

Micro thoughts on the State Grid

Where can electrical utilities test microgrid concepts?

Electrical utilities have begun testing microgrid concepts in laboratory-type settings. One example is Duke Energy, which maintains two test microgrid facilities: one in Gaston County, North Carolina, and one in Charlotte, North Carolina.

How does DOE work in microgrid systems for isolated communities & critical infrastructure?

DOE's work in microgrid systems for isolated communities and for critical infrastructure draws on significant collaboration, and ranges from microgrid research and development (R&D) to technical assistance in applying emerging microgrid tools.

Does the US have a role in developing remote microgrids?

The United States Agency for International Development has also taken advantage of DOE-developed expertise in their remote microgrid work in Africa¹, Haiti², and other rural and remote communities, which has provided valuable insight on technical, regulatory, and procedural rollout of microgrids in the United States.

Does Portland have a microgrid project?

With this view, some utilities in the state have initiated pilot and/or R&D microgrid projects in different areas (Interviews O8, O9), even though Portland General Electric's Pacific Northwest Smart Grid Demonstration Project seems to be the only one that is somewhat operational at this time.

Why are microgrids not working in Oregon?

There are several factors that have allowed microgrids to make their space in the centralized electricity regimes in New York and California but not in Oregon. First, New York and California have experienced several extreme weather events and blackouts that have exposed weaknesses in the electric power sector in the recent past.

Is a niche microgrid market a socio-technical transition?

The analysis illustrates that in all three states under examination, the landscape, regime and niche level changes taking place are indicators of what seems to be the early stages of a niche microgrid market that is but one element of a larger socio-technical regime transition being prompted by exogenous disruptions to the electric power system.

The reliability and resilience of the United States electric grid is a paramount concern for state and federal policymakers and regulators. ... to act as a "micro-utility" in building and operating microgrids to serve multiple private customers ...

The nation's electric grid is a highly interconnected system: impacts to the grid in one location can effect



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communities far away. According to the latest National Climate Assessment, climate-related impacts increase risks ...

Several states in the United States have evaluated microgrids in the context of the current legal and regulatory framework pertaining to electricity generation, transmission, ...

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Can I Use Hydro-Power for a Grid Connected System? In order to use a micro-hydro system with a grid-connected home you will need to install a grid-tie inverter, which allows your generator ...

Microgrids are combinations of generation, storage, load management, and advanced controls, representing novel areas for state PUCs to regulate. A paramount consideration for PUCs is ...

respect to the grid. A microgrid can connect and disconnect from the grid to enable it to operate in both grid-connected or island-mode."1 Many other organizations define microgrids with very ...

electrification approaches based solely on hub-and-spoke main-grid extension. In this evolution, mini-grids ... schools, health clinics, micro-enterprises and agricultural production. With USD ...

The operating modes of microgrids are known and defined as follows 104, 105: grid-connected, transited, or island, and reconnection modes, which allow a microgrid to increase the reliability ...

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