

**Distributed Control System Market by Component (Hardware, Software, Services), Application (Continuous, Batch-Oriented), End-user (Oil & Gas, Power Generation, Chemical, Food & Beverages, Pharmaceutical, Metal & Mining), Region - Global Forecast to 2028**

Market Report | 2023-07-25 | 262 pages | MarketsandMarkets

**AVAILABLE LICENSES:**

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

**Report description:**

The global distributed control system market is estimated to grow from USD 19.9 Billion in 2023 to USD 26.7 Billion by 2028; it is expected to record a CAGR of 6.1% during the forecast period. The growth is attributed by the several factors such as booming power sector, increased upstream and downstream activities in oil & gas industry, and increased cardboard and paper production process in pulp & paper industry. Distributed control systems are used in these industries to monitor and control various processes and operations.

"Software: The largest segment of the distributed control system market, by component "

Based on component, the distributed control system market has been split into three types: Software, Hardware, and Services. The Software segment is expected to be the largest segment during the forecast period. Upgrades to existing software, increased use of distributed control systems in cloud computing technologies, and upcoming technologies such as IoT are some of the major drivers of the software segment in the DCS market.

"Continuous Process segment is expected to be the largest segment during forecast period based on application"

By application, the distributed control system market has been segmented into continuous process and batch-oriented process. The continuous process segment is expected to lead the distributed control system market during the forecast period. A continuous process is an industrial manufacturing or production process that runs continuously with a continuous flow of raw materials and produces a continuous stream of output without interruptions. The integration of distributed control systems in nuclear and renewables sectors in the power generation industry and upstream and downstream activities in the oil & gas industry are the major factors driving the continuous process segment in the distributed control system market.

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

"By end-use industry, the Oil & Gas segment is expected to be the largest segment during the forecast period."

Based on end-use industry, the distributed control system market is segmented into Oil & Gas, Power Generation, Chemicals, Food & Beverages, Pharmaceutical, Metals & Mining, Paper & Pulp, and Others. The Oil & Gas segment is expected to be the largest segment of the distributed control system market during the forecast period. DCS is used to control drilling activities, manage wellheads, and monitor production facilities in upstream exploration and production. On offshore platforms and onshore production sites, DCS systems collect real-time data from sensors and control diverse equipment like as pumps, valves, and compressors. These factors are projected to drive the oil & gas industry in distributed control system market.

North America is expected to be the second-largest region in the distributed control system market

North America is expected to be the second-largest distributed control system market during the forecast period. The use of DCS solutions in industries such as oil & gas, power generation, and water & wastewater treatment has grown significantly in the US. In the power generation industry, distributed control systems have been introduced for new applications to identify, diagnose, and repair faults in the grid infrastructures.

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 and 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: Asia Pacific- 65%, North America- 10%, Europe- 10%, South America- 5%, Middle East- 5%, Africa-5%

Note: Others include sales managers, engineers, and regional managers.

Note: The tiers of the companies are defined on the basis of their total revenues as of 2022. Tier 1: > USD 1 billion, Tier 2: From USD 500 million to USD 1 billion, and Tier 3: < USD 500 million

The distributed control system market is dominated by a few major players that have a wide regional presence. The leading players in the distributed control system market are Siemens (Germany), ABB (Switzerland), Schneider Electric (France), Emerson Electric Co. (US), and Honeywell International Inc. (US). The major strategy adopted by the players includes new product launches, contracts & agreements, merger and acquisitions, and investments & expansions.

Research Coverage:

The report defines, describes, and forecasts the global distributed control system market by type, portability, application, and region. It also offers a detailed qualitative and quantitative analysis of the market. The report comprehensively reviews the major market drivers, restraints, opportunities, and challenges. It also covers various important aspects of the market. These include an analysis of the competitive landscape, market dynamics, market estimates in terms of value, and future trends in the distributed control system market.

Key Benefits of Buying the Report

-□ Investments in conventional power generation in Middle Eastern countries such as Egypt and Oman and renewable power generation in Asia Pacific and African countries such as China, India, and South Africa have been planned to meet the increasing demand for power. These are few of the key factor driving the distributed control system market. Moreover, rising 5G technology and increasing adoption of cloud computing and IOT devices in power generation are expected to create lucrative opportunities for the players operating in the distributed control system market. Stagnant growth in oil & gas industry and slowdown in the mining industries are some of major challenges for the players, especially for emerging players, operating in the distributed control system market.

