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Microgrid as a Service Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented, By Grid Type (Grid Connected and Islanded), By Service (Engineering & Design Service, Software Service, Monitoring Services, Operation & Maintenance Services), and By End-User (Remote, Utility Distribution, Commercial & Industrial, Community, Military, and Others), By Region & Competition, 2021-2031F

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Abstracts

The Global Microgrid as a Service (MaaS) Market is set for substantial growth, with projections indicating an increase from USD 3.73 Billion in 2025 to USD 9.27 Billion by 2031, reflecting a robust 16.38% Compound Annual Growth Rate (CAGR). MaaS operates as a subscription-based model, enabling third-party developers to fund, install, and manage decentralized energy systems. This provides clients with dependable power solutions, eliminating the need for upfront capital expenditures. The market's expansion is primarily fueled by a rising need for energy resilience against grid instability and the strategic drive to integrate distributed renewable energy sources while conserving capital for core business functions. This service framework effectively transfers the technical and financial complexities of energy infrastructure from end-users to providers, thereby accelerating adoption across commercial and industrial sectors.

However, the industry faces considerable hurdles, notably the absence of uniform regulatory frameworks and intricate interconnection protocols that impede swift project implementation. Service providers encounter significant bottlenecks in navigating varied

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utility policies and obtaining necessary permits, which hampers global scaling efforts. The substantial increase in global renewable energy capacity, by 582 gigawatts in the preceding year as of 2025, according to the International Renewable Energy Agency, underscores the growing base of distributed assets that critically require the advanced and adaptable management capabilities inherent in these service agreements.

Market Driver

A pivotal driver for market growth is the widespread adoption of Operational Expenditure (OpEx) models over traditional Capital Expenditure (CapEx) for procurement. This financial shift empowers organizations to implement advanced microgrid infrastructure without incurring substantial initial costs, thus broadening access to decentralized energy solutions. Through Energy-as-a-Service (EaaS) agreements, clients effectively delegate asset management and performance risks to specialized third-party providers, only paying for the energy capacity or specific outcomes received. The increasing financial commitment to this model is evident, with partners like Unison Energy and Sunrock having collectively secured $7.5 billion in deployable capital for energy resiliency projects, as announced by Schneider Electric in September 2025 under their 'Accelerating Resilient Infrastructure Initiative'.

Concurrently, a strong catalyst for the market is the surging demand for enhanced energy resilience amidst growing grid instability. Deteriorating utility infrastructure and increasingly frequent extreme weather incidents threaten conventional power reliability, compelling commercial and industrial entities to adopt service-based microgrids to guarantee uninterrupted operations. Data from the U.S. Energy Information Administration's December 2025 'Electric Power Annual 2024' report indicates that U.S. electricity customers endured an average of 11 hours of power outages in 2024, nearly twice the annual average of the previous decade. This escalating vulnerability underscores the critical need for swift deployment of managed grid solutions, exemplified by Husk Power Systems' January 2025 report of 100% growth in its community solar minigrid portfolio, now serving over 400 communities throughout Africa and Asia.

Market Challenge

A primary impediment to the Global Microgrid as a Service Market is the lack of standardized regulatory frameworks coupled with intricate interconnection processes. Service providers frequently face substantial operational difficulties in navigating

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disparate utility policies across various geographic regions. This regulatory fragmentation compels developers to allocate significant resources toward obtaining permits and ensuring compliance, diverting focus from actual asset deployment. Such challenges invariably prolong project timelines beyond original estimates, eroding the financial predictability inherent in subscription-based models and deterring potential investors who seek stable, consistent returns.

The inability to streamline these complex procedures directly compromises the scalability of distributed energy solutions. As reported by the International Energy Agency in 2025, around 3,000 gigawatts of renewable energy capacity globally remained stuck in grid connection queues due to administrative holdups and technical limitations. This significant bottleneck prevents service providers from effectively integrating distributed assets, consequently elevating the perceived risk associated with financing these decentralized systems. Such delays not only interrupt revenue streams for providers but also constrain the market's capacity to expand into new regions where grid infrastructure modernization lags behind the growing demand for decentralized power.

Market Trends

A significant market trend is the evolution towards modular and scalable microgrid architectures, which is transforming the industry by replacing custom-engineered projects with standardized, pre-integrated systems. This strategic shift considerably shortens deployment schedules and lessens technical complexities, making decentralized energy solutions more appealing to institutional investors who prioritize asset replicability and straightforward valuation. This trend is also spurring consolidation and portfolio expansion among leading developers, as modular designs enable the rapid aggregation of distributed assets. An example of this is Scale Microgrids, which, according to a January 2025 Renewable Energy World article, has leveraged this scalable approach to accumulate a strong portfolio of approximately 250 megawatts of operational and developing assets, making it an attractive target for acquisition by EQT Transition Infrastructure.

Another crucial trend is the convergence of microgrids with Vehicle-to-Grid (V2G) infrastructure, creating a novel paradigm where electric vehicles (EVs) act as active, distributed energy storage resources rather than mere loads. Through the incorporation of bidirectional charging, service providers can pool EV battery capacities to deliver essential grid services, including frequency regulation and peak shaving. This capability generates additional revenue streams that help to offset the operational expenses of the

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microgrid. This integration is greatly aided by the swift expansion of V2G-compatible vehicles, which collectively form a vast, untapped energy reserve. As highlighted in the Department of Energy's January 2025 'Vehicles-to-Grid Integration Assessment Report', the potential of this synergy is firmly supported by the rapid electrification of the transportation sector, evidenced by 1.2 million EVs sold in the United States alone in 2023.

Key Market Players

Schneider Electric SE

Siemens AG

ABB Ltd

Honeywell International Inc.

General Electric Company

Enchanted Rock LLC

Tesla, Inc.

Eaton Corporation Plc

W?rtsil? Corporation

Engie S.A.

Report Scope

In this report, the Global Microgrid as a Service Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Microgrid as a Service Market, By Grid Type

Grid Connected

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France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

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Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Microgrid as a Service Market.

Available Customizations:

Global Microgrid as a Service Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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