

Microgrid Demonstration Case

How many microgrid cases are there?

Thirteen cases were chosen based on publicly available information to illustrate the various types of elements, configurations, and levels of ownership. Demonstration cases were included to emphasize challenges that microgrids are still experiencing and lessons learned from those pilots.

What are the value propositions of microgrid business models?

Analysis of the case studies shows that microgrid business models are still diverse and offer numerous value propositions to hosts. California projects report value propositions of renewable energy integration, resiliency, bill and demand charge savings, and a reduction in carbon footprint.

Are microgrids cost-competitive?

Moreover, although many microgrid technologies have become cost-competitive, the case studies indicate that high investment costs are still a major challenge requiring more financial support until technological durability and efficiency improve.

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 , , .

What are the limitations of microgrid research?

However, this research also has its limitations. Microgrid cases were chosen based on the availability of public information and a variety of geographic location to represent a global sample. It would have been ideal to have at least one microgrid case from each continent, as well as from developed and developing areas.

What should the microgrid do in case of an emergency?

In case of emergency, such as a blackout condition, the microgrid should also be able to disconnect from the local power grid and provide all needed services in island mode. Table 7 indicates that the proposed model succeeds in this respect.

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