-□ Product Development/ Innovation: The distributed control system market is witnessing significant product development and innovation, driven by the growing demand for DCS systems in power generation and oil & gas industries. Companies are investing in developing advanced distributed control systems such as Industrial Internet of things (IIOT) technology in distributed control system systems. Machine Learning (ML) has made significant contributions to overall parameters in the field of distributed control systems. These technologies leverage the power of data analysis and intelligent algorithms to optimize process parameters, improve overall performance, and predict equipment failures.

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

-□Market Development: Data analytics and visualization are becoming increasingly important in the distributed control system. Advancements in data analytics and visualization techniques have transformed the interpretation and utilization of control and monitoring results. These advancements enable comprehensive analysis of large datasets, identification of trends, detection of anomalies, and provision of actionable insights to improve the overall control process.

-□Market Diversification: ABB has recently launched the ABB Ability Symphony Plus distributed control system (DCS) in order to support digital transformation in the power generation and water industries. The latest Symphony Plus version will further enhance customers' digital journey, through a simpler and secure OPC UA1 connection.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players, like include Siemens (Germany), ABB (Switzerland), Schneider Electric (France), Emerson Electric Co. (US), and Honeywell International Inc. (US) among others in the distributed control system market.

## **Table of Contents:**

1	INTRODUCTION	39	
1.1	STUDY OBJECTIVES	39	
1.2	MARKET DEFINITION	39	
1.3	INCLUSIONS AND EXCLUSIONS	40	
1.3.1	DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT: INCLUSIONS AND EXCLUSIONS	40	
1.3.2	DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION: INCLUSIONS AND EXCLUSIONS	40	
1.3.3	DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY: INCLUSIONS AND EXCLUSIONS	40	
1.3.4	DISTRIBUTED CONTROL SYSTEM MARKET, BY SHIPMENT SCALE: INCLUSIONS AND EXCLUSIONS	40	
1.4	STUDY SCOPE	41	
1.4.1	DISTRIBUTED CONTROL SYSTEM MARKET: SEGMENTATION	41	
1.4.2	GEOGRAPHICAL SCOPE	41	
1.4.3	YEARS CONSIDERED	42	
1.5	CURRENCY CONSIDERED	42	
1.6	LIMITATIONS	42	
1.7	STAKEHOLDERS	42	
1.8	SUMMARY OF CHANGES	43	
1.9	IMPACT OF RECESSION	43	
2	RESEARCH METHODOLOGY	44	
2.1	RESEARCH DATA	44	
	FIGURE 1	DISTRIBUTED CONTROL SYSTEM MARKET: RESEARCH DESIGN	45
2.2	MARKET BREAKDOWN AND DATA TRIANGULATION	45	
	FIGURE 2	DATA TRIANGULATION METHODOLOGY	46
2.2.1	SECONDARY DATA	46	
2.2.1.1	Key data from secondary sources	47	
2.2.2	PRIMARY DATA	47	
2.2.2.1	Key data from primary sources	47	
2.2.2.2	Breakdown of primaries	48	
	FIGURE 3	BREAKDOWN OF PRIMARIES	48
2.3	MARKET SIZE ESTIMATION	49	
2.3.1	BOTTOM-UP APPROACH	49	
	FIGURE 4	MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH	49
2.3.2	TOP-DOWN APPROACH	50	
	FIGURE 5	MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH	50
2.3.3	DEMAND-SIDE METRICS	51	
	FIGURE 6	MAIN METRICS CONSIDERED WHILE ANALYZING AND ASSESSING DEMAND FOR DISTRIBUTED CONTROL SYSTEMS	51

