

What happens if a microgrid is grid-connected?

If the microgrid is grid-connected (i.e., connected to the main electric grid), then the community can draw power from the main electric grid to supplement its own generation as needed or sell power back to the main electric grid when it is generating excess power.

Is there a capacity planning solution for grid-connected microgrid based on scenario generation?

This paper presented an optimal capacity planning solution for grid-connected microgrid based on scenario generation considering multi-dimensional uncertainties. The efficient DCGAN based scenario generation method is developed to describe the uncertain behaviors of renewable power generation.

Are DC microgrids planning operation and control?

A detailed review of the planning, operation, and control of DC microgrids is missing in the existing literature. Thus, this article documents developments in the planning, operation, and control of DC microgrids covered in research in the past 15 years. DC microgrid planning, operation, and control challenges and opportunities are discussed.

What is the optimal capacity configuration model for a grid-connected microgrid?

An optimal capacity configuration model of the grid-connected microgrid is proposed, which comprehensively considers economic cost, renewable energy utilization efficiency and carbon emissions. Through the combination with the previous work, it provides a new solution to the problem of microgrid planning.

Is microgrid a good model for capacity planning?

An optimal grid-connected microgrid capacity configuration model is proposed. A case study is carried out to validate the proposed capacity planning solution. Microgrid is considered an efficient paradigm for managing the massive number of distributed renewable generation and storage facilities.

Do DC microgrids need coordination?

The optimal planning of DC microgrids has an impact on operation and control algorithms; thus, coordination among them is required. A detailed review of the planning, operation, and control of DC microgrids is missing in the existing literature.

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