

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 ...

In the present paper, we focus on two main control objectives in the operation of DC microgrids, namely voltage regulation and load sharing. Voltage regulation seeks to maintain the bus ...

This paper proposed a strategy for controlling the DC bus voltage using a sliding mode controller. The proposed controller is tested on a DC microgrid incorporating a PV system, Battery ...

Technical issues related to the voltage control and power management of grid-connected and islanded DC microgrids are discussed. Key research gaps are identified, which could be filled by ...

This study investigates the DC microgrid system and pro-poses an integrated bus voltage control method, which includes an IAVIC, a oscillation suppressor, and a voltage compensator, to address ...

This paper proposes a control method for the voltage stability of DC microgrid buses based on a disturbance estimation feedforward compensation strategy, aiming to enhance the ...

This paper examines the control strategy of DC microgrids in islanding mode, applying the parameter adaptive VDCM control strategy to a bidirectional DC/DC converter linking a hybrid ES ...

This paper provides an extensive review on hierarchical control structures of the DC microgrid and DC bus voltage control. By reviewing the existing literatures, the primary, secondary, ...

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