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

2.3.3.1	Calculation for demand-side metrics	51
2.3.3.2	Research assumptions for demand-side metrics	52
2.3.4	SUPPLY-SIDE ANALYSIS	52
FIGURE 7	KEY STEPS CONSIDERED FOR ASSESSING SUPPLY OF DISTRIBUTED CONTROL SYSTEMS	52
FIGURE 8	DISTRIBUTED CONTROL SYSTEM MARKET: SUPPLY-SIDE ANALYSIS	53
2.3.4.1	Supply-side calculation	53
2.3.4.2	Assumptions for supply side	53
FIGURE 9	COMPANY REVENUE ANALYSIS, 2022	54
2.3.5	FORECAST	54
2.3.5.1	Recession impact analysis	54
3	EXECUTIVE SUMMARY	55
TABLE 1	DISTRIBUTED CONTROL SYSTEM MARKET SNAPSHOT	56
FIGURE 10	SOFTWARE SEGMENT TO ACCOUNT FOR LARGEST SIZE OF DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, DURING FORECAST PERIOD	57
FIGURE 11	CONTINUOUS SEGMENT TO ACCOUNT FOR LARGEST SIZE OF DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, DURING FORECAST PERIOD	57
FIGURE 12	OIL & GAS SEGMENT TO LEAD DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, DURING FORECAST PERIOD	58
FIGURE 13	ASIA PACIFIC ACCOUNTED FOR LARGEST SHARE OF DISTRIBUTED CONTROL SYSTEM MARKET IN 2022	59
4	PREMIUM INSIGHTS	60
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN DISTRIBUTED CONTROL SYSTEM MARKET	60
FIGURE 14	NEED TO REDUCE CARBON EMISSIONS TO PROPEL MARKET GROWTH DURING 2023-2028	60
4.2	DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION	61
FIGURE 15	ASIA PACIFIC TO REGISTER HIGHEST CAGR IN DISTRIBUTED CONTROL SYSTEM MARKET DURING FORECAST PERIOD	61
4.3	ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT AND COUNTRY	62
FIGURE 16	SOFTWARE SEGMENT AND CHINA WERE LARGEST SHAREHOLDERS OF DISTRIBUTED CONTROL SYSTEM MARKET IN ASIA PACIFIC IN 2022	62
4.4	DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT	62
FIGURE 17	SOFTWARE SEGMENT HELD LARGEST SHARE OF DISTRIBUTED CONTROL SYSTEM MARKET IN 2022	62
4.5	DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION	63
FIGURE 18	CONTINUOUS PROCESS SEGMENT CAPTURED MAJOR MARKET SHARE IN 2022	63
4.6	DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY	63
FIGURE 19	OIL & GAS SEGMENT ACCOUNTED FOR LARGEST SHARE OF DISTRIBUTED CONTROL SYSTEM MARKET IN 2022	63
5	MARKET OVERVIEW	64
5.1	INTRODUCTION	64
5.2	MARKET DYNAMICS	65
FIGURE 20	DISTRIBUTED CONTROL SYSTEM MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES	65
5.2.1	DRIVERS	65
5.2.1.1	Booming power sector and augmented power generation capacities worldwide	65
FIGURE 21	PROJECTED ELECTRICITY GENERATION CAPACITY WORLDWIDE, 2018-2050	66
FIGURE 22	WORLD ELECTRICITY SUPPLY, BY SOURCE, 2022	66
5.2.1.2	Growing industrial infrastructure for power generation in developing countries	66
FIGURE 23	POWER GENERATION VIA NATURAL GAS, 2020-2021	67
FIGURE 24	WORLDWIDE NATURAL GAS CONSUMPTION, 1998-2021	68
5.2.1.3	Increasing use of renewable energy for power generation	68
TABLE 2	GLOBAL ELECTRICITY GENERATION FROM RENEWABLE SOURCES, 2010-2021	69
5.2.2	RESTRAINTS	69

