Microgrid current sharing

To overcome this issue, an enhanced power sharing control method is proposed in this paper to address load sharing in parallel-connected DG units ...

While conventional methods focus on proportional power-sharing based on nominal capacities, they lack the flexibility required for dynamic ...

By taking electrical network into consideration, this paper analyzes the relation between voltage regulation and current sharing. Based on this relationship, a novel control scheme, which ...

This paper proposes a novel robust control algorithm to obtain simultaneously proportional current sharing among the DGUs and a form of voltage regulation in the DC power network, where the ...

Abstract: In multi-bus DC microgrids, where each bus connects a cluster of distributed generators (DGs), the control objective is to ensure voltage regulation and current sharing among ...

The algorithm aims to enhance both bus voltage regulation and load sharing performance within DCMGs.

This work introduces the adaptive distributed linear secondary control strategy that enhances the accuracy of current sharing in DC microgrid. The ...

Energy sharing in microgrids can benefit all parties involved -- including utilities -- but establishing successful sharing projects can be difficult because of ...

It is well known that accurate current sharing and voltage regulation are both important, yet conflicting control objectives in multi-bus DC microgrids. In this paper a distributed control ...

This paper proposes an event-triggered control strategy for microgrids to ensure precise voltage regulation and current sharing through fully distributed control.

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