

# Global Microgrid Energy Management System (EMS) for Data Center Market Research Report 2026(Status and Outlook)

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## Abstracts

The Energy Management System (EMS) for data centers is an integrated hardware and software solution for monitoring, coordinating, and optimizing various energy resources within a data center, including grid connection, gas generator sets, gas engines, battery storage systems, renewable energy, and cooling loads. It enables power dispatching, peak shaving and valley filling, fault islanding operation and black start support, and provides remote operation and maintenance and energy consumption analysis. Global shipments in 2024 were approximately 2,300 units, with an average unit price of approximately US\$150,000. The upstream industry focuses on power electronics and inverter manufacturing, energy storage battery and generator set supply, sensor and communication modules, industrial controllers and SCADA platforms, and energy software and algorithm development. Downstream users primarily include data center operators, hosting providers, energy service companies, and system integrators. System integrators typically have an average gross profit margin of approximately 38%. Their product cost structure is as follows: hardware controllers and power electronics account for about 35%; software development and algorithm optimization for about 20%; system integration and on-site debugging for about 20%; testing, certification, and quality verification for about 5%; sales and project management for 10%; and operation and maintenance and spare parts support for 10%. Products can be categorized by parameters into single-room edge EMS and campus-level centralized EMS; by function into energy-saving types focused on energy efficiency optimization, backup types focused on power supply reliability, and aggregated types supporting virtual power plant capabilities; by integration targets into traditional integration types primarily based on power grids and generators, clean energy types primarily based on batteries and renewable energy, and hybrid fuel compatible types; and by deployment methods into local deployment, cloud-assisted, and hybrid deployment.

The global Microgrid Energy Management System (EMS) for Data Center market size was estimated at USD 345.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.90% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Microgrid Energy Management System (EMS) for Data Center market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Microgrid Energy Management System (EMS) for Data Center market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Microgrid Energy Management System (EMS) for Data Center market.

### **Global Microgrid Energy Management System (EMS) for Data Center Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate

product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Schneider Electric  
Siemens Energy  
Delta  
Guodiannanjing Automation  
Shanghai Acrel  
Eastups  
Amber Optimal  
Shenzhen Kstar Science & Technology  
SINOSOAR

### **Market Segmentation (by Type)**

EMS Controller  
EMS Cabinet  
EMS Software  
Other

### **Market Segmentation (by Application)**

Grid-Connected Microgrid System  
Islanded Microgrid System

### **Geographic Segmentation**

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa,

Rest of MEA)

### **Key Benefits of This Market Research:**

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Microgrid Energy Management System (EMS) for Data Center Market

Overview of the regional outlook of the Microgrid Energy Management System (EMS) for Data Center Market:

### **Customization of the Report**

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

### **Chapter Outline**

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Microgrid Energy Management System (EMS) for Data Center Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Microgrid Energy Management System (EMS) for Data Center, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

### **Key Reasons to Buy this Report:**

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your

competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

## **Customization of the Report**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

1.1 Market Definition and Statistical Scope of Microgrid Energy Management System (EMS) for Data Center

1.2 Key Market Segments

1.2.1 Microgrid Energy Management System (EMS) for Data Center Segment by Type

1.2.2 Microgrid Energy Management System (EMS) for Data Center Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

### **2 MICROGRID ENERGY MANAGEMENT SYSTEM (EMS) FOR DATA CENTER MARKET OVERVIEW**

2.1 Global Market Overview

2.1.1 Global Microgrid Energy Management System (EMS) for Data Center Market Size (M USD) Estimates and Forecasts (2020-2035)

2.1.2 Global Microgrid Energy Management System (EMS) for Data Center Sales Estimates and Forecasts (2020-2035)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

### **3 MICROGRID ENERGY MANAGEMENT SYSTEM (EMS) FOR DATA CENTER MARKET COMPETITIVE LANDSCAPE**

3.1 Company Assessment Quadrant

3.2 Global Microgrid Energy Management System (EMS) for Data Center Product Life Cycle

3.3 Global Microgrid Energy Management System (EMS) for Data Center Sales by Manufacturers (2020-2025)

3.4 Global Microgrid Energy Management System (EMS) for Data Center Revenue Market Share by Manufacturers (2020-2025)

3.5 Microgrid Energy Management System (EMS) for Data Center Market Share by

Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Microgrid Energy Management System (EMS) for Data Center Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Microgrid Energy Management System (EMS) for Data Center Market Competitive Situation and Trends

