

**Microgrid Market by Connectivity (Grid-connected, Off-grid), Offering (Power Generators, Controllers, Energy Storage, Software, Services), End User (Commercial & Industrial, Military, Utilities), Type, Power Rating & Geography - Global Forecast to 2027**

Market Report | 2022-07-05 | 294 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 microgrid market size is estimated to be USD 26.9 billion in 2022 and is projected to reach USD 63.2 billion by 2027, at a CAGR of 18.6% during the forecast period. Some of the major factors contributing to the growth of microgrid market includes the increasing number of microgrid projects across different industries, surging energy demand and adoption of renewable energy in Asia Pacific, growing interest of investors in EaaS business model to minimize costs, and rising encouragement from governments for developing microgrid projects.

"Grid-connected microgrids accounted for larger share, due to expansion of utility-based grid networks and use of renewable sources"

The grid connected segment likely to hold largest market share and expected to grow at the highest CAGR during the forecast period. Grid-connected microgrids are physically connected to the utility grid via a switching mechanism at the point of common coupling (PCC), but they can also disconnect into island mode and reconnect to the main grid when required. Grid-connected microgrids contain multiple generators, distribution systems, and sophisticated controls. Furthermore, these technologies enhance grid resiliency, enhance power quality, and reduce their environmental effects, in addition to improving grid reliability. This results in an increase in demand.

"Microgrid software market likely to witness higher growth between 2022 and 2027"

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

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

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

The microgrid software market is projected to record the highest growth rate during the forecast period. Software used in microgrids established in remote locations allows microgrid operators to dynamically manage and control distributed energy resources with integrated weather and load forecasting. The hosted software services used by microgrids eliminate the requirement for onsite hosting of the IT infrastructures. This is expected to drive the growth of the microgrid software market in the near future.

"The power generators for microgrid hardware segment likely to witness highest market share between 2022 and 2027"

The power generators segment held the largest size of the microgrid hardware market in 2021 and expected to dominate the microgrid hardware segment during the forecast period. The use of renewable sources of energy such as PV cells, wind turbines, and hydro turbines for power generation is one of the prominent factors contributing to the growth of the microgrid hardware market globally. Other advantages of integrating renewable sources of energy with microgrids are reduced emissions of greenhouse gases and lowered dependency on local or imported fuels.

Americas likely to be the largest market during the forecast period between 2022 and 2027.

The microgrid market in the Americas has been studied for North America and South America. North America accounted for ~70% share in the overall Americas microgrid market in 2021. Countries such as US, and Canada have formulated number of policies to enhance the establishment of microgrids. The US is leading the microgrid market in Americas. The US and Canadian governments are initiating several funding programs and investments to expand decentralized grids; this is supporting the adoption and development of microgrids in these countries. An increase in the adoption of renewable sources of energy for electricity generation and the flexibility of microgrids in terms of using multiple power sources for electricity generation are also driving the growth of the microgrid market in the region.

A variety of executives from key organizations operating in the microgrid market were interviewed in-depth, including CEOs, marketing directors, and innovation and technology directors.□

-□By Company Type: Tier 1 = 50%, Tier 2 = 30%, and Tier 3 = 20%

-□By Designation: C-level Executives = 35%, Directors = 30%, and Others (sales, marketing, and product managers, as well as members of various organizations) = 35%

-□By Region: Americas = 40%, Europe= 25%, APAC=20%, and ROW=15%

Schneider Electric (France), General Electric (US), Siemens (Germany), Eaton Corporation (US), ABB (Switzerland), Hitachi Energy (Switzerland), Honeywell International Inc. (US), HOMER Energy (US), S&C Electric (US), Power Analytics (US) are the key players in the microgrid market. These top players have strong portfolios of products and services and a presence in both mature and emerging markets.

The study includes an in-depth competitive analysis of these key players in the microgrid market, with their company profiles, recent developments, and key market strategies.

#### Research Coverage

This report offers detailed insights into the microgrid market based on connectivity (grid connected, off-grid connected), offering (hardware, software, services), type (AC microgrids, DC microgrids, hybrid), patterns (urban/metropolitan, semiurban, rural areas/

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

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

www.scotts-international.com

islands), power source (natural gas, solar PV, combined heat and power, diesel, fuel cell, and others), power rating ( less than 1 MW, 1 MW to 5 MW, 5 MW to 10 MW, and above 10 MW), end use (commercial & industrial, remote, institutes & campuses, government, utilities, military, and healthcare), and region (Americas, Europe, Asia Pacific (APAC), and Rest of the World (RoW) which includes the Middle East and Africa (MEA)) and Africa.

The report also provides a comprehensive review of microgrid market drivers, restraints, opportunities, and challenges in the market. The report also covers qualitative aspects in addition to the quantitative aspects of these markets.

#### Key Benefits of Buying the Report

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the microgrid market and provides them information on key market drivers, restraints, challenges, and opportunities.

#### Table of Contents:

1	INTRODUCTION	23
1.1	STUDY OBJECTIVES	23
1.2	DEFINITION AND SCOPE	23
1.2.1	INCLUSIONS AND EXCLUSIONS: OFFERING SEGMENT	24
1.2.2	INCLUSIONS AND EXCLUSIONS: OTHER SEGMENTS	24
1.3	STUDY SCOPE	25
1.3.1	MARKETS COVERED	25
	FIGURE 1	MARKET SEGMENTATION
1.3.2	REGIONAL SCOPE	25
1.3.3	YEARS CONSIDERED	26
1.4	CURRENCY	26
1.5	UNIT CONSIDERED	26
1.6	LIMITATIONS	26
1.7	STAKEHOLDERS	26
1.8	SUMMARY OF CHANGES	27
2	RESEARCH METHODOLOGY	28
2.1	RESEARCH DATA	28
	FIGURE 2	MICROGRID MARKET: RESEARCH DESIGN
2.1.1	SECONDARY DATA	29
2.1.1.1	Major secondary sources	29
2.1.1.2	Key data from secondary sources	30
2.1.2	PRIMARY DATA	30
2.1.2.1	Primary interviews with experts	30
2.1.2.2	List of key primary interview participants	31
2.1.2.3	Breakdown of primaries	31
2.1.2.4	Key data from primary sources	32
2.1.3	SECONDARY AND PRIMARY RESEARCH	33
2.1.3.1	Key industry insights	33
2.2	MARKET SIZE ESTIMATION	34
2.2.1	BOTTOM-UP APPROACH	34
2.2.1.1	Approach used to arrive at market size using bottom-up analysis	34

