

Global Microgrid Automation Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Microgrid Automation market size is expected to reach \$ 6100 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Microgrid Automation refers to a system-level solution that utilizes advanced monitoring, protection, control, and energy management technologies to coordinate and optimize the real-time operation of distributed power sources (photovoltaics, wind power, energy storage), loads, and grid-connected equipment. Its core functions include seamless switching between grid-connected and islanded modes, frequency/voltage stability control, power balancing dispatch, black start, and fault self-healing. Through a microgrid energy management system (MGEMS) and local controllers, it enables generation forecasting, energy storage dispatch, load management, and market participation. The automation system must respond to millisecond-level disturbances (such as large load switching) and minute-level dispatch commands. It is widely used in remote areas, industrial parks, military bases, and critical infrastructure, and is a key technology for improving renewable energy consumption, power supply reliability, and energy autonomy.

The global microgrid automation landscape is characterized by North America's leadership, Europe's acceleration, and Asia-Pacific's rapid follow-up. North America (especially the United States) has mature applications in military bases, university campuses, and industrial and commercial microgrids, with automation technologies emphasizing seamless on-grid/off-grid switching and black start. Europe (Germany, the UK, and the Netherlands) focuses on the stable control of isolated areas under high renewable energy penetration, emphasizing market interaction with the main grid. The Asia-Pacific region, including China, Japan, and Australia, is experiencing rapid growth in demand due to island power supply, industrial parks, and disaster recovery needs.

Future trends include AI predictive scheduling, blockchain transactions, edge real-time control, and cloud platform collaboration. Key obstacles include high initial investment, inconsistent standards, ambiguous grid connection policies, and a shortage of maintenance personnel. Dynamically, the IEC 62898 microgrid standard is gradually being implemented, the integration of virtual power plants and microgrid automation technologies is deepening, and frequent extreme weather events are accelerating the implementation of off-grid resilient microgrid projects.

This report studies the global Microgrid Automation demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Microgrid Automation, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Microgrid Automation that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Microgrid Automation total market, 2021-2032, (USD Million)

Global Microgrid Automation total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Microgrid Automation total market, key domestic companies, and share, (USD Million)

Global Microgrid Automation revenue by player, revenue and market share 2021-2026, (USD Million)

Global Microgrid Automation total market by Type, CAGR, 2021-2032, (USD Million)

Global Microgrid Automation total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Microgrid Automation market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB Group, AEG Power Solutions, Echelon Corporation, GE Vernova, Honeywell, Lockheed Martin Corporation, Schneider Electric, Siemens AG, Wipro Limited, S & C Electric Company, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Microgrid Automation market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Microgrid Automation Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Microgrid Automation Market, Segmentation by Type:

Fuel Cell

CHP

Others

Global Microgrid Automation Market, Segmentation by Microgrid Type:

Grid-Connected Microgrid

Islanded Microgrid

Off-Grid Standby Microgrid

AC/DC Hybrid Microgrid

Mobile/Emergency Microgrid

Global Microgrid Automation Market, Segmentation by Capacity:

Capacity:

Capacity: 500 kW ~ 5 MW

Capacity: 5 MW ~ 50 MW

Capacity: > 50 MW

Global Microgrid Automation Market, Segmentation by Application:

Commercial

Residential

Defence

Companies Profiled:

ABB Group

AEG Power Solutions

Echelon Corporation

GE Vernova

Honeywell

Lockheed Martin Corporation

Schneider Electric

Siemens AG

Wipro Limited

S & C Electric Company

Grid Micro

Fimer

Eaton

Hitachi

Toshiba Energy Systems

Mitsubishi Electric

Ranial Systems

GUODIAN NANJING AUTOMATION

CYG

Key Questions Answered

1. How big is the global Microgrid Automation market?
2. What is the demand of the global Microgrid Automation market?
3. What is the year over year growth of the global Microgrid Automation market?
4. What is the total value of the global Microgrid Automation market?
5. Who are the Major Players in the global Microgrid Automation market?
6. What are the growth factors driving the market demand?

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