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# Microgrid Controller Market Research Report – Global Forecast till 2032

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## Description:

## Global Microgrid Controller Market Overview:

Microgrid Controller Market Size was valued at USD 3.9 billion in 2022. The Microgrid Controller market industry is projected to grow from USD 4.51 Billion in 2023 to USD 14.43 billion by 2032, exhibiting a compound annual growth rate (CAGR) of 15.65% during the forecast period (2023 - 2032). Increased Interest in microgrids and the adoption of renewable energy sources is on the rise to lower our carbon footprint are the key market drivers enhancing market growth.

Global Microgrid Controller Market Overview

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

## Microgrid Controller Market Trends

- Growing demand for dependable, resilient power sources driving the market growth

Market CAGR for microgrid controller technology is driven by the increasing adoption of enormous grids constructed, with thousands of miles of wiring linking power plants to residences and businesses. Transmission lines provide electricity across national borders from central power facilities that generate it using fossil fuels in remote areas. However, the drawbacks of these power plants, particularly their inefficient power transmission, have become increasingly apparent in recent years. Using fossil fuels to generate energy is a major contributor to pollution and climate change, which plague conventional systems.

Additionally, these grids are susceptible to natural disasters, which frequently lead to network malfunctions or blackouts. Increased environmental protection measures in line with stringent rules limiting greenhouse gas emissions have encouraged businesses to implement effective energy conservation systems. At its core, this transformation was a reorganization of operations and regulations in key energy markets, with support from a steady improvement in technical products' efficiency, adaptability, and performance. In addition, cutting-edge distributed power-generating systems drive the microgrid control system market, which is in step with the increasing popularity of renewable power sources.

For instance, the United Arab Emirates has set a target of having 50% of its energy come from renewable sources by 2032. That would cut the United Arab Emirates (UAE) carbon impact from producing electricity by 70%. As a result, demand for microgrid controller is anticipated to increase throughout the projection period due to the rising technology rate. Thus, the driving factor of the Microgrid Controller market revenue.

## Microgrid Controller Market Segment Insights:

### Microgrid Controller Connectivity Insights

The Microgrid Controller Market segmentation, based on connectivity, includes Grid and Off-Grid/Islanded. In 2022, the grid segment led the microgrid controller market in terms of revenue. Interconnected microgrids consist of several generators, complex controllers, and distribution systems that receive power from the larger grid. These technologies are in high demand because of their many benefits, including increased grid resilience, improved electricity quality, and less environmental impact.

Figure 1: Microgrid Controller Market, by Offering, 2022 & 2032 (USD billion)

Microgrid Controller Market, by Offering, 2022 & 2032

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

### Microgrid Controller Offering Insights

The Microgrid Controller Market segmentation, based on offering, includes hardware, software, and services. The

category with the largest market share is software, expected to grow fastest at a CAGR of 15.65% over the next several years. Microgrid software is an all-inclusive platform for planning, visualizing, and optimizing a project that everyone can use, from investors to engineers.

## Microgrid Controller Vertical Insights

The Microgrid Controller Market segmentation, based on vertical, includes government, oil & gas, energy & power, industrial, military and defense, and commercial. The military and defense category is expected to develop at a CAGR of 15.65% over the projected period, making up the largest share of the market. Power reliability is a major issue for any military activity on a global scale. Since microgrids are self-sufficient, they address two important military concerns—physical and cyber security.

## Microgrid Controller Regional Insights

By region, the study provides market insights into North America, Europe, Asia-Pacific, and the Rest of the World. The North American microgrid controller market will dominate because, in the regional power system, it is crucial to replace and update aging infrastructure constantly. In addition, the expansion of the market in North America is largely attributable to the region's supportive government efforts stemming from the industrial revolution and its massive investments in R&D for microgrid production.

Further, the major countries studied in the market report are The U.S., Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

**Figure 2: Microgrid Controller Market SHARE BY REGION 2022 (%)**

### Microgrid Controller Market SHARE BY REGION 2022

Source: Secondary Research, Primary Research, MRFR Database, and Analyst Review

Europe's Microgrid Controller market is the second-largest due to increased federal funding and state-level resilience initiatives. Further, the German Microgrid Controller market held the largest market share, and the UK Microgrid Controller market was the fastest-growing market in the European region.

The Asia-Pacific Microgrid Controller Market is expected to grow at the fastest CAGR from 2023 to 2032. The regional market expansion is anticipated to increase the capacity of existing electrical grids, invest heavily in electrification projects, and upgrade and modernize existing grid microgrid controllers in the Asia-Pacific region. Moreover, China's Microgrid Controller market held the largest market share, and the Indian Microgrid Controller market was the fastest-growing market in the Asia-Pacific region.