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

5.2.2.1	Availability of low-cost alternatives	69
5.2.2.2	Sluggish response time of distributed control systems	69
5.2.2.3	High degree of redundancy	69
5.2.3	OPPORTUNITIES	70
5.2.3.1	Changing face of manufacturing industry in Middle East	70
5.2.3.2	Adoption of Industrial Internet of Things (IIoT) for real-time decision-making and increasing use of 5G technology in industrial environments	70
5.2.3.3	Development of power grid market	70
5.2.4	CHALLENGES	71
5.2.4.1	Stagnation in oil & gas industry	71
5.2.4.2	Slowdown in mining industry in Asia Pacific, Americas, and Africa	71
5.3	TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS	71
5.3.1	REVENUE SHIFTS AND NEW REVENUE POCKETS FOR PROVIDERS OF DISTRIBUTED CONTROL SYSTEMS	71
FIGURE 25	REVENUE SHIFTS FOR DISTRIBUTED CONTROL SYSTEM PROVIDERS	72
5.4	SUPPLY CHAIN ANALYSIS	72
FIGURE 26	DISTRIBUTED CONTROL SYSTEM MARKET: SUPPLY CHAIN ANALYSIS	72
5.4.1	RAW MATERIAL PROVIDERS/SUPPLIERS	73
5.4.2	DISTRIBUTED CONTROL SYSTEM COMPONENT MANUFACTURERS	73
5.4.3	DISTRIBUTED CONTROL SYSTEM MANUFACTURERS	73
5.4.4	END-USE INDUSTRIES	73
TABLE 3	ROLE OF KEY COMPANIES IN DISTRIBUTED CONTROL SYSTEM ECOSYSTEM	74
5.5	ECOSYSTEM MAPPING	75
FIGURE 27	DISTRIBUTED CONTROL SYSTEM MARKET MAP	75
5.6	PRICING ANALYSIS	75
TABLE 4	PRICE OF CONVENTIONAL DISTRIBUTED CONTROL SYSTEMS	75
5.7	TECHNOLOGY ANALYSIS	76
5.7.1	DIFFERENT TECHNOLOGIES USED BY INDUSTRIES DEPLOYING DISTRIBUTED CONTROL SYSTEMS	76
5.8	PATENT ANALYSIS	76
5.8.1	LIST OF MAJOR PATENTS	76
TABLE 5	DISTRIBUTED CONTROL SYSTEMS: INNOVATIONS AND PATENT REGISTRATIONS, 2018-2023	76
5.9	TARIFFS AND REGULATORY FRAMEWORK	77
TABLE 6	CODES AND REGULATIONS	77
5.10	CASE STUDY ANALYSIS	78
5.10.1	ABB HELPED COLOMBIAN OIL& GAS COMPANY UPGRADE CONTROL SYSTEMS	78
5.10.2	TWO MALAYSIAN POWER PLANTS INSTALLED GE'S COMBINED-CYCLE HEAVY-DUTY GAS TURBINES TO ACHIEVE EMISSIONS REDUCTION	78
5.10.3	CHEMICAL PLANT IN US CHOSE ABB'S SYSTEM 800XA PERFORMANCE SERVICES TO IMPROVE SYSTEM AND PROCESS PERFORMANCE	79
5.11	PORTER'S FIVE FORCES ANALYSIS	79
FIGURE 28	DISTRIBUTED CONTROL SYSTEM MARKET: PORTER'S FIVE FORCES ANALYSIS	79
TABLE 7	DISTRIBUTED CONTROL SYSTEM MARKET: PORTER'S FIVE FORCES ANALYSIS	80
5.11.1	THREAT OF NEW ENTRANTS	80
5.11.2	THREAT OF SUBSTITUTES	80
5.11.3	BARGAINING POWER OF SUPPLIERS	80
5.11.4	BARGAINING POWER OF BUYERS	81
5.11.5	THREAT OF NEW ENTRANTS	81
5.11.6	INTENSITY OF COMPETITIVE RIVALRY	81

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

## 6 DISTRIBUTED CONTROL SYSTEM MARKET, BY SHIPMENT SCALE 82

### 6.1 INTRODUCTION 82

TABLE 8 SHIPMENT SCALE FOR DISTRIBUTED CONTROL SYSTEMS, BY HARDWARE COMPONENT 82

### 6.2 LARGE SCALE 82

#### 6.2.1 LARGE SHIPMENT SCALE PRIMARILY UTILIZED BY OIL & GAS AND METALS & MINING INDUSTRIES 82

FIGURE 29 OIL PRODUCTION TREND IN OECD COUNTRIES, 2018-2021 83

FIGURE 30 OIL PRODUCTION TREND IN OPEC COUNTRIES, 2018-2021 83

### 6.3 MEDIUM SCALE 83

#### 6.3.1 MEDIUM-SCALE SHIPMENTS EXTENSIVELY USED BY PHARMACEUTICALS AND CHEMICALS INDUSTRIES 83

FIGURE 31 GLOBAL PHARMACEUTICALS MARKET SIZE, 2001-2022 84

### 6.4 SMALL SCALE 84

#### 6.4.1 DEMAND FROM SMALL-SCALE END USERS SUCH AS BAKERIES AND POWER LOOMS TO DRIVE SEGMENTAL LANDSCAPE 84

7 DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION 85

### 7.1 INTRODUCTION 86

FIGURE 32 CONTINUOUS PROCESS SEGMENT ACCOUNTED FOR LARGER SHARE OF DISTRIBUTED CONTROL SYSTEM MARKET IN 2022 86

TABLE 9 DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2017-2022 (USD MILLION) 86

TABLE 10 DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 86

### 7.2 CONTINUOUS PROCESS 87

7.2.1 ABILITY TO CONTROL COMPLEX PROCESSES WITHOUT INTERRUPTIONS TO BOOST ADOPTION OF DCS IN CONTINUOUS PROCESSES 87

TABLE 11 CONTINUOUS PROCESS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 87

TABLE 12 CONTINUOUS PROCESS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 88