3.8.1 Microgrid Energy Management System (EMS) for Data Center Market Concentration Rate

3.8.2 Global 5 and 10 Largest Microgrid Energy Management System (EMS) for Data Center Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

## **4 MICROGRID ENERGY MANAGEMENT SYSTEM (EMS) FOR DATA CENTER INDUSTRY CHAIN ANALYSIS**

4.1 Microgrid Energy Management System (EMS) for Data Center Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

## **5 THE DEVELOPMENT AND DYNAMICS OF MICROGRID ENERGY MANAGEMENT SYSTEM (EMS) FOR DATA CENTER MARKET**

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Microgrid Energy Management System (EMS) for Data Center Market Porter's Five Forces Analysis

- 5.6.1 Global Trade Frictions
- 5.6.2 U.S. Tariff Policy ? April 2025
- 5.6.3 Global Trade Frictions and Their Impacts to Microgrid Energy Management System (EMS) for Data Center Market
- 5.7 ESG Ratings of Leading Companies

## **6 MICROGRID ENERGY MANAGEMENT SYSTEM (EMS) FOR DATA CENTER MARKET SEGMENTATION BY TYPE**

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Type (2020-2025)
- 6.3 Global Microgrid Energy Management System (EMS) for Data Center Market Size by Type (2020-2025)
- 6.4 Global Microgrid Energy Management System (EMS) for Data Center Price by Type (2020-2025)

## **7 MICROGRID ENERGY MANAGEMENT SYSTEM (EMS) FOR DATA CENTER MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Microgrid Energy Management System (EMS) for Data Center Market Sales by Application (2020-2025)
- 7.3 Global Microgrid Energy Management System (EMS) for Data Center Market Size (M USD) by Application (2020-2025)
- 7.4 Global Microgrid Energy Management System (EMS) for Data Center Sales Growth Rate by Application (2020-2025)

## **8 MICROGRID ENERGY MANAGEMENT SYSTEM (EMS) FOR DATA CENTER MARKET SALES BY REGION**

- 8.1 Global Microgrid Energy Management System (EMS) for Data Center Sales by Region
  - 8.1.1 Global Microgrid Energy Management System (EMS) for Data Center Sales by Region
  - 8.1.2 Global Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Region
- 8.2 Global Microgrid Energy Management System (EMS) for Data Center Market Size by Region

8.2.1 Global Microgrid Energy Management System (EMS) for Data Center Market Size by Region

8.2.2 Global Microgrid Energy Management System (EMS) for Data Center Market Size by Region

8.3 North America

8.3.1 North America Microgrid Energy Management System (EMS) for Data Center Sales by Country

8.3.2 North America Microgrid Energy Management System (EMS) for Data Center Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Microgrid Energy Management System (EMS) for Data Center Sales by Country

8.4.2 Europe Microgrid Energy Management System (EMS) for Data Center Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Microgrid Energy Management System (EMS) for Data Center Sales by Region

8.5.2 Asia Pacific Microgrid Energy Management System (EMS) for Data Center Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

8.5.5 South Korea Market Overview

8.5.6 India Market Overview

8.5.7 Southeast Asia Market Overview

8.6 South America

8.6.1 South America Microgrid Energy Management System (EMS) for Data Center Sales by Country

8.6.2 South America Microgrid Energy Management System (EMS) for Data Center Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Microgrid Energy Management System (EMS) for Data Center Sales by Region

8.7.2 Middle East and Africa Microgrid Energy Management System (EMS) for Data Center Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

## **9 MICROGRID ENERGY MANAGEMENT SYSTEM (EMS) FOR DATA CENTER MARKET PRODUCTION BY REGION**

9.1 Global Production of Microgrid Energy Management System (EMS) for Data Center by Region(2020-2025)

9.2 Global Microgrid Energy Management System (EMS) for Data Center Revenue Market Share by Region (2020-2025)

9.3 Global Microgrid Energy Management System (EMS) for Data Center Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Microgrid Energy Management System (EMS) for Data Center Production