For instance, Asia-Pacific Cummins bought Meritor, a major commercial vehicle and industrial supply chain player for the drivetrain, mobility, braking, service, and electric powertrain solutions. Cummins is now in a prime position to supply integrated powertrain solutions for internal combustion and electric power applications thanks to the acquisition of Meritor and the subsequent merger of that company's personnel, products, and skills in axle and brake technology. To benefit people's lives and the earth, Cummins and Meritor have taken a step forward by acquiring a company specializing in decarbonized powertrain solutions.

## Microgrid Controller Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development to expand their product lines, which will help the microgrid controller market grow even more. Market participants are also undertaking various strategic activities to expand their global footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, Microgrid Controller industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics manufacturer use in the global Microgrid Controller industry to benefit clients and increase the market sector. In recent years, the Microgrid Controller industry has offered some of the most significant technological development. Major players in the Microgrid Controller market, including Schneider Electric (France), Lockheed Martin Corporation (US), S&C Electric Company (US), Emerson Electric Co. (US), Eaton Corporation (Ireland), Honeywell International Inc. (US), Siemens (Germany), Schweitzer Engineering Laboratories (US), GE Power (US), ABB (Switzerland), Power Analytics (US), HOMER Energy LLC (US), Pareto Energy (US), Advanced MicroGrid Solutions Inc. (US), Qinous GmbH (Germany) and others are attempting to increase market demand by investing in research and development operations.

ABB Group Ltd. is a worldwide company headquartered in Zürich, Switzerland, founded by Swedes and Swiss. Allmänna Svenska Elektriska Aktiebolaget (ASEA) of Sweden and Brown, Boveri & Cie of Switzerland combined in 1988 to form ASEA Brown Boveri, commonly referred to as "ABB". ABB is at the forefront of electrification and automation technology, which pave the way for a greener, more efficient future. The company's products integrate engineering expertise with computer programs to improve the making, moving, powering, and using of objects. ABB has over 105,000 dedicated workers building on the company's 130 years of experience to drive innovations that speed up the industrial transformation. In June 2022, Modular facilities were designed by ABB and the Swiss firm Axpo in Italy to produce green hydrogen at the lowest possible cost while adhering to stringent environmental regulations.

Although the company operates globally, Honeywell International Inc.'s headquarters are in Charlotte, North Carolina. Honeywell Performance Materials & Technologies' (PMT) daily objective is to create future-forward solutions that alter how the world operates as a global technological leader. Honeywell PMT's scientists, chemists, and engineers work tirelessly to advance technology and usher in the future. In June 2022, Honeywell worked with a commercial brand of Duke Energy (the American electric power and natural gas holding company) called Duke Energy Sustainable Solutions (DESS). The companies' goal in working together was to create and distribute nationwide solutions for energy resilience.

## Key Companies in the Microgrid Controller market include

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Schneider Electric (France)

- Lockheed Martin Corporation (US)
- S&C Electric Company (US)
- Emerson Electric Co. (US)
- Eaton Corporation (Ireland)
- Honeywell International Inc. (US)
- Siemens (Germany)
- Schweitzer Engineering Laboratories (US)
- GE Power (US)
- ABB (Switzerland)
- Power Analytics (US)
- Princeton Power Systems (US)
- Spirae Inc. (US)
- HOMER Energy LLC (US)
- Pareto Energy (US)
- Advanced MicroGrid Solutions Inc. (US)
- Qinous GmbH (Germany)

## Microgrid Controller Industry Developments

**March 2022:** SEL has expanded the utility of its SEL-751 Feeder Protection Relay by introducing two new cards that may be upgraded in the field.

**April 2022:** Schneider Electric has released the EcoStruxure Energy Hub, an Internet of Things software as a service platform for controlling digitized power and energy systems.

## Microgrid Controller Market Segmentation:

### Microgrid Controller Connectivity Outlook

- Grid
- Off-Grid/Islanded

## Microgrid Controller Offering Outlook

- Hardware
- Software
- Service

## Microgrid Controller Vertical Outlook

- Government
- Oil & Gas
- Energy & Power
- Industrial
- Military and Defense
- Commercial

## Microgrid Controller Regional Outlook

- North America
  - US
  - Canada
- Europe
  - Germany
  - France
  - UK
  - Italy

- Spain
- Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Australia
  - South Korea
  - Australia
  - Rest of Asia-Pacific
- Rest of the World
  - Middle East
  - Africa
  - *Latin America*

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