

# State Grid Integrated Energy Microgrid



## Overview

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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 across the country have implemented varying strategies to enable microgrids. Raleigh, NC - (J) 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. 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. NLR has been involved in the modeling, development, testing, and deployment of microgrids since 2001. A microgrid is a group of interconnected loads and distributed energy resources that acts as a single controllable entity with respect to the grid. As a result, the National Association of State Energy Officials. rgy resources (DER). The nation simultaneously faces increasing threats from extreme weather events and opportunities to electrify entire sectors of the economy and address ongoing inequities in energy access. microgrid landscape, said Think Microgrid in its.

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### The 50 States of Grid Modernization Q2 2025: States Pursue Rules for

The report discusses three trends in grid modernization actions taken in Q2 2025: (1) states mandating procurement of energy storage, (2) lawmakers implementing rules governing ...

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### Microgrid Overview

When the main electric grid loses power, the microgrid goes into island mode (i.e., operates independently of the main electric grid) and serves its own customers with the generation and other ...



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### Despite Innovative Action in Microgrid Policies, States Have a Long ...

Microgrids are groups of distributed energy resources, such as solar modules on a home, connected to a battery system, that can disconnect from the grid and operate independently during a ...

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## State Microgrid Policy, Programmatic, and Regulatory Framework

States are taking various steps to facilitate the deployment of microgrids that improve resilience and further the achievement of other policy goals, such as integrating clean energy, expanding access to ...

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## 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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## Microgrids: State Policies To Bolster Energy Resilience

As state lawmakers consider policies to enhance energy system reliability and resilience, a growing number have looked to the benefits of microgrids. These unique systems represent a ...

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## Cataloging US state policy patterns towards microgrid deployment

One of these solutions is microgrids that can disconnect from the grid and offer grid resilience during an outage. While

this technology is still finding its footing in the industry, states ...

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## STATE SCORECARD 2024

. 24 INTRODUCTION In 2035, microgrids will be the core building block of a modern grid, in which the U.S. Department of Energy (DOE) has envisioned that 30-50% of electricity generation will be served ...

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## Microgrids , Grid Modernization , NLR

A microgrid is a group of interconnected loads and distributed energy resources that acts as a single controllable entity with respect to the grid. It can connect and disconnect from the grid to ...

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## Microgrid and Integrated Systems Program

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 ...

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