

This white paper focuses on tools that support design, planning and operation of microgrids (or aggregations of microgrids) for multiple needs and stakeholders (e.g., utilities, developers, ...

The Smart Energy City project will see the design, deployment and operation of a microgrid at Monash's Clayton campus. This will allow for real world challenges to be unearthed, and learnings shared so ...

This research conducts a comprehensive examination of foundational microgrid systems through three diverse case studies, emphasizing small-scale microgrids with varying energy sources and control ...

The review encompasses the literature from leading energy research institutions, regulatory agencies, and case studies of implemented smart microgrids in cities such as San Diego, ...

This research report examines the design principles and control methods of new microgrids, taking into account their ability to maximize energy delivery, cut down on emissions of CO₂, and increase the ...

This paper presents the design of a smart microgrid with small-scale hydro generation.

This paper presents a review of the microgrid concept, classification and control strategies. Besides, various prospective issues and challenges of microgrid implementation are ...

This paper synthesizes recent advancements and applications of DRL algorithms such as Deep Q-Networks (DQN), Deep Deterministic Policy Gradient (DDPG), and Proximal Policy Optimization ...

This paper presents the design of a smart microgrid with small-scale hydro generation. It is a practical case study with the integration of two grid-connected pico-hydro turbines: a low-head propeller ...

The outcomes of case studies demonstrate that there are several ways to deploy microgrid management systems, depending on the system's size, grid connectivity, technology, ...

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