTRIC: COMPANY SNAPSHOT

TABLE 206 SCHNEIDER ELECTRIC: PRODUCTS/SOLUTIONS OFFERED

TABLE 207 SCHNEIDER ELECTRIC: PRODUCT LAUNCHES

TABLE 208 SCHNEIDER ELECTRIC: DEALS

11.1.5 ROCKWELL AUTOMATION

TABLE 209 ROCKWELL AUTOMATION: COMPANY OVERVIEW

FIGURE 41 ROCKWELL: COMPANY SNAPSHOT

TABLE 210 ROCKWELL AUTOMATION: PRODUCTS/SOLUTIONS OFFERED

TABLE 211 ROCKWELL AUTOMATION: DEALS

11.1.6 MITSUBISHI ELECTRIC

TABLE 212 MITSUBISHI ELECTRIC: COMPANY OVERVIEW

FIGURE 42 MITSUBISHI ELECTRIC: COMPANY SNAPSHOT

TABLE 213 MITSUBISHI ELECTRIC: PRODUCTS/SOLUTIONS OFFERED

TABLE 214 MITSUBISHI ELECTRIC: DEALS

TABLE 215 MITSUBISHI ELECTRIC: OTHERS

11.1.7 HONEYWELL

TABLE 216 HONEYWELL: COMPANY OVERVIEW

FIGURE 43 HONEYWELL: COMPANY SNAPSHOT

TABLE 217 HONEYWELL: PRODUCTS/SOLUTIONS OFFERED

TABLE 218 HONEYWELL: PRODUCT LAUNCHES

TABLE 219 HONEYWELL: DEALS

11.1.8 YOKOGAWA ELECTRIC CORPORATION

TABLE 220 YOKOGAWA: COMPANY OVERVIEW

FIGURE 44 YOKOGAWA ELECTRIC CORPORATION: COMPANY SNAPSHOT

TABLE 221 YOKOGAWA ELECTRIC CORPORATION: PRODUCTS/SOLUTIONS

OFFERED

TABLE 222 YOKOGAWA ELECTRIC CORPORATION: PRODUCT LAUNCHES

TABLE 223 YOKOGAWA ELECTRIC CORPORATION: DEALS

11.1.9 OPEN SYSTEM INTERNATIONAL

TABLE 224 OPEN SYSTEM INTERNATIONAL: COMPANY OVERVIEW

TABLE 225 OPEN SYSTEMS INTERNATIONAL: PRODUCTS/SOLUTIONS OFFERED

TABLE 226 OPEN SYSTEMS INTERNATIONAL: DEALS

11.1.10 INDRA SISTEMAS

TABLE 227 INDRA SISTEMAS: COMPANY OVERVIEW

TABLE 228 INDRA SISTEMAS: PRODUCTS/SOLUTIONS OFFERED

TABLE 229 INDRA SISTEMAS: PRODUCT LAUNCHES

TABLE 230 INDRA SISTEMAS-DEALS

11.1.11 MOTOROLA SOLUTIONS

TABLE 231 MOTOROLA SOLUTIONS: COMPANY OVERVIEW

FIGURE 45 MOTOROLA SOLUTIONS: COMPANY SNAPSHOT

TABLE 232 MOTOROLA SOLUTIONS: PRODUCTS/SOLUTIONS OFFERED

TABLE 233 MOTOROLA SOLUTIONS: DEALS

11.1.12 BENTEK SYSTEMS

TABLE 234 BENTEK SYSTEMS: COMPANY OVERVIEW

TABLE 235 BENTEK SYSTEMS: PRODUCTS/SOLUTIONS OFFERED

11.1.13 EFACEC POWER SOLUTIONS

TABLE 236 EFACEC POWER SOLUTIONS: COMPANY OVERVIEW

TABLE 237 EFACEC POWER SOLUTIONS: PRODUCTS/SOLUTIONS OFFERED

TABLE 238 EFACEC POWER SOLUTIONS: DEALS

11.1.14 EATON

TABLE 239 EATON: COMPANY OVERVIEW

FIGURE 46 EATON: COMPANY SNAPSHOT

TABLE 240 EATON: PRODUCTS/SOLUTIONS OFFERED

11.1.15 GENERAL ELECTRIC

TABLE 241 GENERAL ELECTRIC: COMPANY OVERVIEW

FIGURE 47 GENERAL ELECTRIC: COMPANY SNAPSHOT

TABLE 242 GENERAL ELECTRIC: PRODUCTS/SOLUTIONS OFFERED

TABLE 243 GENERAL ELECTRIC: DEALS

11.1.16 PSI AG

TABLE 244 PSI AG: COMPANY OVERVIEW

FIGURE 48 PSI AG: COMPANY SNAPSHOT

TABLE 245 PSI AG: PRODUCTS/SOLUTIONS OFFERED

TABLE 246 PSI AG: DEALS

11.2 OTHER PLAYERS

11.2.1 TOSHIBA

11.2.2 HITACHI

11.2.3 OUTLAW AUTOMATION

11.2.4 OMRON TECHNOLOGIES

11.2.5 ADVANTECH CO

11.2.6 INDUCTIVE AUTOMATION

11.2.7 SURVALENT TECHNOLOGY CORPORATION

11.2.8 NUGEN AUTOMATION

11.2.9 OVAK TECHNOLOGIES

*Details on Business overview, Products/ Solutions offered, Recent Developments, MNM view might not be captured in case of unlisted companies.

12 APPENDIX

12.1 INSIGHTS FROM INDUSTRY EXPERTS

12.2 DISCUSSION GUIDE

12.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

12.4 CUSTOMIZATION OPTIONS

12.5 RELATED REPORTS

12.6 AUTHOR DETAILS

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