9.4.1 North America Microgrid Energy Management System (EMS) for Data Center Production Growth Rate (2020-2025)

9.4.2 North America Microgrid Energy Management System (EMS) for Data Center Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Microgrid Energy Management System (EMS) for Data Center Production

9.5.1 Europe Microgrid Energy Management System (EMS) for Data Center Production Growth Rate (2020-2025)

9.5.2 Europe Microgrid Energy Management System (EMS) for Data Center Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Microgrid Energy Management System (EMS) for Data Center Production (2020-2025)

9.6.1 Japan Microgrid Energy Management System (EMS) for Data Center Production Growth Rate (2020-2025)

9.6.2 Japan Microgrid Energy Management System (EMS) for Data Center Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Microgrid Energy Management System (EMS) for Data Center Production

(2020-2025)

9.7.1 China Microgrid Energy Management System (EMS) for Data Center Production Growth Rate (2020-2025)

9.7.2 China Microgrid Energy Management System (EMS) for Data Center Production, Revenue, Price and Gross Margin (2020-2025)

## **10 KEY COMPANIES PROFILE**

### 10.1 Schneider Electric

10.1.1 Schneider Electric Basic Information

10.1.2 Schneider Electric Microgrid Energy Management System (EMS) for Data Center Product Overview

10.1.3 Schneider Electric Microgrid Energy Management System (EMS) for Data Center Product Market Performance

10.1.4 Schneider Electric Business Overview

10.1.5 Schneider Electric SWOT Analysis

10.1.6 Schneider Electric Recent Developments

### 10.2 Siemens Energy

10.2.1 Siemens Energy Basic Information

10.2.2 Siemens Energy Microgrid Energy Management System (EMS) for Data Center Product Overview

10.2.3 Siemens Energy Microgrid Energy Management System (EMS) for Data Center Product Market Performance

10.2.4 Siemens Energy Business Overview

10.2.5 Siemens Energy SWOT Analysis

10.2.6 Siemens Energy Recent Developments

### 10.3 Delta

10.3.1 Delta Basic Information

10.3.2 Delta Microgrid Energy Management System (EMS) for Data Center Product Overview

10.3.3 Delta Microgrid Energy Management System (EMS) for Data Center Product Market Performance

10.3.4 Delta Business Overview

10.3.5 Delta SWOT Analysis

10.3.6 Delta Recent Developments

### 10.4 Guodiannanjing Automation

10.4.1 Guodiannanjing Automation Basic Information

10.4.2 Guodiannanjing Automation Microgrid Energy Management System (EMS) for Data Center Product Overview

- 10.4.3 Guodiannanjing Automation Microgrid Energy Management System (EMS) for Data Center Product Market Performance
- 10.4.4 Guodiannanjing Automation Business Overview
- 10.4.5 Guodiannanjing Automation Recent Developments
- 10.5 Shanghai Acrel
  - 10.5.1 Shanghai Acrel Basic Information
  - 10.5.2 Shanghai Acrel Microgrid Energy Management System (EMS) for Data Center Product Overview
  - 10.5.3 Shanghai Acrel Microgrid Energy Management System (EMS) for Data Center Product Market Performance
  - 10.5.4 Shanghai Acrel Business Overview
  - 10.5.5 Shanghai Acrel Recent Developments
- 10.6 Eastups
  - 10.6.1 Eastups Basic Information
  - 10.6.2 Eastups Microgrid Energy Management System (EMS) for Data Center Product Overview
  - 10.6.3 Eastups Microgrid Energy Management System (EMS) for Data Center Product Market Performance
  - 10.6.4 Eastups Business Overview
  - 10.6.5 Eastups Recent Developments
- 10.7 Amber Optimal
  - 10.7.1 Amber Optimal Basic Information
  - 10.7.2 Amber Optimal Microgrid Energy Management System (EMS) for Data Center Product Overview
  - 10.7.3 Amber Optimal Microgrid Energy Management System (EMS) for Data Center Product Market Performance
  - 10.7.4 Amber Optimal Business Overview
  - 10.7.5 Amber Optimal Recent Developments
- 10.8 Shenzhen Kstar Science and Technology
  - 10.8.1 Shenzhen Kstar Science and Technology Basic Information
  - 10.8.2 Shenzhen Kstar Science and Technology Microgrid Energy Management System (EMS) for Data Center Product Overview
  - 10.8.3 Shenzhen Kstar Science and Technology Microgrid Energy Management System (EMS) for Data Center Product Market Performance
  - 10.8.4 Shenzhen Kstar Science and Technology Business Overview
  - 10.8.5 Shenzhen Kstar Science and Technology Recent Developments
- 10.9 SINOSOAR
  - 10.9.1 SINOSOAR Basic Information
  - 10.9.2 SINOSOAR Microgrid Energy Management System (EMS) for Data Center

