



Microgrid Demonstration Project Development Plan

What is the microgrid initiative?

The microgrid initiative satisfies the first goal of dynamic optimization of distribution grid operations as well as an emphasis on distribution automation. Toward this end, the initiative has established its 2020 microgrid performance targets on costs, reliability, system energy efficiencies, and emissions. 2

What is a microgrid project?

The primary goal for microgrid projects is to increase the energy resilience and enhance the ability to serve an installation's electrical loads during a contingency situation.

What is a microgrid report?

This report provides (1) an overview of the microgrid planning, assessment, and design process for DoD installations and (2) is a resource for energy managers, policymakers, contractors, and other stakeholders involved in microgrid projects.

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].

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].

How to develop a microgrid project team?

When developing a project team, it is also essential to define key aspects of the microgrid analysis such as scope, schedule, budget, roles, and responsibilities. Once the key members of the project team have been determined and the key aspects of the study established, the team can begin with the design analysis process.

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