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Title: Impact of three-phase imbalance on microgrid

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In this paper, the problem of three-phase load imbalance in the distribution network is analyzed, and the calculation method of the three-phase imbalance in the distribution network is ...

Abstract: Most distributed generation sources (DGs) are connected to the microgrid in the form of power electronics. The line parameters and loads are asymmetrical, and single phase of ...

In this paper, a particular structure of a series microgrid is applied to the cluster system, and a three-phase unbalanced control strategy based on model predictive control for the cluster ...

This study provides a microgrid formation plan that adopts a three-phase network model to represent unbalanced distribution networks. The problem formulation has a quadratic objective function with ...

In order to maintain the stable operation of the SST (Solid State Transformer) under passive microgrid model when three-phase unbalances occur in the microgrid, the paper came up a novel balance ...

This study comprehensively reviews, summarises, and classifies the various strategies of the unbalance mitigation techniques for the islanded and grid-connected modes of operation for three-phase MGs ...

The interaction between MG and the unbalance loads or DGs will degrades the control performance of interfaced inverter in MG and dramatically leads to MG voltage unbalance. In this ...

To address this issue, this paper proposes an active-reactive power coordinated optimization model for distribution network-microgrid clusters ...

When delivering unbalanced three-phase load currents, the non-zero internal impedance of an IBR leads to unbalanced voltages at the point of common coupling (PCC).



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