

The application of a virtual synchronous generator (VSG) to provide virtual inertia in isolated microgrids has emerged as a promising control strategy for converter-interfaced renewable ...

US Special Envoy Tom Barrack called on the Lebanese government on Wednesday to take action to bring weapons under state control. "A decision is required from the cabinet to confine ...

A comparative analysis of the classical PI and sliding mode control-based designs is conducted under various grid conditions, such as cold ironing mode of the shipboard microgrid, and load variations, considering both the AC and DC loads.

A microgrid is a localized energy system that can operate independently or in tandem with the utility grid. It intelligently manages multiple energy sources to deliver reliable cost-effective power.

Model predictive control (MPC) has emerged as a powerful control strategy for microgrids due to its ability to handle complex dynamics and optimization problems. This study aims to conduct ...

Island microgrids are essential for the exploitation and utilization of offshore renewable energy resources. However, voltage regulation and accurate reactive power sharing remain significant ...

Abstract The interlinking converter, an important device in a hybrid AC-DC microgrid, undertakes the task of power distribution between the AC sub-microgrid and DC sub-microgrid. To ...

This trend will likely lead to more specialized software solutions tailored to specific applications and microgrid configurations. Finally, the increasing use of AI and machine learning in ...

This study enhances the buck-boost modular converter topology, also known as the Y-voltage source inverter, by implementing a control strategy that simultaneously manages active power ...

To ensure the safe and stable operation of an islanded microgrid (MG) system, it is imperative to evaluate the impact of multiple communication constraints. This study addresses the ...

The centralized control is one in which central system manages all operations making it efficient but vulnerable to single-point failures [34 - 37]. In decentralized control, each component is ...

He stressed that Washington stands ready to support Lebanon if its leaders commit to enforcing the state's exclusive right to bear arms, emphasizing that "only the Lebanese Armed Forces ...

Lebanon microgrid control

The multiagent systems are one of the recent advanced strategies that use multiple autonomous agents, and it is often integrated with other control techniques to ensure optimal performance ...

However, in the context of microgrid, the misleading information spread by honeypots will also impact the system performance. This paper proposes an attack-resilient distributed control for ...



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