Microgrid group decision variables

Microgrids (MGs) are essential for interfacing the major portion of renewable energy sources and decision-making regarding the control and operation modes. Recent MG research ...

NLR develops and evaluates microgrid controls at multiple time scales. Our researchers evaluate in-house-developed controls and partner-developed microgrid components using software ...

To achieve the goals of this paper, it first presents an overview of microgrid concepts and examples of real microgrids that are operating in the United States. It then discusses the different objectives that ...

This paper develops a decision support artifact in the form of a decision tree for recommending the most suitable microgrid design for a project. A multi-step design science-oriented ...

Resilience, efficiency, sustainability, flexibility, security, and reliability are key drivers for microgrid developments. These factors motivate the need for integrated models and tools for microgrid ...

In response to the increasing global energy demand and the need to reduce fossil fuel dependence, multi-energy microgrids (ME-MGs) have emerged as a sustainable and efficient ...

This paper proposes a robust optimization framework for the operation of a combined heat and power (CHP)-based microgrid (MG) under renewable energy source (RES) uncertainties, using ...

This study investigated multi-objective decision-making of diesel electricity generation, CF, and EAC for an island microgrid located on Appledore Island, Maine.

This paper explores factors that shape decisions about and modes of adoption for community microgrids, including the anchoring resource, user scale and temporal attributes, as well ...

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