### 7.3 BATCH-ORIENTED PROCESS 88

#### 7.3.1 NEED TO MAINTAIN QUALITY TO DRIVE ADOPTION OF DCS IN BATCH-ORIENTED PROCESSES 88

TABLE 13 BATCH-ORIENTED PROCESS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 88

TABLE 14 BATCH-ORIENTED PROCESS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 89

8 DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT 90

### 8.1 INTRODUCTION 91

FIGURE 33 SOFTWARE SEGMENT CAPTURED LARGEST SHARE OF DISTRIBUTED CONTROL SYSTEM MARKET IN 2022 91

TABLE 15 DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 91

TABLE 16 DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 91

### 8.2 SOFTWARE 92

#### 8.2.1 ANALYZE DATA AND HELP IDENTIFY PRECISE LOCATIONS FOR REPAIR 92

TABLE 17 SOFTWARE: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 92

TABLE 18 SOFTWARE: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 92

### 8.3 HARDWARE 93

#### 8.3.1 HARDWARE COMPONENTS HELP PERFORM VARIOUS FUNCTIONS, INCLUDING FIELD DATA COLLECTION 93

TABLE 19 HARDWARE: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 93

TABLE 20 HARDWARE: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 93

### 8.4 SERVICES 94

#### 8.4.1 COVER DESIGNING, INSTALLATION, TRAINING, AND MAINTENANCE 94

TABLE 21 SERVICES: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 94

TABLE 22 SERVICES: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 95

9 DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY 96

### 9.1 INTRODUCTION 97

FIGURE 34 OIL & GAS SEGMENT LED DISTRIBUTED CONTROL SYSTEM MARKET IN 2022 97

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

TABLE 23 DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 97

TABLE 24 DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 98

9.2 OIL & GAS 98

9.2.1 NEED TO OPTIMIZE PRODUCTION TO INCREASE USE OF DISTRIBUTED CONTROL SYSTEMS 98

TABLE 25 OIL & GAS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 99

TABLE 26 OIL & GAS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 99

9.3 POWER GENERATION 99

9.3.1 USE OF DISTRIBUTED CONTROL SYSTEMS TO INCREASE IN POWER GENERATION INDUSTRY FOR DATA ACQUISITION 99

TABLE 27 POWER GENERATION: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 100

TABLE 28 POWER GENERATION: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 100

9.4 CHEMICALS 100

9.4.1 INCREASING NEED FOR RELIABLE PLANT OPERATIONS TO DRIVE ADOPTION OF DISTRIBUTED CONTROL SYSTEMS 100

TABLE 29 CHEMICALS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 101

TABLE 30 CHEMICALS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 101

9.5 FOOD & BEVERAGES 101

9.5.1 RISING FOCUS ON MAINTAINING QUALITY OF FOOD PRODUCTS AND BEVERAGES TO FUEL ADOPTION OF DISTRIBUTED CONTROL SYSTEMS 101

TABLE 31 FOOD & BEVERAGES: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 102

TABLE 32 FOOD & BEVERAGES: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 102

9.6 PHARMACEUTICALS 102

9.6.1 NEED TO INCREASE PRODUCTIVITY AND MINIMIZE COSTS TO BOOST DEMAND FOR DISTRIBUTED CONTROL SYSTEMS 102

TABLE 33 PHARMACEUTICALS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 103

TABLE 34 PHARMACEUTICALS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 103

9.7 METALS & MINING 104

9.7.1 RISING FOCUS ON ENSURING OPERATIONAL SAFETY AND ACHIEVING EFFICIENCY TO INCREASE ADOPTION OF DISTRIBUTED CONTROL SYSTEMS 104

TABLE 35 METALS & MINING: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 104

TABLE 36 METALS & MINING: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 105

9.8 PAPER & PULP 105

9.8.1 NEED TO CARRY OUT MULTIPLE OPERATIONS SIMULTANEOUSLY TO ACCELERATE IMPLEMENTATION OF DISTRIBUTED CONTROL SYSTEMS 105

TABLE 37 PAPER & PULP: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 105

TABLE 38 PAPER & PULP: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 106

9.9 OTHERS 106

TABLE 39 OTHERS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 106

TABLE 40 OTHERS: DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 107

10 DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION 108

10.1 INTRODUCTION 109

FIGURE 35 DISTRIBUTED CONTROL SYSTEM MARKET IN ASIA PACIFIC TO REGISTER HIGHEST CAGR FROM 2023 TO 2028 109

FIGURE 36 ASIA PACIFIC ACCOUNTED FOR LARGEST SHARE OF DISTRIBUTED CONTROL SYSTEM MARKET IN 2022 110

TABLE 41 DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2017-2022 (USD MILLION) 110

