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Global Microgrid as a Service (MaaS) Market Size Study & Forecast, by Grid Type (Grid Connected and Remote or Islanded) by Service Type (Engineering & Design, SAAS, Monitoring & Control, and Operation & Maintenance) by Vertical and Regional Forecasts 2025–2035

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Abstracts

The Global Microgrid as a Service (MaaS) Market is valued approximately at USD 2.9 billion in 2024 and is anticipated to grow at a robust CAGR of 15.86% over the forecast period 2025–2035. Microgrid as a Service represents an innovative business model that delivers turnkey energy solutions combining design, integration, operation, and optimization of microgrids under a single service framework. Instead of owning complex distributed energy systems, enterprises and municipalities can now leverage MaaS providers to deploy and manage microgrids that integrate renewable energy, energy storage, and intelligent control systems. This shift toward service-based infrastructure ownership has significantly reduced upfront capital expenditure and accelerated the adoption of decentralized power systems worldwide. The rapid transition to renewable energy, coupled with the rising vulnerability of traditional power grids to outages and cyber threats, is stimulating the demand for MaaS across both developed and emerging economies.

Moreover, the accelerating urbanization, stringent carbon neutrality targets, and increased grid modernization initiatives have converged to propel the market's expansion. According to the International Energy Agency (IEA), renewable energy capacity additions surpassed 500 GW in 2023 — a record that underscores the urgency of integrating localized energy management systems. Microgrids, often powered by solar, wind, and battery storage, have proven indispensable for ensuring power

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resilience, especially in remote or disaster-prone areas. MaaS providers are capitalizing on this by offering subscription-based, cloud-monitored solutions that combine analytics, predictive maintenance, and real-time optimization. Despite the promising growth trajectory, market expansion is partially restrained by regulatory complexities, interoperability challenges between distributed assets, and high integration costs in legacy grid infrastructures. Nevertheless, as governments and private sectors increasingly prioritize energy independence and reliability, MaaS is rapidly emerging as a cornerstone of the global clean energy ecosystem.

The detailed segments and sub-segments included in the report are:

By Grid Type:

Grid Connected

Remote or Islanded

By Service Type:

Engineering & Design

SAAS

Monitoring & Control

Operation & Maintenance

By Vertical:

Commercial

Industrial

Military & Defense

Utility

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Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

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RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Among all segments, the Grid Connected microgrid type is expected to dominate the market throughout the forecast period. This dominance is largely driven by the increasing integration of renewable energy into centralized grid systems, which requires stable, efficient, and flexible microgrid architectures. Grid-connected microgrids not only provide energy savings and enhanced reliability but also enable utilities to balance peak demand, reduce transmission losses, and optimize distributed energy resources. The widespread application in urban and industrial sectors, coupled with strong policy support for grid modernization, has fueled the dominance of this segment. Furthermore, technological advances in grid-interactive inverters and digital control systems have improved synchronization with main grids, ensuring a seamless transition between on-grid and off-grid operations.

From a revenue standpoint, Operation & Maintenance (O&M) services currently account for the largest market share. The recurring nature of O&M contracts, which encompass system optimization, performance monitoring, predictive analytics, and component lifecycle management, generates steady revenue streams for MaaS providers. These services are particularly critical as microgrids grow increasingly complex, integrating hybrid renewable assets, energy storage units, and AI-based monitoring platforms. The

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shift from reactive maintenance to predictive and condition-based maintenance has also bolstered the growth of this segment. Furthermore, as energy-as-a-service business models evolve, the demand for long-term service partnerships and managed energy performance contracts is expected to remain a key revenue driver for MaaS vendors globally.

The key regions considered for the Global Microgrid as a Service (MaaS) Market study include North America, Europe, Asia Pacific, Latin America, and the Middle East & Africa. North America currently dominates the market due to its advanced energy infrastructure, supportive government policies, and strong private sector participation in microgrid deployment. The U.S., in particular, has witnessed a surge in MaaS adoption across educational institutions, healthcare facilities, and military installations that prioritize energy resilience and sustainability. Meanwhile, Asia Pacific is projected to register the fastest growth over the forecast period, fueled by rapid industrialization, population expansion, and extensive renewable energy integration in nations like India, China, and Japan. Europe continues to play a pivotal role, focusing on decarbonization and distributed grid stability through smart grid policies and funding initiatives. Latin America and the Middle East & Africa are emerging markets with growing demand for off-grid electrification, particularly in remote regions where grid access remains limited.

Major market players included in this report are:

Siemens AG

General Electric Company

Schneider Electric SE

ABB Ltd.

Eaton Corporation plc

Hitachi Energy Ltd.

ENGIE SA

Tesla, Inc.

Honeywell International Inc.

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Spirae LLC

Bloom Energy Corporation

HOMER Energy by UL Solutions

PowerSecure, Inc.

Ameresco, Inc.

Enel X

Global Microgrid as a Service (MaaS) Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period - 2025-2035

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for

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stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players. The detailed segments and sub-segments of the market are explained below:

Key Takeaways:

- Market Estimates & Forecast for 10 years from 2025 to 2035.
- Annualized revenues and regional-level analysis for each market segment.
- Detailed analysis of the geographical landscape with country-level analysis of major regions.
- Competitive landscape with information on major players in the market.
- Analysis of key business strategies and recommendations on future market approach.
- Analysis of the competitive structure of the market.
- Demand side and supply side analysis of the market.

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CHAPTER 9. COMPETITIVE INTELLIGENCE

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