

Policies for Microgrid Implementation

What policies have been implemented to promote the development and adoption of microgrids?

Several countries have implemented policies to promote the development and adoption of microgrids. In the United States, the Federal Energy Regulatory Commission (FERC) has implemented Order-2222, establishing rules enabling microgrids to participate in wholesale energy markets.

Why are regulatory and policy frameworks important for microgrids?

Regulatory and policy frameworks are crucial in facilitating the growth and acceptance of microgrids. However, several challenges related to these frameworks need to be addressed. One of the primary issues is the variation in regulations that govern microgrids across different countries and states.

How does government support microgrids?

Support for microgrids comes from research and development (R&D) programs at federal and state levels, software and tools, grants and funding support to incentivize demonstration projects, and tax and financial incentives for the installation of distributed energy [2, 3, 6, 126].

What is a microgrid strategy?

The Strategy development process began with microgrid experts deliberating on areas the Strategy should focus on for impactful results in key metrics, such as reliability, resilience, decarbonization, and affordability, in the next five to ten years.

Can a microgrid be integrated with a power and quality management system?

Microgrids may also need support for other components such as energy control and management systems. The power and quality management system's cost of Am Steinweg microgrid (Germany) must be lowered so that its large-scale integration may be feasible. (Soshinskaya et al., 2014).

What drives microgrid development?

The driving forces in microgrid development at the state and local levels include renewable energy requirements as reflected in renewable portfolio standards (RPS) in 29 states and Washington, DC; renewable portfolio goals in eight states; and increasing concerns regarding power system resilience due to growing extreme climate events [38, 39, 40].

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