## Product Overview

10.9.3 SINOSOAR Microgrid Energy Management System (EMS) for Data Center

## Product Market Performance

10.9.4 SINOSOAR Business Overview

10.9.5 SINOSOAR Recent Developments

## **11 MICROGRID ENERGY MANAGEMENT SYSTEM (EMS) FOR DATA CENTER MARKET FORECAST BY REGION**

11.1 Global Microgrid Energy Management System (EMS) for Data Center Market Size Forecast

11.2 Global Microgrid Energy Management System (EMS) for Data Center Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Country

11.2.3 Asia Pacific Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Region

11.2.4 South America Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Microgrid Energy Management System (EMS) for Data Center by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

12.1 Global Microgrid Energy Management System (EMS) for Data Center Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Microgrid Energy Management System (EMS) for Data Center by Type (2026-2035)

12.1.2 Global Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Microgrid Energy Management System (EMS) for Data Center by Type (2026-2035)

12.2 Global Microgrid Energy Management System (EMS) for Data Center Market Forecast by Application (2026-2035)

12.2.1 Global Microgrid Energy Management System (EMS) for Data Center Sales (K Units) Forecast by Application

12.2.2 Global Microgrid Energy Management System (EMS) for Data Center Market Size (M USD) Forecast by Application (2026-2035)

## 13 CONCLUSION AND KEY FINDINGS

## List Of Tables

### LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Microgrid Energy Management System (EMS) for Data Center Market Size by Type (M USD)

Table 4. Global Microgrid Energy Management System (EMS) for Data Center Market Size by Application

Table 5. Microgrid Energy Management System (EMS) for Data Center Market Size Comparison by Region (M USD)

Table 6. Global Microgrid Energy Management System (EMS) for Data Center Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Microgrid Energy Management System (EMS) for Data Center Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Microgrid Energy Management System (EMS) for Data Center Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Microgrid Energy Management System (EMS) for Data Center as of 2025)

Table 11. Global Market Microgrid Energy Management System (EMS) for Data Center Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Microgrid Energy Management System (EMS) for Data Center Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Microgrid Energy Management System (EMS) for Data Center Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Microgrid Energy Management System (EMS) for Data Center Sales by Type (K Units)

Table 27. Global Microgrid Energy Management System (EMS) for Data Center Market Size by Type (M USD)

Table 28. Global Microgrid Energy Management System (EMS) for Data Center Sales (K Units) by Type (2020-2025)

Table 29. Global Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Type (2020-2025)

Table 30. Global Microgrid Energy Management System (EMS) for Data Center Market Size (M USD) by Type (2020-2025)

Table 31. Global Microgrid Energy Management System (EMS) for Data Center Market Share by Type (2020-2025)

Table 32. Global Microgrid Energy Management System (EMS) for Data Center Price (USD/Unit) by Type (2020-2025)

Table 33. Global Microgrid Energy Management System (EMS) for Data Center Sales (K Units) by Application

Table 34. Global Microgrid Energy Management System (EMS) for Data Center Market Size by Application

Table 35. Global Microgrid Energy Management System (EMS) for Data Center Sales by Application (2020-2025) & (K Units)

Table 36. Global Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Application (2020-2025)

Table 37. Global Microgrid Energy Management System (EMS) for Data Center Market Size by Application (2020-2025) & (M USD)

Table 38. Global Microgrid Energy Management System (EMS) for Data Center Market Share by Application (2020-2025)

