



State Grid Micro-Electricity





Overview

A microgrid is a small network of interconnected electricity components that can function independently from the utility grid when necessary, such as during an extreme weather event. Local electricity generation, battery storage, and generators feed power to the microgrid. Authorized by Section 40101(d) of the Bipartisan Infrastructure Law (BIL), the Grid Resilience State and Tribal Formula Grants program is designed to strengthen and modernize America's power grid against wildfires, extreme weather, and other natural disasters that are exacerbated by the climate. Many State Energy Offices and Public Utility Commissions (PUCs) have been tasked by their governors and legislatures with translating this interest into action by designing programs, policies, rules, and regulations for microgrids. As a result, the National Association of State Energy Officials. Raleigh, NC - (July 23, 2025) The NC Clean Energy Technology Center (NCCETC) released its Q2 2025 edition of The 50 States of Grid Modernization. The quarterly series provides insights on state regulatory and legislative discussions and actions on grid modernization, utility business model and rate. rgy resources (DER). Microgrids, which can. NLR has been involved in the modeling, development, testing, and deployment of microgrids since 2001. The State worked alongside contractors S & C Electric and NORESKO to.



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[Microgrids: State Policies To Bolster Energy Resilience](#)

This report will explain how microgrids operate, the ways in which they can support the reliability and resilience of the power grid and the policies state legislatures have adopted to support ...

Microgrids

Microgrids provide less than 0.3 percent of U.S. electricity, but their capacity has grown by almost 11 percent in the past four years. Of the 692 microgrids in the United States, most are ...



STATE SCORECARD 2024

a meaningful solution for the operational needs of the state electric grid and the fundamental architecture of the grid supports robust contributions from distributed energy resources and microgrids.

[The 50 States of Grid Modernization Q2 2025: States Pursue Rules for](#)

The quarterly series provides insights on state regulatory and legislative discussions and actions on grid modernization, utility business model and rate reforms, energy storage, microgrids, ...



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Microgrid Overview

Microgrids that incorporate renewable energy resources can have environmental benefits in terms of reduced greenhouse gas emissions and air pollutants. In some cases, microgrids can sell power ...



[State Microgrid Policy, Programmatic, and Regulatory Framework](#)

This framework provides relevant background information for State Energy Offices and PUC consideration, regardless of their state's microgrid landscape, through examples from peers as states ...



ESS



[Microgrids: A review, outstanding issues and future trends](#)

A microgrid, regarded as one of the cornerstones of the future smart grid, uses distributed generations and information technology to create a widely distributed automated energy delivery ...

Microgrids , Grid Modernization , NLR



Advanced microgrids enable local power generation assets--including traditional generators, renewables, and storage--to keep the local grid running even when the larger grid ...



[Colorado Microgrid Roadmap , Colorado Energy Office](#)

To inform the creation of the roadmap, the state collected public comment and hosted a series of interactive meetings to gather ideas and feedback on grid resiliency and microgrid solutions from a ...

[State Policy Innovations Crucial to Adoption of Microgrid Technology](#)

Microgrids can improve resilience, decarbonization and affordability of the electric grid, according to the U.S. Department of Energy. However, legacy state energy policies remain a barrier ...





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