

An optimization model and an algorithm for capacity planning and operations of microgrids that include security and other practical modeling features like ac power flow ...

Accordingly, this study proposes a novel microgrid planning model to site and size candidate sets of DERs and distribution lines in close coordination, which is mathematically equivalent to a ...

The optimal microgrid planning problem has been investigated through simulation tools such as HOMER and WebOpt [16,17], or through numerical analysis by considering uncertainties in ...

With the high penetrations of diverse renewable energy resources and energy storage devices, the optimal planning of microgrids based on selected representative operating periods (ROPs) ...

A microgrid planning model for determining the optimal size and the generation mix of distributed energy resources (DERs) as well as the microgrid type, i.e., ac or dc, is presented. Expand 375

The development of Xiong'an New Area has shifted from the initial planning and construction stage to focus on high-quality construction, high-level management and the high-quality transfer of the ...

Xiong Wu, Wencheng Zhao, Xiuli Wang, Haoyu Li ... Therefore the reliability criterion can be safely integrated into the microgrid planning model as an MILP problem which can be solved ...

Xiong WU | Cited by 222 | of Xi'an Jiaotong University, Xi'an (XJTU) | Read 12 publications | Contact Xiong WU ... Microgrid Planning Considering the Supply Adequacy of Critical Loads under the ...

etc.; microgrids supporting local loads, to providing grid services and participating in markets. This white paper focuses on tools that support design, planning and operation of microgrids (or ...

A microgrid can be partitioned into several autonomous sub-microgrids in case of multiple faults in natural disasters. How to guarantee the supply adequacy of critical loads in ...

Xiong Wu's research while affiliated with Beijing Jiaotong University and other places. ... Quashie et al. [20] formulated a bi-level program for planning microgrid power and reserving capacity

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