TABLE 42 DISTRIBUTED CONTROL SYSTEM MARKET, BY REGION, 2023-2028 (USD MILLION) 110

10.2 ASIA PACIFIC 111

FIGURE 37 ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET SNAPSHOT 112

10.2.1 ASIA PACIFIC: RECESSION IMPACT 112

10.2.2 BY COMPONENT 113

TABLE 43 ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 113

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

TABLE 44 ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 113

10.2.3 BY APPLICATION 113

TABLE 45 ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2017-2022 (USD MILLION) 113

TABLE 46 ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 114

10.2.4 BY END-USE INDUSTRY 114

TABLE 47 ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 114

TABLE 48 ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 114

10.2.5 BY COUNTRY 115

TABLE 49 ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY COUNTRY, 2017-2022 (USD MILLION) 115

TABLE 50 ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY COUNTRY, 2023-2028 (USD MILLION) 115

10.2.5.1 China 116

10.2.5.1.1 Rapid industrialization and infrastructural development to support market growth 116

10.2.5.1.2 By component 116

TABLE 51 CHINA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 116

TABLE 52 CHINA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 116

10.2.5.1.3 By end-use industry 117

TABLE 53 CHINA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 117

TABLE 54 CHINA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 117

10.2.5.2 Japan 118

10.2.5.2.1 Plans to promote distributed power generation in residential and commercial sectors to drive market 118

10.2.5.2.2 By component 118

TABLE 55 JAPAN: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 118

TABLE 56 JAPAN: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 118

10.2.5.2.3 By end-use industry 119

TABLE 57 JAPAN: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 119

TABLE 58 JAPAN: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 119

10.2.5.3 South Korea 120

10.2.5.3.1 Foreign investments in developing new energy infrastructure to foster market growth 120

10.2.5.3.2 By component 120

TABLE 59 SOUTH KOREA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 120

TABLE 60 SOUTH KOREA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 120

10.2.5.3.3 By end-use industry 121

TABLE 61 SOUTH KOREA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 121

TABLE 62 SOUTH KOREA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 121

10.2.5.4 India 122

10.2.5.4.1 Digitization of water & wastewater treatment industry to create demand for distributed control systems 122

10.2.5.4.2 By component 122

TABLE 63 INDIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 122

TABLE 64 INDIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 123

10.2.5.4.3 By end-use industry 123

TABLE 65 INDIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 123

TABLE 66 INDIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 124

10.2.5.5 Rest of Asia Pacific 124

10.2.5.5.1 By component 125

TABLE 67 REST OF ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 125

TABLE 68 REST OF ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 125

10.2.5.5.2 By end-use industry 125

TABLE 69 REST OF ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 125

TABLE 70 REST OF ASIA PACIFIC: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 126

10.3 NORTH AMERICA 126

FIGURE 38 NORTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET SNAPSHOT 127

10.3.1 NORTH AMERICA: RECESSION IMPACT 127

10.3.2 BY COMPONENT 128

TABLE 71 NORTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 128

TABLE 72 NORTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 128

10.3.3 BY APPLICATION 128

TABLE 73 NORTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2017-2022 (USD MILLION) 128

TABLE 74 NORTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 129

10.3.4 BY END-USE INDUSTRY 129

TABLE 75 NORTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 129

TABLE 76 NORTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 129

10.3.5 BY COUNTRY 130

TABLE 77 NORTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COUNTRY, 2017-2022 (USD MILLION) 130

TABLE 78 NORTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COUNTRY, 2023-2028 (USD MILLION) 130

