

Global Data Center Microgrids Market Growth 2026-2032

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Abstracts

The global Data Center Microgrids market size is predicted to grow from US\$ 7043 million in 2025 to US\$ 15643 million in 2032; it is expected to grow at a CAGR of 12.1% from 2026 to 2032.

In 2025, global Data Center Microgrid output reached about 12 GW and global capacity of around 15 GW. The average price is about USD 600 per kW, with gross margins near 29%. Data Center Microgrids are localized power generation and energy management systems designed to supply reliable, resilient, and efficient electricity to data centers independently or semi-independently from the main utility grid. These systems typically integrate multiple distributed energy resources such as natural gas generators, diesel backup generators, gas turbines, fuel cells, battery energy storage systems (BESS), solar photovoltaic systems, uninterruptible power supplies (UPS), switchgear, power distribution units (PDUs), energy management software, and advanced microgrid controllers that optimize load balancing and energy usage in real time. The supply chain begins with upstream raw materials and component suppliers providing batteries, semiconductors, transformers, power electronics, generators, cooling systems, and control hardware. Midstream participants include manufacturers and integrators such as Schneider Electric, ABB, Siemens, Eaton, Vertiv, and Cummins that develop integrated microgrid platforms, control systems, modular power infrastructure, and energy storage solutions. Downstream, hyperscale cloud providers, colocation operators, telecom facilities, financial institutions, healthcare organizations, AI computing centers, and government data centers deploy these systems to improve uptime, energy efficiency, grid independence, carbon reduction, and operational continuity, especially in regions with unstable grids or high electricity demand.

United States market for Data Center Microgrids is estimated to increase from US\$

million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Data Center Microgrids is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Data Center Microgrids is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Data Center Microgrids players cover Schneider Electric, ABB Group, Siemens Energy, Eaton, Vertiv, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Data Center Microgrids Industry Forecast" looks at past sales and reviews total world Data Center Microgrids sales in 2025, providing a comprehensive analysis by region and market sector of projected Data Center Microgrids sales for 2026 through 2032. With Data Center Microgrids sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Data Center Microgrids industry.

This Insight Report provides a comprehensive analysis of the global Data Center Microgrids landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Data Center Microgrids portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Data Center Microgrids market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center Microgrids and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Data Center Microgrids.

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center Microgrids market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Grid-Connected Type

Islanded (Off-Grid) Type

Segmentation by Power Capacity:

10 MW

Segmentation by Application:

Hyperscale Data Centers

Colocation Data Centers

Enterprise Data Centers

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Schneider Electric

ABB Group

Siemens Energy

Eaton

Vertiv

Cummins

Caterpillar

GE Vernova

Hitachi Energy

Mitsubishi Electric

Bloom Energy

Tesla

Fluence Energy

Rolls-Royce Power Systems

Generac Power

S&C Electric

Hyundai Electric

LS Electric

Huawei

Delta Electronics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center Microgrids market?

What factors are driving Data Center Microgrids market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Data Center Microgrids market opportunities vary by end market size?

How does Data Center Microgrids break out by Type, by Application?

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