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

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

www.scotts-international.com

FIGURE 3	MARKET SIZE ESTIMATION METHODOLOGY: BOTTOM-UP APPROACH	34
2.2.1.2	Approach for obtaining company-specific information in microgrid value chain	35
2.2.2	TOP-DOWN APPROACH	35
2.2.2.1	Approach used to arrive at market size using top-down analysis	35
FIGURE 4	MARKET SIZE ESTIMATION METHODOLOGY: TOP-DOWN APPROACH	35
2.3	FACTOR ANALYSIS	36
2.3.1	MICROGRID MARKET: SUPPLY-SIDE ANALYSIS	36
FIGURE 5	MARKET SIZE ESTIMATION METHODOLOGY: (SUPPLY SIDE): REVENUE GENERATED FROM SALES OF MICROGRIDS	36
FIGURE 6	MARKET SIZE ESTIMATION METHODOLOGY: (SUPPLY SIDE): REVENUE FROM MICROGRID HARDWARE, SOFTWARE, AND SERVICES	37
2.3.2	MICROGRID MARKET: DEMAND-SIDE ANALYSIS	38
FIGURE 7	MARKET SIZE ESTIMATION METHODOLOGY: (DEMAND SIDE): BOTTOM-UP APPROACH FOR ESTIMATION OF SIZE OF MICROGRID MARKET BASED ON REGION	38
FIGURE 8	MARKET SIZE ESTIMATION METHODOLOGY: DEMAND-SIDE ANALYSIS (COUNTRY LEVEL)	39
2.3.3	GROWTH FORECAST ASSUMPTIONS	40
TABLE 1	MICROGRID MARKET: KEY FORECASTING ASSUMPTIONS	40
2.4	DATA TRIANGULATION	41
FIGURE 9	DATA TRIANGULATION METHODOLOGY	41
2.5	ASSUMPTIONS	42
TABLE 2	KEY ASSUMPTIONS: MACRO- AND MICRO-ECONOMIC ENVIRONMENT	42
2.6	RISK ASSESSMENT	43
TABLE 3	RISK ASSESSMENT: MICROGRID MARKET	43
3	EXECUTIVE SUMMARY	44
3.1	REALISTIC SCENARIO (POST-COVID-19)	44
3.2	OPTIMISTIC SCENARIO (POST-COVID-19)	45
3.3	PESSIMISTIC SCENARIO (POST-COVID-19)	45
FIGURE 10	MICROGRID MARKET: OPTIMISTIC, REALISTIC, AND PESSIMISTIC SCENARIO ANALYSIS, 2018-2027 (USD BILLION)	45
FIGURE 11	MICROGRID MARKET FOR GRID-CONNECTED SEGMENT TO RECORD HIGHER GROWTH RATE DURING FORECAST PERIOD	46
FIGURE 12	HARDWARE SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE OF MICROGRID MARKET DURING FORECASTING PERIOD	46
FIGURE 13	CONTROLLERS TO RECORD HIGHEST CAGR IN MICROGRID HARDWARE MARKET FROM 2022 TO 2027	47
FIGURE 14	MICROGRID MARKET FOR COMMERCIAL & INDUSTRIAL END USER TO HOLD LARGEST SHARE IN 2027	48
FIGURE 15	MICROGRIDS WITH POWER RATINGS BETWEEN 1 MW TO 5 MW HOLD LARGEST MARKET SHARE	48
FIGURE 16	MICROGRID MARKET IN ASIA PACIFIC TO RECORD HIGHEST CAGR DURING FORECAST PERIOD	49
4	PREMIUM INSIGHTS	50
4.1	ATTRACTIVE GROWTH OPPORTUNITIES IN MICROGRID MARKET	50
FIGURE 17	INCREASING DEMAND FOR UNINTERRUPTED AND RELIABLE POWER SUPPLY DRIVING MICROGRID MARKET	50
4.2	MICROGRID MARKET, BY OFFERING	50
FIGURE 18	HARDWARE TO HOLD LARGEST SHARE OF MICROGRID MARKET IN 2022 AND 2027	50
4.3	MICROGRID MARKET, BY HARDWARE TYPE	51
FIGURE 19	POWER GENERATORS TO ACCOUNT FOR LARGEST SIZE OF MICROGRID HARDWARE MARKET FROM 2022 TO 2027	51
4.4	MICROGRID MARKET, BY CONNECTIVITY	51
FIGURE 20	GRID-CONNECTED MICROGRIDS TO ACCOUNT FOR LARGER SHARE OF MARKET FROM 2022 TO 2027	51
4.5	MICROGRID MARKET, BY POWER RATING	52
FIGURE 21	MICROGRIDS WITH POWER RATINGS FROM 1 MW TO 5 MW ARE LIKELY TO ACCOUNT FOR LARGEST MARKET SIZE FROM	

2022 TO 2027 52

4.6 MICROGRID MARKET, BY END USER 52

FIGURE 22 COMMERCIAL & INDUSTRIAL TO ACCOUNT FOR LARGEST SIZE OF MICROGRID MARKET FROM 2022 TO 2027 52

5 MARKET OVERVIEW 53

5.1 INTRODUCTION 53

5.2 MARKET DYNAMICS 53

FIGURE 23 MICROGRID MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES,  
AND CHALLENGES 53

5.2.1 DRIVERS 54

5.2.1.1 Increasing emphasis on decarbonization by end users and governments 54

FIGURE 24 GLOBAL SOLAR PV AND WIND INSTALLATIONS, 2018-2027 IN GIGAWATTS (GW) 55

FIGURE 25 GLOBAL INVESTMENTS IN CLEAN ENERGY AND ENERGY EFFICIENCY, 2018-2021 55

5.2.1.2 Growing need for reliable, uninterrupted power supply 55

5.2.1.3 Surging use of microgrids for rural electrification 56

5.2.1.4 Rising instances of cyberattacks on energy infrastructure 56

FIGURE 26 DRIVERS AND THEIR IMPACT ON MICROGRID MARKET 57

5.2.2 RESTRAINTS 57

5.2.2.1 Huge installation and maintenance costs of microgrids 57

FIGURE 27 RESTRAINTS AND THEIR IMPACT ON MICROGRID MARKET 58

5.2.3 OPPORTUNITIES 58

5.2.3.1 Increasing number of microgrid projects across different industries 58

5.2.3.2 Surging energy demand and adoption of renewable energy in Asia Pacific 59

5.2.3.3 Growing interest of investors in EaaS business model to minimize costs 59

TABLE 4 BUSINESS MODEL OF COMPANIES IN MICROGRID ECOSYSTEM 60

5.2.3.4 Rising encouragement from governments for developing microgrid projects 60

FIGURE 28 OPPORTUNITIES AND THEIR IMPACT ON MICROGRID MARKET 61

?