Table 39. Global Microgrid Energy Management System (EMS) for Data Center Sales Growth Rate by Application (2020-2025)

Table 40. Global Microgrid Energy Management System (EMS) for Data Center Sales by Region (2020-2025) & (K Units)

Table 41. Global Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Region (2020-2025)

Table 42. Global Microgrid Energy Management System (EMS) for Data Center Market Size by Region (2020-2025) & (M USD)

Table 43. Global Microgrid Energy Management System (EMS) for Data Center Market Size by Region (2020-2025)

Table 44. North America Microgrid Energy Management System (EMS) for Data Center

Sales by Country (2020-2025) & (K Units)

Table 45. North America Microgrid Energy Management System (EMS) for Data Center Market Size by Country (2020-2025) & (M USD)

Table 46. Europe Microgrid Energy Management System (EMS) for Data Center Sales by Country (2020-2025) & (K Units)

Table 47. Europe Microgrid Energy Management System (EMS) for Data Center Market Size by Country (2020-2025) & (M USD)

Table 48. Asia Pacific Microgrid Energy Management System (EMS) for Data Center Sales by Region (2020-2025) & (K Units)

Table 49. Asia Pacific Microgrid Energy Management System (EMS) for Data Center Market Size by Region (2020-2025) & (M USD)

Table 50. South America Microgrid Energy Management System (EMS) for Data Center Sales by Country (2020-2025) & (K Units)

Table 51. South America Microgrid Energy Management System (EMS) for Data Center Market Size by Country (2020-2025) & (M USD)

Table 52. Middle East and Africa Microgrid Energy Management System (EMS) for Data Center Sales by Region (2020-2025) & (K Units)

Table 53. Middle East and Africa Microgrid Energy Management System (EMS) for Data Center Market Size by Region (2020-2025) & (M USD)

Table 54. Global Microgrid Energy Management System (EMS) for Data Center Production (K Units) by Region(2020-2025)

Table 55. Global Microgrid Energy Management System (EMS) for Data Center Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Microgrid Energy Management System (EMS) for Data Center Revenue Market Share by Region (2020-2025)

Table 57. Global Microgrid Energy Management System (EMS) for Data Center Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. North America Microgrid Energy Management System (EMS) for Data Center Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Europe Microgrid Energy Management System (EMS) for Data Center Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. Japan Microgrid Energy Management System (EMS) for Data Center Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. China Microgrid Energy Management System (EMS) for Data Center Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin

(2020-2025)

Table 62. Schneider Electric Basic Information

Table 63. Schneider Electric Microgrid Energy Management System (EMS) for Data Center Product Overview

Table 64. Schneider Electric Microgrid Energy Management System (EMS) for Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 65. Schneider Electric Business Overview

Table 66. Schneider Electric SWOT Analysis

Table 67. Schneider Electric Recent Developments

Table 68. Siemens Energy Basic Information

Table 69. Siemens Energy Microgrid Energy Management System (EMS) for Data Center Product Overview

Table 70. Siemens Energy Microgrid Energy Management System (EMS) for Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 71. Siemens Energy Business Overview

Table 72. Siemens Energy SWOT Analysis

Table 73. Siemens Energy Recent Developments

Table 74. Delta Basic Information

Table 75. Delta Microgrid Energy Management System (EMS) for Data Center Product Overview

Table 76. Delta Microgrid Energy Management System (EMS) for Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 77. Delta Business Overview

Table 78. Delta SWOT Analysis

Table 79. Delta Recent Developments

Table 80. Guodiannanjing Automation Basic Information

Table 81. Guodiannanjing Automation Microgrid Energy Management System (EMS) for Data Center Product Overview

Table 82. Guodiannanjing Automation Microgrid Energy Management System (EMS) for Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 83. Guodiannanjing Automation Business Overview

Table 84. Guodiannanjing Automation Recent Developments

Table 85. Shanghai Acrel Basic Information

Table 86. Shanghai Acrel Microgrid Energy Management System (EMS) for Data Center Product Overview

Table 87. Shanghai Acrel Microgrid Energy Management System (EMS) for Data

Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 88. Shanghai Acrel Business Overview

