



# Smart Microgrid Competition Landscape

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How will smart micro-grid-connected PV systems impact the global market?

The grid-connected product segment dominated the global market and accounted for more than 65.0% of the overall revenue share in 2023. The rising popularity of smart micro-grid-connected PV systems to provide electricity to consumers by reducing transmission losses is expected to have a substantial impact.

How big is the microgrid market?

Image #169; Mordor Intelligence. Reuse requires attribution under CC BY 4.0. The Microgrid Market size is estimated at USD 20.54 billion in 2025, and is expected to reach USD 46.99 billion by 2030, at a CAGR of 17.85% during the forecast period (2025-2030).

Why is the microgrid market growing?

The impressive growth trajectory of the Microgrid Market is driven by factors such as increasing emphasis on decarbonization, growing need for reliable and uninterrupted power supply, and the surging deployment of microgrids for rural electrification.

How big is the microgrid market in 2024?

By power rating, the 1-5 MW segment commanded 43% of the microgrid market size in 2024; 5-10 MW systems are advancing at a 20% CAGR between 2025 and 2030. By end-user, commercial and industrial sites captured 43% microgrid market share in 2024, while utilities represent the fastest-growing group at 21% CAGR.

Developing countries are widely using remote microgrids to provide electricity to remote locations. The off-grid is a speedily growing category, with an expected CAGR of over 18.8% during 2024-2030 in ...

Primary research was also conducted to identify the segmentation types, key players, competitive landscape, and key market dynamics, such as drivers, restraints, opportunities, challenges, and ...

Download a free sample report to explore data scope, segmentation, Table of Content and analysis before you make a decision.

More than 1,000 smart microgrid projects have been deployed globally across industrial, commercial, and community applications. By 2030, over 70% of new electricity generation capacity is expected to ...

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Gain an in-depth understanding of the competitive landscape and growth potential in the Smart Microgrid Controller market by discovering more analytical resources. Access critical market...

The transition toward smart cities, electric vehicle charging infrastructure, and net-zero energy targets is driving demand for flexible and scalable microgrid architectures.

Rising concerns over climate change and the need for sustainable energy solutions are key drivers for market expansion. The integration of advanced technologies such as artificial intelligence ...

Behind that growth are falling inverter and battery costs, grid-forming technology that lets renewable penetration exceed 90%, and policy mandates that now tie resilience directly to regulated ...

The global smart microgrid market is projected to reach \$46.5 billion by 2026, growing at a 9.3% CAGR since 2020 . But here's the kicker: China's sector grew 6.8% in 2024 alone, signaling ...

From 2024 through 2033, the Smart Microgrid Controller System Market is expected to register robust growth driven by AI adoption, smart development solutions, and the rising need for circular economic ...

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