5.2.4 CHALLENGES 61

5.2.4.1 Lack of standardization and regulatory frameworks related to microgrid operations 61

5.2.4.2 Technical challenges of microgrids operating in island mode 61

FIGURE 29 CHALLENGES AND THEIR IMPACT ON MICROGRID MARKET 62

5.3 VALUE CHAIN ANALYSIS 62

FIGURE 30 MICROGRID MARKET: VALUE CHAIN ANALYSIS 62

5.4 MICROGRID MARKET ECOSYSTEM 63

TABLE 5 MICROGRID MARKET: ECOSYSTEM 64

FIGURE 31 KEY PLAYERS IN MICROGRID MARKET ECOSYSTEM 65

5.5 PRICING ANALYSIS 66

FIGURE 32 AVERAGE MICROGRID COST, BY END USER AND PROJECT SIZE 66

TABLE 6 AVERAGE COST OF MICROGRID PROJECTS FOR TOP 3 APPLICATIONS (USD MILLION/MW) 66

5.5.1 ANALYSIS AND TREND OF AVERAGE MICROGRID COST 67

FIGURE 33 MICROGRID MARKET: AVERAGE COST OF MICROGRID PROJECTS 67

5.6 TRENDS/DISRUPTIONS IMPACTING CUSTOMER'S BUSINESS 67

FIGURE 34 REVENUE SHIFT FOR MICROGRID MARKET 67

5.7 KEY TECHNOLOGY TRENDS 68

5.7.1 BLOCKCHAIN-BASED MICROGRIDS/BLOCKCHAIN MICROGRIDS 68

5.7.2 SMART MICROGRIDS 68

5.7.3 ADVENT OF AI-BASED MICROGRIDS 68

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

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

www.scotts-international.com

5.8	PORTER'S FIVE FORCES ANALYSIS	69
FIGURE 35	MICROGRID MARKET: PORTER'S FIVE FORCES ANALYSIS	69
FIGURE 36	IMPACT OF PORTER'S FIVE FORCES ON MICROGRID MARKET	69
TABLE 7	IMPACT OF PORTER'S 5 FORCES ON MICROGRID MARKET	70
5.8.1	THREAT OF NEW ENTRANTS	70
5.8.2	THREAT OF SUBSTITUTES	70
5.8.3	BARGAINING POWER OF SUPPLIERS	70
5.8.4	BARGAINING POWER OF BUYERS	71
5.8.5	INTENSITY OF COMPETITIVE RIVALRY	71
5.9	KEY STAKEHOLDERS & BUYING CRITERIA	71
5.9.1	KEY STAKEHOLDERS IN BUYING PROCESS	71
FIGURE 37	INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR TOP 3 END USERS	71
TABLE 8	INFLUENCE OF STAKEHOLDERS IN BUYING PROCESS FOR TOP 3 END USERS (%)	72
5.9.2	BUYING CRITERIA	72
FIGURE 38	KEY BUYING CRITERIA FOR TOP 3 END USERS	72
TABLE 9	KEY BUYING CRITERIA FOR TOP 3 END USERS	72
5.10	CASE STUDIES: MICROGRID MARKET	73
5.10.1	GE PROVIDED CAMPUS-BASED MICROGRID SYSTEM TO UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY (CANADA)	73
TABLE 10	GE INSTALLED BATTERY ENERGY STORAGE SYSTEM FOR UNIVERSITY OF ONTARIO INSTITUTE OF TECHNOLOGY CAMPUS	73
5.10.2	GE PROVIDED SYSTEMS OFFERING RESILIENT, RELIABLE POWER FOR NAVY SHIPYARD PROJECT IN PHILADELPHIA (US)	73
TABLE 11	GE: MICROGRID ENERGY MANAGEMENT SYSTEM FOR NAVY SHIPYARD PROJECT IN PHILADELPHIA	73
5.10.3	SOLAR ONE ENERGY USED HOMER GRID TO MODEL ENERGY COSTS FOR ACE NATURAL	74
TABLE 12	HOMER ENERGY PROVIDED HOMER GRID SOFTWARE FOR SOLAR ONE ENERGY	74
5.10.4	S&C ELECTRIC SUPPLIED SERVICES FOR HALF MOON VENTURES' PROJECT	74
TABLE 13	S&C ELECTRIC COMPANY PROVIDED ENERGY STORAGE FOR MICROGRID PROJECT BY HALF MOON VENTURES IN WESTERN OHIO, US	74
5.10.5	ERGON ENERGY PARTNERED WITH S&C ELECTRIC COMPANY	75
TABLE 14	S&C ELECTRIC PROVIDED ENERGY STORAGE SYSTEMS FOR MICROGRIDS OF ERGON ENERGY	75
5.11	TRADE ANALYSIS	76
TABLE 15	IMPORT DATA FOR ELECTRIC MOTORS AND GENERATORS (EXCLUDING GENERATING SETS), HS CODE: 8501 (USD MILLION)	76
FIGURE 39	ELECTRIC MOTORS AND GENERATORS (EXCLUDING GENERATING SETS), IMPORT VALUES FOR MAJOR COUNTRIES, 2017-2021	76
TABLE 16	EXPORT DATA FOR ELECTRIC MOTORS AND GENERATORS (EXCLUDING GENERATING SETS), HS CODE: 8501 (USD MILLION)	77
FIGURE 40	ELECTRIC MOTORS AND GENERATORS (EXCLUDING GENERATING SETS), EXPORT VALUES FOR MAJOR COUNTRIES, 2017-2021	77
TABLE 17	IMPORT DATA FOR ELECTRONIC-INTEGRATED CIRCUITS AS PROCESSORS AND CONTROLLERS, HS CODE: 854231 (USD MILLION)	78
FIGURE 41	ELECTRONIC-INTEGRATED CIRCUITS AS PROCESSORS AND CONTROLLERS, IMPORT VALUES FOR MAJOR COUNTRIES, 2017-2021	78
TABLE 18	EXPORT DATA FOR ELECTRONIC-INTEGRATED CIRCUITS AS PROCESSORS AND CONTROLLERS, HS CODE: 854231 (USD MILLION)	79
FIGURE 42	ELECTRONIC-INTEGRATED CIRCUITS AS PROCESSORS AND CONTROLLERS, EXPORT VALUES FOR MAJOR COUNTRIES, 2017-2021	79

