

Microgrid Application Summary Report



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Overview

This report, produced in partnership with the Electric Power Research Institute (EPRI), highlights basic microgrid technologies, drivers of microgrid adoption, use cases, barriers and challenges, and the three discrete business models that are supporting modern. This report, produced in partnership with the Electric Power Research Institute (EPRI), highlights basic microgrid technologies, drivers of microgrid adoption, use cases, barriers and challenges, and the three discrete business models that are supporting modern. Microgrids serve as an effective platform for integrating distributed energy resources (DERs) and achieving optimal performance in reduced costs and emissions while bolstering the resilience of the nation's electricity system. The value of microgrids is further enhanced with issuance of FERC Order. Microgrids, which are localized electrical grids that can disconnect from the traditional grid and operate autonomously using local energy sources, represent a critical defensive tool against widespread power disruptions, yet remain challenging to implement due to regulatory complexity, high. National renewable asset microgrid capacity is expected to grow 3.5 times, bringing total to 32,470 MW by 2030. Microgrid assets are a powerful engine for change, not only for our environment and for resiliency, but also for our economy. During the past six years, 21 states have proposed and. NREL is the only DOE national laboratory solely dedicated to advancing energy efficiency (EE) and renewable energy (RE) technologies and applications. Since its inception, NREL has supported both the public and the private sectors in implementing EE and RE systems and strategies to lower energy use. For details on how your data is used and stored, see our Privacy Notice. 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, under construction or planned. The market is expected to grow from USD 36.1 billion in 2025, at a CAGR of 18.

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[User Objectives and Design Approaches for Microgrids: Options ...](#)

This report was authored by Kiera Zitelman, Senior Manager, NARUC Center for Partnerships & Innovation with support from Kirsten Verclas and Sam Cramer at NASEO, as part of the NARUC ...

[Microgrid Market Size, Share, Growth , Industry Report, 2033](#)

Microgrid Market Summary The global microgrid market size was estimated at USD 99.76 billion in 2025 and is projected to reach USD 406.23 billion by 2033, expanding at a CAGR of 19.7% from 2026 to ...



[Microgrids: Expanding Applications, Implementations, and](#)

Intended to be an informational resource for readers less familiar with the concept of a microgrid, the report also includes a list of recommended reading. Click here to get the executive summary. SEPA ...

[US microgrid outlook 2025 Report , Wood Mackenzie](#)

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, ...



SUMMARY OF MICROGRID ACTIVITIES IN THE USA

During the past six years, 21 states have proposed and enacted 53 microgrid-related bills largely for grid reliability and resilience. These often arise following an extreme weather event or ...



US Microgrid Market Analysis

This report analyzes the microgrid market landscape across 21 states and territories, providing insights into regulatory frameworks, incentive programs, commercial opportunities, and strategic approaches ...



Microgrid and Integrated Systems Program

While DOE has made significant progress in supporting microgrid deployments, there remain research gaps for both remote microgrid, and microgrids for critical infrastructure, which are being addressed ...



[REopt/Microgrid Analysis: Cooperative Research and ...](#)

A PowerPoint summary or report (up to 10 pages) describing the renewable technologies, sizes, capital costs, and lifecycle costs will be provided. This analysis will help inform CU's overall energy strategy ...



[Microgrid Market Size & Share, Growth Analysis 2035](#)

Microgrid Market Size - By Grid Type, By Connectivity, By Power Source, By Storage Device, By Application, Growth Forecast, 2026 - 2035 Report ID: GMI1187 , Published Date: January 2026

[Advancements and Challenges in Microgrid Technology: A...](#)

ABSTRACT The concept of microgrids (MGs) as compact power systems, incorporating distributed energy resources, generating units, storage systems, and loads, is widely acknowledged ...



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