

In order to deal with these dynamic changes, this paper addresses an adaptive central microgrid controller-based protection and relay coordination scheme, which revises the relay settings ...

Coordination of relays is a critical aspect of the protection system. This paper outlines the significant challenges related to relay coordination in MGs, such as substantial variations in short ...

In order to tackle those issues, this paper developed an adaptive protection coordination scheme using numerical overcurrent relays and support vector machines with a particle swarm ...

Engineers and scholars have proposed different non-standard methods to increase the power protection system and ensure the highly selectivity performance.

This paper addresses the protection coordination problem of microgrids combining unsupervised learning techniques, metaheuristic optimization and non-standard ...

This methodology involves coordination between the designs of converter controllers and protection criteria, but these two topics have hardly ever been comprehensively and systematically ...

Hence, this paper introduces an adaptive protection strategy utilizing a novel pickup scaling coefficient, which adjusts relay settings based on local voltage and current measurements.

A protection coordination problem is also solved to obtain a single set of optimal settings for these DOCRs, which are feasible for various operating scenarios, including GCM, IM, line, and ...

This report identifies research and development (R& D) areas targeting advancement of microgrid protection and control in an increasingly complex future of microgrids.

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