5.12	PATENT ANALYSIS	80
FIGURE 43	NUMBER OF PATENTS GRANTED IN MICROGRID MARKET, 2011-2021	80
FIGURE 44	REGIONAL ANALYSIS OF PATENTS GRANTED FOR MICROGRIDS, 2011-2021	81
TABLE 19	LIST OF KEY PATENTS IN MICROGRID MARKET, 2020-2022	81
5.13	KEY CONFERENCES AND EVENTS IN 2022-2024	83
TABLE 20	MICROGRID MARKET: DETAILED LIST OF CONFERENCES AND EVENTS	83
5.14	TARIFFS AND REGULATORY LANDSCAPE	87
5.14.1	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	87
TABLE 21	LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	87
5.14.2	CODES AND STANDARDS RELATED TO MICROGRIDS	89
TABLE 22	CODES AND STANDARDS RELATED TO MICROGRIDS	89
6	MICROGRID MARKET, BY CONNECTIVITY	90
6.1	INTRODUCTION	91
FIGURE 45	MICROGRID MARKET, BY CONNECTIVITY	91
TABLE 23	MICROGRID MARKET, BY CONNECTIVITY, 2018-2021 (USD BILLION)	91
FIGURE 46	GRID-CONNECTED MICROGRIDS TO RECORD HIGHER GROWTH RATE DURING FORECAST PERIOD	92
TABLE 24	MICROGRID MARKET, BY CONNECTIVITY, 2022-2027 (USD BILLION)	92
6.2	GRID-CONNECTED	93
6.2.1	GRID-CONNECTED MICROGRIDS ACCOUNTED FOR LARGER SHARE DUE TO EXPANSION OF UTILITY-BASED GRID NETWORKS AND USE OF RENEWABLE SOURCES	93
TABLE 25	GRID-CONNECTED MICROGRID MARKET, BY REGION, 2018-2021 (USD BILLION)	93
FIGURE 47	ASIA PACIFIC TO RECORD HIGHEST GROWTH RATE IN GRID-CONNECTED MICROGRID MARKET DURING FORECAST PERIOD	94
TABLE 26	GRID-CONNECTED MICROGRID MARKET, BY REGION, 2022-2027 (USD BILLION)	94
6.3	OFF-GRID	95
6.3.1	GROWING OFF-GRID SOLAR PROJECTS TO CREATE NEW MARKET OPPORTUNITIES IN COMING YEARS	95
TABLE 27	OFF-GRID MICROGRID MARKET, BY REGION, 2018-2021 (USD BILLION)	95
FIGURE 48	AMERICAS HOLDS LARGEST MARKET SIZE IN OFF-GRID MICROGRID MARKET IN 2022	96
TABLE 28	OFF-GRID MICROGRID MARKET, BY REGION, 2022-2027 (USD BILLION)	96
7	MICROGRID MARKET, BY OFFERING	97
7.1	INTRODUCTION	98
FIGURE 49	MICROGRID MARKET, BY OFFERING	98
TABLE 29	MICROGRID MARKET, BY OFFERING, 2018-2021 (USD BILLION)	98
FIGURE 50	SOFTWARE TO RECORD HIGHEST GROWTH RATE DURING FORECAST PERIOD	99
TABLE 30	MICROGRID MARKET, BY OFFERING, 2022-2027 (USD BILLION)	99
TABLE 31	MICROGRID HARDWARE MARKET, BY TYPE, 2018-2021 (USD BILLION)	99
TABLE 32	MICROGRID HARDWARE MARKET, BY TYPE, 2022-2027 (USD BILLION)	100
7.2	HARDWARE	100
FIGURE 51	MICROGRID HARDWARE MARKET, BY TYPE	100
TABLE 33	MICROGRID HARDWARE MARKET, BY REGION, 2018-2021 (USD BILLION)	101
FIGURE 52	MICROGRID HARDWARE MARKET IN ASIA PACIFIC TO RECORD HIGHEST GROWTH RATE DURING FORECAST PERIOD	101
TABLE 34	MICROGRID HARDWARE MARKET, BY REGION, 2022-2027 (USD BILLION)	101
7.2.1	POWER GENERATORS	102
7.2.1.1	Power generators to account for largest share of microgrid hardware market during forecast period	102
TABLE 35	MICROGRID HARDWARE MARKET FOR POWER GENERATORS, BY REGION, 2018-2021 (USD BILLION)	103

TABLE 36	MICROGRID HARDWARE MARKET FOR POWER GENERATORS, BY REGION, 2022-2027 (USD BILLION)	103
7.2.2	ENERGY STORAGE SYSTEMS	103
7.2.2.1	Growing need for energy storage systems to optimize power delivery	103
TABLE 37	MICROGRID HARDWARE MARKET FOR ENERGY STORAGE SYSTEMS, BY REGION, 2018-2021 (USD BILLION)	104
TABLE 38	MICROGRID HARDWARE MARKET FOR ENERGY STORAGE SYSTEMS, BY REGION, 2022-2027 (USD BILLION)	104
7.2.2.2	Lithium-ion batteries	104
7.2.2.3	Flow batteries	105
7.2.2.4	Flywheels	106
7.2.2.5	Others	106
7.2.3	CONTROLLERS	107
7.2.3.1	Controllers are required to monitor and optimally carry out different functions of microgrids	107
TABLE 39	MICROGRID HARDWARE MARKET FOR CONTROLLERS, BY REGION, 2018-2021 (USD BILLION)	108
TABLE 40	MICROGRID HARDWARE MARKET FOR CONTROLLERS, BY REGION, 2022-2027 (USD BILLION)	108
7.3	SOFTWARE	108
7.3.1	USE OF SOFTWARE IN MICROGRID PROJECTS HELPS SIMPLIFY TECHNICAL AND ECONOMIC FACTORS	108
TABLE 41	MICROGRID SOFTWARE MARKET, BY REGION, 2018-2021 (USD BILLION)	109
FIGURE 53	MICROGRID SOFTWARE MARKET IN AMERICAS TO ACCOUNT FOR LARGEST SHARE DURING FORECAST PERIOD	109
TABLE 42	MICROGRID SOFTWARE MARKET, BY REGION, 2022-2027 (USD BILLION)	110
7.4	SERVICES	110
7.4.1	RIISING NUMBER OF MICROGRID INSTALLATIONS CREATES NEW OPPORTUNITIES FOR SERVICES	110
TABLE 43	MICROGRID MARKET FOR SERVICES, BY REGION, 2018-2021 (USD BILLION)	111
FIGURE 54	MICROGRID SERVICES MARKET IN ASIA PACIFIC TO RECORD HIGHEST GROWTH RATE DURING FORECAST PERIOD	111
TABLE 44	MICROGRID MARKET FOR SERVICES, BY REGION, 2022-2027 (USD BILLION)	112
8	MICROGRID MARKET, BY POWER SOURCE	113
8.1	INTRODUCTION	113
FIGURE 55	MICROGRID MARKET, BY POWER SOURCE	113
FIGURE 56	GLOBAL MICROGRID PROJECT DEPLOYMENT TREND, BY POWER SOURCE, 2021 VS. 2027	114
8.2	NATURAL GAS	114
8.3	SOLAR PV	115
8.4	COMBINED HEAT AND POWER	115
8.5	DIESEL	116
?		
8.6	FUEL CELL	116
8.7	OTHERS	117
9	MICROGRID MARKET, BY PATTERN	118
9.1	INTRODUCTION	118
9.2	URBAN/METROPOLITAN	118
9.2.1	INCREASING DEVELOPMENT OF MICROGRIDS IN URBAN AREAS BOOSTING MARKET GROWTH	118
FIGURE 57	DRIVERS OF MICROGRID MARKET IN URBAN/METROPOLITAN AREAS	119
9.3	SEMIURBAN	119
9.3.1	GROWING INITIATIVES TO DEVELOP MICROGRIDS FOR SEMIURBAN AREAS IN VARIOUS COUNTRIES DRIVING MARKET	119