Table 89. Shanghai Acrel Recent Developments

Table 90. Eastups Basic Information

Table 91. Eastups Microgrid Energy Management System (EMS) for Data Center Product Overview

Table 92. Eastups Microgrid Energy Management System (EMS) for Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 93. Eastups Business Overview

Table 94. Eastups Recent Developments

Table 95. Amber Optimal Basic Information

Table 96. Amber Optimal Microgrid Energy Management System (EMS) for Data Center Product Overview

Table 97. Amber Optimal Microgrid Energy Management System (EMS) for Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 98. Amber Optimal Business Overview

Table 99. Amber Optimal Recent Developments

Table 100. Shenzhen Kstar Science and Technology Basic Information

Table 101. Shenzhen Kstar Science and Technology Microgrid Energy Management System (EMS) for Data Center Product Overview

Table 102. Shenzhen Kstar Science and Technology Microgrid Energy Management System (EMS) for Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 103. Shenzhen Kstar Science and Technology Business Overview

Table 104. Shenzhen Kstar Science and Technology Recent Developments

Table 105. SINOSOAR Basic Information

Table 106. SINOSOAR Microgrid Energy Management System (EMS) for Data Center Product Overview

Table 107. SINOSOAR Microgrid Energy Management System (EMS) for Data Center Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 108. SINOSOAR Business Overview

Table 109. SINOSOAR Recent Developments

Table 110. Global Microgrid Energy Management System (EMS) for Data Center Sales Forecast by Region (2026-2035) & (K Units)

Table 111. Global Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Region (2026-2035) & (M USD)

Table 112. North America Microgrid Energy Management System (EMS) for Data Center Sales Forecast by Country (2026-2035) & (K Units)

Table 113. North America Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Country (2026-2035) & (M USD)

Table 114. Europe Microgrid Energy Management System (EMS) for Data Center Sales Forecast by Country (2026-2035) & (K Units)

Table 115. Europe Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Country (2026-2035) & (M USD)

Table 116. Asia Pacific Microgrid Energy Management System (EMS) for Data Center Sales Forecast by Region (2026-2035) & (K Units)

Table 117. Asia Pacific Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Region (2026-2035) & (M USD)

Table 118. South America Microgrid Energy Management System (EMS) for Data Center Sales Forecast by Country (2026-2035) & (K Units)

Table 119. South America Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Country (2026-2035) & (M USD)

Table 120. Middle East and Africa Microgrid Energy Management System (EMS) for Data Center Sales Forecast by Country (2026-2035) & (Units)

Table 121. Middle East and Africa Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Country (2026-2035) & (M USD)

Table 122. Global Microgrid Energy Management System (EMS) for Data Center Sales Forecast by Type (2026-2035) & (K Units)

Table 123. Global Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Type (2026-2035) & (M USD)

Table 124. Global Microgrid Energy Management System (EMS) for Data Center Price Forecast by Type (2026-2035) & (USD/Unit)

Table 125. Global Microgrid Energy Management System (EMS) for Data Center Sales (K Units) Forecast by Application (2026-2035)

Table 126. Global Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

Figure 1. Product Picture of Microgrid Energy Management System (EMS) for Data Center

Figure 2. Data Triangulation

Figure 3. Key Caveats

Figure 4. Global Microgrid Energy Management System (EMS) for Data Center Market Size (M USD), 2025-2035

Figure 5. Global Microgrid Energy Management System (EMS) for Data Center Market Size (M USD) (2020-2035)

Figure 6. Global Microgrid Energy Management System (EMS) for Data Center Sales (K Units) & (2020-2035)

Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 9. Evaluation Matrix of Regional Market Development Potential

Figure 10. Microgrid Energy Management System (EMS) for Data Center Market Size by Country (M USD)

Figure 11. Company Assessment Quadrant

Figure 12. Global Microgrid Energy Management System (EMS) for Data Center Product Life Cycle

Figure 13. Microgrid Energy Management System (EMS) for Data Center Sales Share by Manufacturers in 2025

Figure 14. Global Microgrid Energy Management System (EMS) for Data Center Revenue Share by Manufacturers in 2025

Figure 15. Microgrid Energy Management System (EMS) for Data Center Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025