10.3.5.1 US 130

10.3.5.1.1 Rapid industrial automation to augment demand for distributed control systems 130

10.3.5.1.2 By component 131

TABLE 79 US: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 131

TABLE 80 US: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 131

10.3.5.1.3 By end-use industry 131

TABLE 81 US: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 131

TABLE 82 US: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 132

10.3.5.2 Canada 132

10.3.5.2.1 Demand from oil & gas industry to contribute to market growth 132

10.3.5.2.2 By component 133

TABLE 83 CANADA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 133

TABLE 84 CANADA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 133

10.3.5.2.3 By end-use industry 133

TABLE 85 CANADA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 133

TABLE 86 CANADA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 134

10.3.5.3 Mexico 134

10.3.5.3.1 Government push for cleaner electricity production to drive market 134

10.3.5.3.2 By component 134

TABLE 87 MEXICO: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 134

TABLE 88 MEXICO: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 135

10.3.5.3.3 By end-use industry 135

TABLE 89 MEXICO: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 135

TABLE 90 MEXICO: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 136

10.4 EUROPE 136

10.4.1 EUROPE: RECESSION IMPACT 137

10.4.2 BY COMPONENT 137

TABLE 91 EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 137

TABLE 92 EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 137

10.4.3 BY APPLICATION 137

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

TABLE 93	EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2017-2022 (USD MILLION)	137
TABLE 94	EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	138
10.4.4	BY END-USE INDUSTRY	138
TABLE 95	EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	138
TABLE 96	EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	138
10.4.5	BY COUNTRY	139
TABLE 97	EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY COUNTRY, 2017-2022 (USD MILLION)	139
TABLE 98	EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	139
10.4.5.1	Russia	139
10.4.5.1.1	Focus on strengthening oil field communications to generate demand for distributed control systems	139
10.4.5.1.2	By component	140
TABLE 99	RUSSIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION)	140
TABLE 100	RUSSIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION)	140
10.4.5.1.3	By end-use industry	141
TABLE 101	RUSSIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	141
TABLE 102	RUSSIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	141
10.4.5.2	Germany	142
10.4.5.2.1	Efforts to digitize transportation industry and manufacturing sector to drive market	142
10.4.5.2.2	By component	142
TABLE 103	GERMANY: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION)	142
TABLE 104	GERMANY: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION)	143
10.4.5.2.3	By end-use industry	143
TABLE 105	GERMANY: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	143
TABLE 106	GERMANY: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	144
10.4.5.3	France	144
10.4.5.3.1	Increasing investments in renewable energy to boost demand for distributed control systems	144
10.4.5.3.2	By component	144
TABLE 107	FRANCE: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION)	144
TABLE 108	FRANCE: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION)	145
10.4.5.3.3	By end-use industry	145
TABLE 109	FRANCE: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	145
TABLE 110	FRANCE: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	146
10.4.5.4	Italy	146
10.4.5.4.1	Upgrade of obsolete pharmaceutical plants through integration with distributed control systems to drive market	146
10.4.5.4.2	By component	146
TABLE 111	ITALY: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION)	146
TABLE 112	ITALY: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION)	147
10.4.5.4.3	By end-use industry	147
TABLE 113	ITALY: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	147
TABLE 114	ITALY: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	148
10.4.5.5	UK	148
10.4.5.5.1	Increasing investments in oil and gas industry to accelerate market growth	148
10.4.5.5.2	By component	149
TABLE 115	UK: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION)	149
TABLE 116	UK: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION)	149
10.4.5.5.3	By end-use industry	149
TABLE 117	UK: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	149

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

TABLE 118	UK: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	150
10.4.5.6	Rest of Europe	150
10.4.5.6.1	By component	151
TABLE 119	REST OF EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION)	151
TABLE 120	REST OF EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION)	151
10.4.5.6.2	By end-use industry	151
TABLE 121	REST OF EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	151
TABLE 122	REST OF EUROPE: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	152
10.5	MIDDLE EAST	152
10.5.1	MIDDLE EAST: RECESSION IMPACT	152
10.5.2	BY COMPONENT	153
TABLE 123	MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION)	153
TABLE 124	MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION)	153
10.5.3	BY APPLICATION	153
TABLE 125	MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2017-2022 (USD MILLION)	153
TABLE 126	MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	154
10.5.4	BY END-USE INDUSTRY	154
TABLE 127	MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	154
TABLE 128	MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	155
10.5.5	BY COUNTRY	155
TABLE 129	MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY COUNTRY, 2017-2022 (USD MILLION)	155
TABLE 130	MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	156
10.5.5.1	UAE	156
10.5.5.1.1	Demand from domestic oil & gas industry to drive market	156
10.5.5.1.2	By component	156
TABLE 131	UAE: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION)	156
TABLE 132	UAE: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION)	157
10.5.5.1.3	By end-use industry	157
TABLE 133	UAE: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	157
TABLE 134	UAE: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	158
10.5.5.2	Qatar	158
10.5.5.2.1	Booming domestic LNG industry to drive market	158
10.5.5.2.2	By component	158
TABLE 135	QATAR: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION)	158
TABLE 136	QATAR: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION)	159
10.5.5.2.3	By end-use industry	159
TABLE 137	QATAR: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	159
TABLE 138	QATAR: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	160
10.5.5.3	Saudi Arabia	160
10.5.5.3.1	Demand from power generation and oil & gas industries to foster market growth	160
10.5.5.3.2	By component	161
TABLE 139	SAUDI ARABIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION)	161
TABLE 140	SAUDI ARABIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION)	161
10.5.5.3.3	By end-use industry	161
TABLE 141	SAUDI ARABIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION)	161
TABLE 142	SAUDI ARABIA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION)	162
10.5.5.4	Kuwait	162