9.4	RURAL/ISLAND	120
9.4.1	RIISING NUMBER OF ELECTRIFICATION PROJECTS LEADING TO GROWTH OF MICROGRID MARKET	120
10	MICROGRID MARKET, BY TYPE	121
10.1	INTRODUCTION	121
	FIGURE 58 MICROGRID MARKET, BY TYPE	121
10.2	AC MICROGRIDS	122
10.2.1	ELIMINATE INVERTER REQUIREMENT FOR POWER SUPPLY TO AC LOADS	122
10.3	DC MICROGRIDS	122
10.3.1	OFFER HIGHER EFFICIENCY, RELIABILITY, AND STABILITY	122
10.4	HYBRID MICROGRIDS	123
10.4.1	USE OF DIFFERENT ENERGY SOURCES FOR POWER GENERATION REDUCES DEPENDENCE ON FOSSIL FUEL	123
11	MICROGRID MARKET, BY POWER RATING	124
11.1	INTRODUCTION	125
	FIGURE 59 1 MW TO 5 MW MICROGRID POWER RATING TO HOLD LARGEST MARKET SHARE DURING FORECAST PERIOD	125
	TABLE 45 MICROGRID MARKET, BY POWER RATING, 2018-2021 (USD BILLION)	125
	TABLE 46 MICROGRID MARKET, BY POWER RATING, 2022-2027 (USD BILLION)	126
11.2	LESS THAN 1 MW	126
11.2.1	REMOTE AREAS, GOVERNMENTS, AND UTILITIES USE MICROGRIDS WITH POWER RATINGS OF LESS THAN 1 MW	126
11.3	1 MW TO 5 MW	126
11.3.1	GROWTH OF MARKET FOR MICROGRID SYSTEMS WITH POWER RATINGS BETWEEN 1 MW AND 5 MW FUELLED BY INCREASING DEPLOYMENT IN COMMERCIAL AND INDUSTRIAL SECTOR	126
11.4	5 MW TO 10 MW	127
11.4.1	MICROGRIDS WITH POWER RATINGS BETWEEN 5 MW TO 10 MW MEET HIGH-POWER REQUIREMENTS IN UNIVERSITIES, SMART CITIES, AND COMMERCIAL APPLICATIONS	127
	?	
11.5	ABOVE 10 MW	127
11.5.1	SECTORS WITH HIGH POWER REQUIREMENTS UTILIZE MICROGRID SYSTEMS WITH POWER RATINGS ABOVE 10 MW	127
12	MICROGRID MARKET, BY END USER	128
12.1	INTRODUCTION	129
	FIGURE 60 MICROGRID MARKET, BY END USER	129
	TABLE 47 MICROGRID MARKET, BY END USER, 2018-2021 (USD BILLION)	130
	FIGURE 61 COMMERCIAL & INDUSTRIAL SEGMENT TO RECORD HIGHEST GROWTH RATE DURING FORECAST PERIOD	130
	TABLE 48 MICROGRID MARKET, BY END USER, 2022-2027 (USD BILLION)	131
12.2	COMMERCIAL & INDUSTRIAL	131
12.2.1	REQUIREMENT FOR UNINTERRUPTED ELECTRICITY SUPPLY IN COMMERCIAL AND INDUSTRIAL SECTOR TO DRIVE MARKET	131
	TABLE 49 MICROGRID MARKET FOR COMMERCIAL & INDUSTRIAL END USER, BY REGION, 2018-2021 (USD BILLION)	132
	FIGURE 62 COMMERCIAL & INDUSTRIAL SECTOR IN ASIA PACIFIC TO RECORD HIGHEST GROWTH RATE DURING FORECAST PERIOD	132
	TABLE 50 MICROGRID MARKET FOR COMMERCIAL & INDUSTRIAL, BY REGION, 2022-2027 (USD BILLION)	133
12.3	REMOTE AREAS	133
12.3.1	SURGE IN DEPLOYMENT OF MICROGRID PROJECTS IN REMOTE AREAS DUE TO UNAVAILABILITY OF MAIN UTILITY-GRID SYSTEMS FOR ENERGY DISTRIBUTION TO BOOST MARKET	133
	TABLE 51 MICROGRID MARKET FOR REMOTE AREAS, BY REGION, 2018-2021 (USD BILLION)	134
	FIGURE 63 REMOTE AREAS SEGMENT IN ASIA PACIFIC TO RECORD HIGHEST GROWTH RATE DURING FORECAST PERIOD	134

TABLE 52	MICROGRID MARKET FOR REMOTE AREAS, BY REGION, 2022-2027 (USD BILLION)	134
12.4	MILITARY	135
12.4.1	WIDE USE OF MICROGRIDS FOR ENERGY SECURITY AND RESILIENCY TO PROPEL MARKET GROWTH	135
TABLE 53	MICROGRID MARKET FOR MILITARY, BY REGION, 2018-2021 (USD BILLION)	135
FIGURE 64	MILITARY SEGMENT IN AMERICAS TO ACCOUNT FOR LARGEST SHARE IN 2022	136
TABLE 54	MICROGRID MARKET FOR MILITARY, BY REGION, 2022-2027 (USD BILLION)	136
12.5	GOVERNMENT	137
12.5.1	DECLINE IN PRICES OF ELECTRICITY GENERATED FROM RENEWABLE ENERGY SOURCES LEADS TO RISING ADOPTION OF MICROGRIDS	137
TABLE 55	MICROGRID MARKET FOR GOVERNMENT, BY REGION, 2018-2021 (USD BILLION)	137
TABLE 56	MICROGRID MARKET FOR GOVERNMENT, BY REGION, 2022-2027 (USD BILLION)	137
12.6	UTILITIES	138
12.6.1	MICROGRIDS PROVIDE UTILITIES WITH LESS EXPENSIVE ALTERNATIVE	138
TABLE 57	MICROGRID MARKET FOR UTILITIES, BY REGION, 2018-2021 (USD BILLION)	138
FIGURE 65	UTILITIES SEGMENT IN AMERICAS TO RECORD HIGHEST GROWTH RATE DURING FORECAST PERIOD	139
TABLE 58	MICROGRID MARKET FOR UTILITIES, BY REGION, 2022-2027 (USD BILLION)	139
12.7	INSTITUTES & CAMPUSES	139
12.7.1	INCREASED ADOPTION OF MICROGRIDS TO ENSURE UNINTERRUPTED POWER SUPPLY	139
TABLE 59	MICROGRID MARKET FOR INSTITUTES & CAMPUSES, BY REGION, 2018-2021 (USD BILLION)	140
TABLE 60	MICROGRID MARKET FOR INSTITUTES & CAMPUSES, BY REGION, 2022-2027 (USD BILLION)	140
12.8	HEALTHCARE	141
12.8.1	HOSPITALS RAPIDLY TURNING TO MICROGRIDS TO COUNTER GRID INSTABILITY	141
TABLE 61	MICROGRID MARKET FOR HEALTHCARE, BY REGION, 2018-2021 (USD BILLION)	141
TABLE 62	MICROGRID MARKET FOR HEALTHCARE, BY REGION, 2022-2027 (USD BILLION)	142
13	MICROGRID MARKET, BY REGION	143
13.1	INTRODUCTION	144
FIGURE 66	SOUTH KOREA TO EXPERIENCE HIGHEST CAGR DURING FORECAST PERIOD	144
FIGURE 67	AMERICAS ACCOUNTS FOR LARGEST SHARE OF MICROGRID MARKET IN 2022	145
TABLE 63	MICROGRID MARKET, BY REGION, 2018-2021 (USD BILLION)	145
TABLE 64	MICROGRID MARKET, BY REGION, 2022-2027 (USD BILLION)	145
TABLE 65	MICROGRID INSTALLED CAPACITY, BY REGION, 2018-2021 (MW)	146
TABLE 66	MICROGRID INSTALLED CAPACITY, BY REGION, 2022-2027 (MW)	146
13.2	AMERICAS	147
FIGURE 68	AMERICAS: MICROGRID MARKET SNAPSHOT	147
TABLE 67	AMERICAS: MICROGRID MARKET, BY REGION, 2018-2021 (USD BILLION)	148
TABLE 68	AMERICAS: MICROGRID MARKET, BY REGION, 2022-2027 (USD BILLION)	148
TABLE 69	AMERICAS: MICROGRID MARKET, BY CONNECTIVITY, 2018-2021 (USD BILLION)	148

