Microgrid Support Policy

Overview

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. The reliability and resilience of the United States electric grid is a paramount concern for state and federal policymakers and regulators. The threat from natural disasters has grown in intensity and frequency. Microgrids, localized energy grids that can operate independently or in conjunction with the main power grid, are gaining traction as a solution for enhancing energy. This article is an update covering microgrid policies and implementation in the United States as of 2023. Landmark events such as the COP 28 conference and the passing of Biden's IRA have demonstrated how. 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.

Microgrid Support Policy

[Advancements and Challenges in Microgrid Technology: A ...]

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

[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 ...

[State Microgrid Policy, Programmatic, and Regulatory Framework]

Conduct action planning and identify next steps for State Energy Offices and PUCs to accelerate deployment of microgrids in support of other state priorities such as grid resilience and transportation ...

[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 ...

[What Policy Changes Support Microgrids? -> Question]

This section examines the policy changes necessary to support microgrids from a critical, research-backed perspective, considering the social, environmental, and regulatory implications.

[Microgrids: State Policies To Bolster Energy Resilience]

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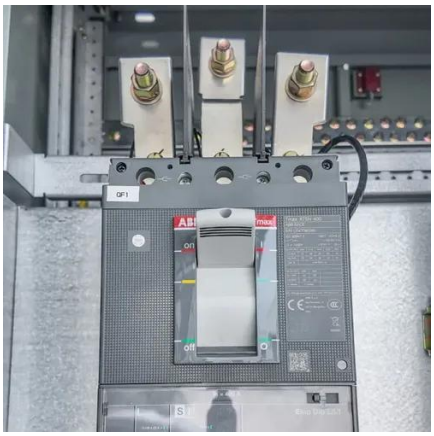
[Microgrids: State Policies To Bolster Energy Resilience]

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 ...

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 ...



[Grid Deployment Office U.S. Department of Energy]

In terms of microgrid design, this means that the microgrid does not have to be built to serve power 24/7, but instead can be built to provide power during times the main electric grid experiences an outage ...

American Microgrid Policy Development

This article is an update covering microgrid policies and implementation in the United States as of 2023. There has been a substantial evolution in American microgrid development in the early 2020s.

[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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