GPE Utility Storage

DC Microgrid Hybrid Energy Storage

Overview

Based on the analysis of the energy storage requirements for the stable operation of the DC microgrid, battery–supercapacitor cascade approach is adopted to form hybrid energy storage system, in a single hybrid energy storage subsystem for battery and supercapacitor and in the microgrid system of different hybrid energy storage subsystem, respectively, and puts forward the corresponding power allocation method to realize the smooth control of the battery current, to reduce the battery charge and discharge times, to prolong the service life of battery and to improve the running stability of the microgrid.

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