TABLE 70	AMERICAS: MICROGRID MARKET, BY CONNECTIVITY, 2022-2027 (USD BILLION)	148
TABLE 71	AMERICAS: MICROGRID MARKET, BY OFFERING, 2018-2021 (USD BILLION)	149
TABLE 72	AMERICAS: MICROGRID MARKET, BY OFFERING, 2022-2027 (USD BILLION)	149
TABLE 73	AMERICAS: MICROGRID HARDWARE MARKET, BY TYPE, 2018-2021 (USD BILLION)	149
TABLE 74	AMERICAS: MICROGRID HARDWARE MARKET, BY TYPE, 2022-2027 (USD BILLION)	150
TABLE 75	AMERICAS: MICROGRID MARKET, BY END USER, 2018-2021 (USD BILLION)	150
TABLE 76	AMERICAS: MICROGRID MARKET, BY END USER, 2022-2027 (USD BILLION)	150
13.2.1	NORTH AMERICA	151
TABLE 77	NORTH AMERICA: MICROGRID MARKET, BY COUNTRY, 2018-2021 (USD BILLION)	151
TABLE 78	NORTH AMERICA: MICROGRID MARKET, BY COUNTRY, 2022-2027 (USD BILLION)	151
TABLE 79	NORTH AMERICA: MICROGRID MARKET, BY CONNECTIVITY, 2018-2021 (USD BILLION)	151
TABLE 80	NORTH AMERICA: MICROGRID MARKET, BY CONNECTIVITY, 2022-2027 (USD BILLION)	152
TABLE 81	NORTH AMERICA: MICROGRID MARKET, BY OFFERING, 2018-2021 (USD BILLION)	152
TABLE 82	NORTH AMERICA: MICROGRID MARKET, BY OFFERING, 2022-2027 (USD BILLION)	152
TABLE 83	NORTH AMERICA: MICROGRID HARDWARE MARKET, BY TYPE, 2018-2021 (USD BILLION)	152
TABLE 84	NORTH AMERICA: MICROGRID HARDWARE MARKET, BY TYPE, 2022-2027 (USD BILLION)	153
TABLE 85	NORTH AMERICA: MICROGRID MARKET, BY END USER, 2018-2021 (USD BILLION)	153
TABLE 86	NORTH AMERICA: MICROGRID MARKET, BY END USER, 2022-2027 (USD BILLION)	153
13.2.1.1	US	154
13.2.1.1.1	Growing use of renewable energy sources in microgrids and presence of key players to drive market in coming years	154
TABLE 87	MICROGRID PROJECTS IN US FROM 2018 TO 2020	155
13.2.1.2	Canada	156
13.2.1.2.1	Remote communities in Canada to create opportunities for microgrid developers	156
13.2.1.3	Mexico	156
13.2.1.3.1	Mexican market to record highest CAGR in North America during forecast period	156
13.2.2	SOUTH AMERICA	156
TABLE 88	SOUTH AMERICA: MICROGRID MARKET, BY COUNTRY, 2018-2021 (USD BILLION)	157
TABLE 89	SOUTH AMERICA: MICROGRID MARKET, BY COUNTRY, 2022-2027 (USD BILLION)	157
TABLE 90	SOUTH AMERICA: MICROGRID MARKET, BY CONNECTIVITY, 2018-2021 (USD BILLION)	157
TABLE 91	SOUTH AMERICA: MICROGRID MARKET, BY CONNECTIVITY, 2022-2027 (USD BILLION)	157

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

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

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

TABLE 92	SOUTH AMERICA: MICROGRID MARKET, BY OFFERING, 2018-2021 (USD BILLION)	158
TABLE 93	SOUTH AMERICA: MICROGRID MARKET, BY OFFERING, 2022-2027 (USD BILLION)	158
TABLE 94	SOUTH AMERICA: MICROGRID HARDWARE MARKET, BY TYPE, 2018-2021 (USD BILLION)	158
TABLE 95	SOUTH AMERICA: MICROGRID HARDWARE MARKET, BY TYPE, 2022-2027 (USD BILLION)	158
TABLE 96	SOUTH AMERICA: MICROGRID MARKET, BY END USER, 2018-2021 (USD BILLION)	159
TABLE 97	SOUTH AMERICA: MICROGRID MARKET, BY END USER, 2022-2027 (USD BILLION)	159
13.2.2.1	Brazil	160
13.2.2.1.1	Brazil held largest size of microgrid market in South America in 2021	160
13.2.2.2	Argentina	160
13.2.2.2.1	Focus on renewable energy sources and development of smart grids	160
13.2.2.3	Rest of South America	160
13.3	EUROPE	160
FIGURE 69	EUROPE: MICROGRID MARKET SNAPSHOT	161
TABLE 98	EUROPE: MICROGRID MARKET, BY COUNTRY, 2018-2021 (USD BILLION)	162
TABLE 99	EUROPE: MICROGRID MARKET, BY COUNTRY, 2022-2027 (USD BILLION)	162
TABLE 100	EUROPE: MICROGRID MARKET, BY CONNECTIVITY, 2018-2021 (USD BILLION)	162
TABLE 101	EUROPE: MICROGRID MARKET, BY CONNECTIVITY, 2022-2027 (USD BILLION)	163
TABLE 102	EUROPE: MICROGRID MARKET, BY OFFERING, 2018-2021 (USD BILLION)	163
TABLE 103	EUROPE: MICROGRID MARKET, BY OFFERING, 2022-2027 (USD BILLION)	163
TABLE 104	EUROPE: MICROGRID HARDWARE MARKET, BY TYPE, 2018-2021 (USD BILLION)	163
TABLE 105	EUROPE: MICROGRID HARDWARE MARKET, BY TYPE, 2022-2027 (USD BILLION)	164
TABLE 106	EUROPE: MICROGRID MARKET, BY END USER, 2018-2021 (USD BILLION)	164
TABLE 107	EUROPE: MICROGRID MARKET, BY END USER, 2022-2027 (USD BILLION)	164
TABLE 108	MICROGRID PROJECTS IN EUROPE FROM 2018 TO 2021	165
13.3.1	UK	165
13.3.1.1	Rising use of microgrids to reduce wastage of heat generated by traditional systems	165
TABLE 109	MICROGRID PROJECTS IN UK FROM 2018 TO 2021	166
13.3.2	GERMANY	166
13.3.2.1	Surging adoption of microgrids due to government initiatives	166
13.3.3	FRANCE	166
13.3.3.1	Increasing government investments to promote adoption of microgrids	166
13.3.4	ITALY	167
13.3.4.1	Growing installations of PV systems to boost demand for microgrids	167
13.3.5	REST OF EUROPE	167
13.4	ASIA PACIFIC	167
FIGURE 70	ASIA PACIFIC: MICROGRID MARKET SNAPSHOT	168
TABLE 110	ASIA PACIFIC: MICROGRID MARKET, BY COUNTRY, 2018-2021 (USD BILLION)	169

