

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 ...

Nepal has officially ended French security firm IDEMIA's 16-year control over its passport system, awarding a landmark contract to two German companies after a protracted legal and ...

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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 ...

KATHMANDU - A passenger plane crash in Nepal in 2024 that killed 18 people was caused by faulty information about the aircraft's take-off speed in the flight documentation, a report issued ...

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 ...

The control system uses local controllers for each device in the cluster and a dynamic centralized energy management system to coordinate optimally energy dispatch and distribution among ...

This paper gives a thorough overview of the technological advancements in microgrid systems, focusing on the Internet of Things (IoT), predictive analytics, real-time monitoring, ...

With the FIFA control on funding now officially lifted, the All Nepal Football Association (ANFA) finally has room to breathe. Financial flexibility has returned -- and so has the opportunity to ...

Direct current microgrids are widely regarded as a promising clean power system technique. However, the microgrid stability is challenged by routine operations and unplanned faults, ...

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 ...

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.



Nepal microgrid control

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 ...



Nepal microgrid control

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