Figure 16. Global Market Microgrid Energy Management System (EMS) for Data Center Average Price (USD/Unit) of Key Manufacturers in 2025

Figure 17. The Global 5 and 10 Largest Players: Market Share by Microgrid Energy Management System (EMS) for Data Center Revenue in 2025

Figure 18. Industry Chain Map of Microgrid Energy Management System (EMS) for Data Center

Figure 19. Global Microgrid Energy Management System (EMS) for Data Center Market PEST Analysis

Figure 20. Global Microgrid Energy Management System (EMS) for Data Center Market Porter's Five Forces Analysis

Figure 21. Global Merchandise Trade as a Percentage Of GDP

Figure 22. US - Imports of Goods by Country

Figure 23. China Exports by Country

Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers

Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)

Figure 26. Global Microgrid Energy Management System (EMS) for Data Center Market Share by Type

Figure 27. Sales Market Share of Microgrid Energy Management System (EMS) for Data Center by Type (2020-2025)

Figure 28. Sales Market Share of Microgrid Energy Management System (EMS) for Data Center by Type in 2025

Figure 29. Market Share of Microgrid Energy Management System (EMS) for Data Center by Type (2020-2025)

Figure 30. Market Share of Microgrid Energy Management System (EMS) for Data Center by Type in 2025

Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Microgrid Energy Management System (EMS) for Data Center Market Share by Application

Figure 33. Global Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Application (2020-2025)

Figure 34. Global Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Application in 2025

Figure 35. Global Microgrid Energy Management System (EMS) for Data Center Market Share by Application (2020-2025)

Figure 36. Global Microgrid Energy Management System (EMS) for Data Center Market Share by Application in 2025

Figure 37. Global Microgrid Energy Management System (EMS) for Data Center Sales Growth Rate by Application (2020-2025)

Figure 38. Global Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Region (2020-2025)

Figure 39. Global Microgrid Energy Management System (EMS) for Data Center Market Size by Region (2020-2025)

Figure 40. North America Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Country in 2024

Figure 43. North America Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Microgrid Energy Management System (EMS) for Data Center Market Size by Country in 2024

Figure 45. U.S. Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Microgrid Energy Management System (EMS) for Data Center Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Microgrid Energy Management System (EMS) for Data Center Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Microgrid Energy Management System (EMS) for Data Center Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Microgrid Energy Management System (EMS) for Data Center Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Country in 2024

Figure 53. Europe Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Microgrid Energy Management System (EMS) for Data Center Market Size by Country in 2024

Figure 55. Germany Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Microgrid Energy Management System (EMS) for Data Center Sales

and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Region in 2024

Figure 67. Asia Pacific Microgrid Energy Management System (EMS) for Data Center Market Size by Region in 2024

Figure 68. China Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (K Units)

Figure 79. South America Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Country in 2024

Figure 80. South America Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (M USD)

Figure 81. South America Microgrid Energy Management System (EMS) for Data Center Market Size by Country in 2024

Figure 82. Brazil Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Microgrid Energy Management System (EMS) for Data Center Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Microgrid Energy Management System (EMS) for Data Center Market Size by Region in 2024

Figure 92. Saudi Arabia Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Microgrid Energy Management System (EMS) for Data Center Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Microgrid Energy Management System (EMS) for Data Center Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Microgrid Energy Management System (EMS) for Data Center

Production Market Share by Region (2020-2025)

Figure 103. North America Microgrid Energy Management System (EMS) for Data Center Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Microgrid Energy Management System (EMS) for Data Center Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Microgrid Energy Management System (EMS) for Data Center Production (K Units) Growth Rate (2020-2025)

Figure 106. China Microgrid Energy Management System (EMS) for Data Center Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Microgrid Energy Management System (EMS) for Data Center Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Microgrid Energy Management System (EMS) for Data Center Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Microgrid Energy Management System (EMS) for Data Center Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Microgrid Energy Management System (EMS) for Data Center Market Share Forecast by Type (2026-2035)

Figure 111. Global Microgrid Energy Management System (EMS) for Data Center Sales Forecast by Application (2026-2035)

Figure 112. Global Microgrid Energy Management System (EMS) for Data Center Market Share Forecast by Application (2026-2035)

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