TABLE 111	ASIA PACIFIC: MICROGRID MARKET, BY COUNTRY, 2022-2027 (USD BILLION)	169
TABLE 112	ASIA PACIFIC: MICROGRID MARKET, BY CONNECTIVITY, 2018-2021 (USD BILLION)	169
TABLE 113	ASIA PACIFIC: MICROGRID MARKET, BY CONNECTIVITY, 2022-2027 (USD BILLION)	170
TABLE 114	ASIA PACIFIC: MICROGRID MARKET, BY OFFERING, 2018-2021 (USD BILLION)	170
TABLE 115	ASIA PACIFIC: MICROGRID MARKET, BY OFFERING, 2022-2027 (USD BILLION)	170
TABLE 116	ASIA PACIFIC: MICROGRID HARDWARE MARKET, BY TYPE, 2018-2021 (USD BILLION)	170
TABLE 117	ASIA PACIFIC: MICROGRID HARDWARE MARKET, BY TYPE, 2022-2027 (USD BILLION)	171
TABLE 118	ASIA PACIFIC: MICROGRID MARKET, BY END USER, 2018-2021 (USD BILLION)	171
TABLE 119	ASIA PACIFIC: MICROGRID MARKET, BY END USER, 2022-2027 (USD BILLION)	171
13.4.1	AUSTRALIA	172
13.4.1.1	Rising shift to microgrids due to surging prices of traditional grid electricity	172
TABLE 120	MICROGRID PROJECTS IN AUSTRALIA FROM 2018 TO 2020	172
13.4.2	CHINA	172
13.4.2.1	Increasing government initiatives to promote use of clean energy	172
13.4.3	JAPAN	173
13.4.3.1	Growing need for reliable power supply fueling growth of microgrid market	173
13.4.4	SOUTH KOREA	173
13.4.4.1	South Korea to record highest CAGR in microgrid market during forecast period	173
13.4.5	REST OF ASIA PACIFIC	173
TABLE 121	MICROGRID PROJECTS IN REST OF ASIA PACIFIC FROM 2018 TO 2021	174
13.5	ROW	175
TABLE 122	ROW: MICROGRID MARKET, BY REGION, 2018-2021 (USD BILLION)	175
TABLE 123	ROW: MICROGRID MARKET, BY COUNTRY, 2022-2027 (USD BILLION)	175
TABLE 124	ROW: MICROGRID MARKET, BY CONNECTIVITY, 2018-2021 (USD BILLION)	175
TABLE 125	ROW: MICROGRID MARKET, BY CONNECTIVITY, 2022-2027 (USD BILLION)	176
TABLE 126	ROW: MICROGRID MARKET, BY OFFERING, 2018-2021 (USD BILLION)	176
TABLE 127	ROW: MICROGRID MARKET, BY OFFERING, 2022-2027 (USD BILLION)	176
TABLE 128	ROW: MICROGRID HARDWARE MARKET, BY TYPE, 2018-2021 (USD BILLION)	176
TABLE 129	ROW: MICROGRID HARDWARE MARKET, BY TYPE, 2022-2027 (USD BILLION)	177
TABLE 130	ROW: MICROGRID MARKET, BY END USER, 2018-2021 (USD BILLION)	177
TABLE 131	ROW: MICROGRID MARKET, BY END USER, 2022-2027 (USD BILLION)	177
13.5.1	MIDDLE EAST	178
13.5.1.1	Growth of healthcare sector and rising demand for reliable power supply contribute to growth of microgrid market	178
13.5.2	AFRICA	178
13.5.2.1	Surging number of microgrid projects in region due to various government initiatives	178
TABLE 132	MICROGRID PROJECTS IN AFRICA FROM 2018 TO 2020	179
?		
14	COMPETITIVE LANDSCAPE	180

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

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

www.scotts-international.com

14.1	INTRODUCTION	180
14.2	KEY PLAYER STRATEGIES/RIGHT TO WIN	180
TABLE 133	OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN MICROGRID MARKET	180
14.3	MARKET SHARE ANALYSIS	183
FIGURE 71	MICROGRID MARKET: MARKET SHARE ANALYSIS	183
TABLE 134	MICROGRID MARKET: DEGREE OF COMPETITION	184
14.4	HISTORICAL REVENUE ANALYSIS (2017-2021)	185
FIGURE 72	REVENUE ANALYSIS OF KEY COMPANIES IN PAST FIVE YEARS	185
14.5	COMPANY EVALUATION QUADRANT, 2021	187
FIGURE 73	MICROGRID MARKET (GLOBAL) COMPANY EVALUATION MATRIX, 2021	187
14.5.1	STARS	188
14.5.2	EMERGING LEADERS	188
14.5.3	PERVASIVE COMPANIES	188
14.5.4	PARTICIPANTS	188
14.6	COMPANY FOOTPRINT	189
TABLE 135	COMPANY FOOTPRINT	189
TABLE 136	COMPANY FOOTPRINT, BY OFFERING	190
TABLE 137	COMPANY FOOTPRINT, BY END USER	191
TABLE 138	COMPANY FOOTPRINT, BY REGION	192
14.7	SMALL AND MEDIUM-SIZED ENTERPRISES (SME) EVALUATION MATRIX	193
FIGURE 74	SME EVALUATION MATRIX, 2021	193
14.7.1	PROGRESSIVE COMPANIES	193
14.7.2	RESPONSIVE COMPANIES	194
14.7.3	DYNAMIC COMPANIES	194
14.7.4	STARTING BLOCKS	194
14.8	COMPETITIVE BENCHMARKING	194
TABLE 139	MICROGRID MARKET: DETAILED LIST OF KEY SMES	194
TABLE 140	MICROGRID MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS (SMES)	195
14.9	COMPETITIVE SCENARIO AND TRENDS	196
14.9.1	PRODUCT LAUNCHES AND DEVELOPMENTS	196
TABLE 141	MICROGRID MARKET: PRODUCT LAUNCHES AND DEVELOPMENTS, JUNE 2018- FEBRUARY 2022	196
14.9.2	DEALS	202
TABLE 142	MICROGRID MARKET: DEALS, JANUARY 2018-JANUARY 2022	202
14.9.3	OTHERS	216
TABLE 143	MICROGRID MARKET: OTHERS	216
?		
15	COMPANY PROFILES	217
	(Business overview, Products/solutions/services offered, Recent developments & MnM View)*	
15.1	KEY PLAYERS	217
15.1.1	SCHNEIDER ELECTRIC	217
TABLE 144	SCHNEIDER ELECTRIC: BUSINESS OVERVIEW	217
FIGURE 75	SCHNEIDER ELECTRIC: COMPANY SNAPSHOT	218
TABLE 145	SCHNEIDER ELECTRIC: PRODUCTS OFFERED	219
TABLE 146	SCHNEIDER ELECTRIC: PRODUCT LAUNCHES	220
TABLE 147	SCHNEIDER ELECTRIC: DEALS	221
TABLE 148	SCHNEIDER ELECTRIC: OTHERS	222

