

This study presents an enhanced control scheme based on the Luenberger observer technique to achieve accurate load power sharing in an islanded DC microgrid, accounting for the ...

A control method based on line impedance compensation for low-voltage hybrid microgrids is proposed in this manuscript. The proposed method can detect line resistance and ...

In practice, however, power line communication (PLC) is complicated by both known and variable difficulties related to background noise, signal attenuation, and unknown line impedances.

This paper proposes an accurate power sharing control strategy considering both unmatched line impedance and local load for parallel-connected DGs in islanded DC MG by using ...

In this paper, the comparison of basic droop control and virtual impedance methods is revisited from a new analogy perspective.

In the present article, a protection scheme based on impedance is suggested for fault detection in LV and MV overhead and cable distribution lines in both grid-connected and islanded ...

In this article, a method is proposed to increase the accuracy of reactive power-sharing for parallel-connected inverters in Microgrid, this method is done by automatically adjusting the ...

This paper proposes an adaptive virtual impedance control strategy that integrates a fuzzy PID controller with the Improved Whale Optimization Algorithm (IWOA).

This work describes and evaluates by simulation a method of parametric estimation of the line impedance that connects generators and loads to a common connection point in an AC microgrid. ...

In this paper, based on the above analysis, the fuzzy adaptive virtual impedance controller is proposed for reactive power sharing of microgrid and circulating current between inverters caused ...



# Microgrid line impedance

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