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

10.5.5.4.1 Increasing installation of distributed control systems in industrial plants to propel market growth 162

10.5.5.4.2 By component 163

TABLE 143 KUWAIT: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 163

TABLE 144 KUWAIT: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 163

10.5.5.4.3 By end-use industry 163

TABLE 145 KUWAIT: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 163

TABLE 146 KUWAIT: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 164

10.5.5.5 Rest of Middle East 164

10.5.5.5.1 By component 165

TABLE 147 REST OF MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 165

TABLE 148 REST OF MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 165

10.5.5.5.2 By end-use industry 165

TABLE 149 REST OF MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 165

TABLE 150 REST OF MIDDLE EAST: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 166

10.6 SOUTH AMERICA 166

10.6.1 SOUTH AMERICA: RECESSION IMPACT 167

10.6.2 BY COMPONENT 167

TABLE 151 SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 167

TABLE 152 SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 167

10.6.3 BY APPLICATION 168

TABLE 153 SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2017-2022 (USD MILLION) 168

TABLE 154 SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 168

10.6.4 BY END-USE INDUSTRY 168

TABLE 155 SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 168

TABLE 156 SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 169

10.6.5 BY COUNTRY 169

TABLE 157 SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COUNTRY, 2017-2022 (USD MILLION) 169

TABLE 158 SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COUNTRY, 2023-2028 (USD MILLION) 169

10.6.5.1 Argentina 170

10.6.5.1.1 Increasing deployment of distributed control systems in oil & gas industry to drive market 170

10.6.5.1.2 By component 170

TABLE 159 ARGENTINA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 170

TABLE 160 ARGENTINA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 170

10.6.5.1.3 By end-use industry 171

TABLE 161 ARGENTINA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 171

TABLE 162 ARGENTINA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 171

10.6.5.2 Venezuela 172

10.6.5.2.1 Decline in crude oil prices to affect market growth 172

10.6.5.2.2 By component 172

TABLE 163 VENEZUELA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 172

TABLE 164 VENEZUELA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 172

10.6.5.2.3 By end-use industry 173

TABLE 165 VENEZUELA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 173

TABLE 166 VENEZUELA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 173

10.6.5.3 Brazil 174

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

10.6.5.3.1 Government initiatives to develop distributed energy generation sector to boost market 174

10.6.5.3.2 By component 174

TABLE 167 BRAZIL: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 174

TABLE 168 BRAZIL: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 175

10.6.5.3.3 By end-use industry 175

TABLE 169 BRAZIL: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 175

TABLE 170 BRAZIL: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 176

10.6.5.4 Rest of South America 176

10.6.5.4.1 By component 177

TABLE 171 REST OF SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2017-2022 (USD MILLION) 177

TABLE 172 REST OF SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY COMPONENT, 2023-2028 (USD MILLION) 177

10.6.5.4.2 By end-use industry 177

TABLE 173 REST OF SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2017-2022 (USD MILLION) 177

TABLE 174 REST OF SOUTH AMERICA: DISTRIBUTED CONTROL SYSTEM MARKET, BY END-USE INDUSTRY, 2023-2028 (USD MILLION) 178

**Scotts International. EU Vat number: PL 6772247784**

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

www.scotts-international.com

**Distributed Control System Market by Component (Hardware, Software, Services),  
Application (Continuous, Batch-Oriented), End-user (Oil & Gas, Power Generation,  
Chemical, Food & Beverages, Pharmaceutical, Metal & Mining), Region - Global  
Forecast to 2028**

Market Report | 2023-07-25 | 262 pages | MarketsandMarkets

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
	Single User	\$4950.00
	Multi User	\$6650.00
	Corporate License	\$8150.00
	Enterprise Site License	\$10000.00
		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"/>
Address*	<input type="text"/>	City*	<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

Zip Code\*

Country\*

Date

2026-03-11

Signature

**Scotts International. EU Vat number: PL 6772247784**

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

[www.scotts-international.com](http://www.scotts-international.com)