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

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

www.scotts-international.com

15.1.2	SIEMENS	223
TABLE 149	SIEMENS: BUSINESS OVERVIEW	223
FIGURE 76	SIEMENS: COMPANY SNAPSHOT	224
TABLE 150	SIEMENS: PRODUCTS OFFERED	225
TABLE 151	SIEMENS: PRODUCT LAUNCHES	225
TABLE 152	SIEMENS: DEALS	227
15.1.3	GENERAL ELECTRIC	231
TABLE 153	GENERAL ELECTRIC: BUSINESS OVERVIEW	231
FIGURE 77	GENERAL ELECTRIC: COMPANY SNAPSHOT	232
TABLE 154	GENERAL ELECTRIC: PRODUCTS OFFERED	233
TABLE 155	GENERAL ELECTRIC: PRODUCT LAUNCHES	234
TABLE 156	GENERAL ELECTRIC: DEALS	235
15.1.4	EATON CORPORATION	240
TABLE 157	EATON CORPORATION: BUSINESS OVERVIEW	240
FIGURE 78	EATON CORPORATION: COMPANY SNAPSHOT	241
TABLE 158	EATON CORPORATION: PRODUCTS OFFERED	242
TABLE 159	EATON CORPORATION: PRODUCT LAUNCHES	243
TABLE 160	EATON CORPORATION: DEALS	244
TABLE 161	EATON CORPORATION: OTHERS	247
15.1.5	ABB	248
TABLE 162	ABB: BUSINESS OVERVIEW	248
FIGURE 79	ABB: COMPANY SNAPSHOT	249
TABLE 163	ABB: PRODUCTS OFFERED	249
TABLE 164	ABB: PRODUCT LAUNCHES	251
TABLE 165	ABB: DEALS	251
15.1.6	HITACHI ENERGY	254
TABLE 166	HITACHI ENERGY: BUSINESS OVERVIEW	254
TABLE 167	HITACHI ENERGY: PRODUCTS OFFERED	254
TABLE 168	HITACHI ENERGY: PRODUCT LAUNCHES	256
TABLE 169	HITACHI ENERGY: DEALS	256
?		
15.1.7	HONEYWELL INTERNATIONAL INC.	259
TABLE 170	HONEYWELL INTERNATIONAL INC.: BUSINESS OVERVIEW	259
FIGURE 80	HONEYWELL INTERNATIONAL INC.: COMPANY SNAPSHOT	260
TABLE 171	HONEYWELL INTERNATIONAL INC.: PRODUCTS OFFERED	261
TABLE 172	HONEYWELL INTERNATIONAL INC.: PRODUCT LAUNCHES	261
TABLE 173	HONEYWELL INTERNATIONAL INC.: DEALS	262
15.1.8	HOMER ENERGY (PART OF UL)	263
TABLE 174	HOMER ENERGY: BUSINESS OVERVIEW	263
TABLE 175	HOMER ENERGY: PRODUCTS OFFERED	264
TABLE 176	HOMER ENERGY: PRODUCT LAUNCHES	265
TABLE 177	HOMER ENERGY: DEALS	267
15.1.9	S&C ELECTRIC COMPANY	268
TABLE 178	S&C ELECTRIC COMPANY: BUSINESS OVERVIEW	268
TABLE 179	S&C ELECTRIC COMPANY: PRODUCTS OFFERED	268
TABLE 180	S&C ELECTRIC COMPANY: PRODUCT LAUNCHES	270
TABLE 181	S&C ELECTRIC COMPANY: DEALS	271

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

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

www.scotts-international.com

TABLE 182 S&C ELECTRIC COMPANY: OTHERS 271

15.1.10 POWER ANALYTICS CORPORATION 272

TABLE 183 POWER ANALYTICS CORPORATION: BUSINESS OVERVIEW 272

TABLE 184 POWER ANALYTICS CORPORATION: PRODUCTS OFFERED 273

TABLE 185 POWER ANALYTICS CORPORATION: PRODUCT LAUNCHES 274

TABLE 186 POWER ANALYTICS CORPORATION: DEALS 275

\*Details on Business overview, Products/solutions/services offered, Recent developments & MnM View might not be captured in case of unlisted companies.

15.2 OTHER PLAYERS 276

15.2.1 CATERPILLAR INC. 276

15.2.2 TESLA ENERGY (SUBSIDIARY OF TESLA) 277

15.2.3 EMERSON ELECTRIC 278

15.2.4 PARETO ENERGY 279

15.2.5 ANBARIC TRANSMISSION 279

15.2.6 EXELON CORPORATION 280

15.2.7 SPIRAE LLC 280

15.2.8 GENERAL MICROGRIDS 281

15.2.9 GRAM POWER INC. 282

15.2.10 POWERHIVE 283

15.2.11 ADVANCED MICROGRID SOLUTIONS 283

15.2.12 GO ELECTRIC 284

15.2.13 FERROAMP 284

15.2.14 CANOPY POWER 285

15.2.15 GREEN ENERGY CORP 285

?

16 APPENDIX 286

16.1 INSIGHTS FROM INDUSTRY EXPERTS 286

16.2 DISCUSSION GUIDE 286

16.3 KNOWLEDGE STORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL 290

16.4 AVAILABLE CUSTOMIZATIONS 292

16.5 RELATED REPORTS 292

16.6 AUTHOR DETAILS 293

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

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

www.scotts-international.com



## Microgrid Market by Connectivity (Grid-connected, Off-grid), Offering (Power Generators, Controllers, Energy Storage, Software, Services), End User (Commercial & Industrial, Military, Utilities), Type, Power Rating & Geography - Global Forecast to 2027

Market Report | 2022-07-05 | 294 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

Signature