Title: Pulse-controlled microgrid
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However, the periodically time-varying characteristics of pulse loads make the stability analysis and control of DC microgrids containing pulse loads particularly challenging.

This paper presents a systematic literature review encompassing recent advancements in MG technology. It delves into MG architecture, diverse control objectives, associated ...

Microgrid Controls NLR develops and evaluates microgrid controls at multiple time scales. Our researchers evaluate in-house-developed controls and partner-developed microgrid ...

This article offers a design of simultaneous reactive-active power control, total harmonic distortion reduction, and voltage unbalance compensation at the connection point of an industrial ...

Controlled energy storage systems are a key solution to address the challenges associated with RESs. Their primary function in modern power systems is to balance the power ...

Abstract: DC standalone microgrids are emerging as an effective solution for integrating renewable energy sources (RESs) and accommodating the widespread use of DC loads and energy ...

In recent years, pulsed power systems (PPSs) have been widely deployed in defense and military applications, with most featuring high-power, high-repetition-rate characteristics such as airborne ...

This paper proposes a novel model predictive controller to minimise the effect of unknown pulsed loads on the DC microgrid (MG) side of shipboards. It is assumed that the level of the pulsed ...

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