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Title: Microgrid based on impedance characteristics

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A capable and cost-effective protection scheme is essential for the reliable operation of a microgrid. Conventional impedance measurement-based protection is hindered by shorter line ...

Microgrids are parts of the distribution network that can operate either in parallel with the main power system or, when required, as controlled islands [1]. Their structure differs markedly from conventional ...

To address this issue, we propose a feed-forward compensation control method based on impedance shaping. This involves designing a transfer function within the current feed-forward loop ...

To solve this problem, an improved sag control strategy based on adaptive virtual impedance is proposed in this paper.

In this paper, an islanding detection method based on harmonic impedance measurement for low-voltage microgrids is proposed to address the limitations of the traditional ...

This paper shows measurements and comparisons of inrush currents for a variety of grid impedance configurations as well as the effects of switching even low wattage power electronic devices. ...

An adaptive virtual complex impedance-based power-sharing control scheme is proposed in this paper. The scheme adaptively tunes the virtual resistance and virtual inductance to achieve ...

The objective of this study is to oversee the operation of several converter-based distributed generations in order to assure efficient power distribution inside an island-microgrid (MG).

First, three stability criteria based on impedance parameters are presented. Then, we present a new impedance measurement method for microgrids based on square wave current injection.

The resulting approach enables the detection of high-impedance faults as outliers from the normal operating states of microgrid lines with passive ...

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