



# Microgrid Outlook 2025

Dutch cyclists rode down the world's first bike path made entirely of discarded plastic this week, in a move aimed at reducing the millions of tonnes wasted every year.

Local communities generating their own power could become 90% energy self-sufficient, with potential to be fully self-reliant in the future, according to a Dutch study.

By power source, solar photovoltaic arrays accounted for 37.9% of the microgrid market size in 2025 and are forecast to grow at an 18.5% CAGR to 2031. By type, hybrid AC/DC ...

Solutions like demand-side response (DSR) can provide energy flexibility and security, according to the World Economic Forum's Energy Transition Index 2025.

The global microgrid market size was valued at USD 13.58 billion in 2025 and is projected to grow from USD 15.63 billion in 2026 to USD 57.58 billion by 2034, exhibiting a CAGR of 17.70% ...

Microgrids are localized power systems comprised of distributed generation assets, energy storage devices, and smart distribution technologies that interoperate through advanced control systems and ...

The North America microgrid market size exceeded USD 5.7 billion in 2024 and is expected to grow at a CAGR of 7.7% from 2025 to 2034, driven by advancements in renewable energy, ESS, and ...

Microgrids can step in when the main electricity grid fails. And as they can be powered by renewables, they are a sustainable and affordable option, too.

The microgrid market is projected to soar from US\$48.52 billion in 2025 to US\$163.17 billion by 2033, boasting a 16.37% CAGR. This surge is driven by rising demand for independent, ...

XENDEE is the team and technology supporting distributed energy and microgrid energy solutions. It is a comprehensive distributed energy resource (DER) design and operation software platform. Its ...

Microgrid development status across the states, alongside recent policy and regulatory developments. Overview of different business models and key players in the competitive landscape.

Tennessee's Chattanooga Metropolitan Airport recently became the first U.S. airport powered by 100 percent solar energy. Started in 2010, the \$10 million microgrid project includes a ...

Renewables-based microgrids and peer-to-peer (P2P) energy trading can boost energy security as they are



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self-sufficient and run independent of large grids.

Read about the transformative trends underscoring how microgrids are driving the New Energy Landscape in 2025.

This report delves into the state of the US microgrid market and Wood Mackenzie's outlook through 2029. We are currently tracking 4,870 microgrid projects that are operational, stalled, ...

Germany is the fourth-largest economy in the world and ranks 11 out of 120 countries on the ETI 2023. Since 2014, Germany's score on the ETI has increased by 6%, which shows both the ...

Explore the leading trends, challenges, and opportunities shaping microgrids in 2025. Discover how energy leaders can drive innovation and market growth.

The U.S. microgrid market size was estimated at USD 14.82 billion in 2024 and is projected to grow at a CAGR of 18.2% from 2025 to 2030. Market growth is being propelled by rising investment in grid ...

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