

State Grid Microgrid Research



Overview

This brief includes keys to barriers, potential solutions, and next steps to advance microgrid deployment. Microgrids have a unique role in transforming the electric grid. 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. It can connect and disconnect from the grid to . 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 . The National Regulatory Research Institute (NRRI) was founded in 1976 by the National Association of Regulatory Utility Commissioners (NARUC). They offer solutions across multiple policy objectives, providing resilience to vulnerable communities during moments when the grid is disrupted, while also utilizing innovative technologies to . 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 .

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2024 Microgrid State Scorecard , PDF , Electrical Grid

The Think Microgrid State Scorecard 2024 evaluates five main categories: Deployment, Policy, Resilience, Grid Services, and Equity. "Deployment" assesses the existence of a robust market for



STATE SCORECARD 2024

Has the state incorporated microgrid planning into other policy processes, such as prioritizing microgrids as a resilience or distribution modernization solution, integrating them into resource planning, or

Microgrid Overview

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



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 Industry Update: RE+ Microgrids



Microgrids , Grid Modernization , NLR

This information can be used to develop research and development agendas for next-generation microgrids that provide cost-effective, reliable, and clean energy solutions.



MICROGRIDS POLICY PROGRESS IN THE STATES

NRRI's primary mission is to serve state utility regulators by producing and disseminating relevant, high-quality research that provides the analytical framework and practical tools necessary



2025 , SEPA

SEPA Microgrids Industry Update: RE+ Microgrids 2025. This briefing summarizes insights from that workshop on advancing microgrid deployment across the United States.



[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



Microsoft Word

Think Microgrid has prepared this initial analytic framework and assessment of state microgrid activities to provide a foundation for state-specific conversations and to share information across jurisdictional

US Microgrid Market Analysis

The research encompasses 21 states and territories, revealing significant variations in how jurisdictions approach microgrid policy development and the resulting impact on deployment success rates.



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