

# Micro-innovation of State Grid



## Overview

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As extreme weather and physical and cyber-attacks on grid infrastructure have led to outages of increased duration, scale, and impact on power customers and communities, policy and regulatory attention has shifted toward innovative investments to improve grid resilience. Microgrids can improve resilience, decarbonization and affordability of the electric grid, according to the U. In collaboration with the research group Wood Mackenzie, the industry trade group. 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. 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. A new report by Think Microgrid says most states are doing an insufficient job at deploying microgrids despite developing microgrid roadmaps. A renewable energy microgrid at Wisconsin's second net-zero school.

## Micro-innovation of State Grid



### 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 operate in ...

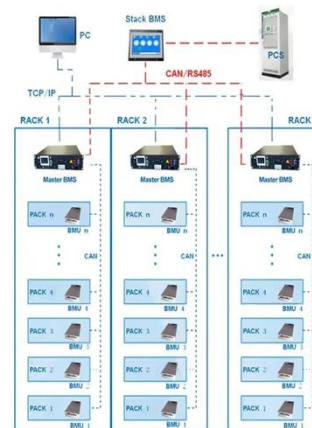
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### Small Systems, Big Impact: Microgrids and the Next Era of Energy

In Alaska, where many communities rely on diesel generation, the state is exploring hybrid microgrids that mix diesel with wind, solar, and battery storage to lower costs and emissions.

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BMS Wiring Diagram



### 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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## American Microgrid Policy Development

While the program has not yet been implemented, it is projected to be the highest-funded state incentive for microgrids. Plans include utilizing public and private capital to implement "resilience-focused, ...

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## State Policy Innovations Crucial to Adoption of ...

Microgrids can improve resilience, decarbonization and ...

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## Despite innovative action in microgrid policies, states have a long way

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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## Cataloging US state policy patterns towards microgrid deployment

Along with designing a clear regulatory structure for multi-property microgrids,



they also recommended using technological innovation as one of the tools to make more progress and ...

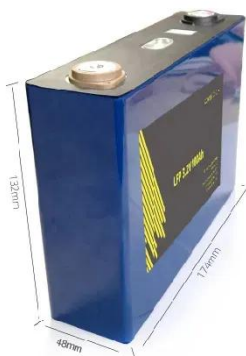
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## Microgrids spread across US as Big Tech, utilities shore up power

In California, utilities are using microgrids to improve grid resilience and reliability, using funds from a \$200 million Microgrid Incentive Program (MIP) established by the state government

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## 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 ...

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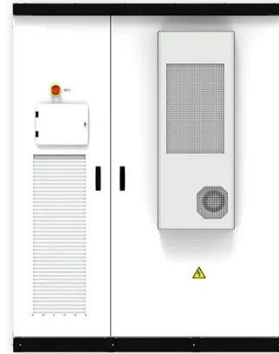
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## State Policy Innovations Crucial to Adoption of Microgrid Technology

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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## Microgrid Overview

If the microgrid is grid-connected (i.e., connected to the main electric grid), then the community can draw power from the main electric grid to supplement its own generation as needed or sell power back to ...

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