Event-triggered microgrid patent

This paper addresses the escalating need for low-carbon solutions and discusses the integrated control system for the electric-hydrogen DC microgrids. A multi-time scale control mechanism for the DC ...

The technology described herein can be used in many different applications, including, for example mining, utility power, oilfield applications, industrial application, and any application that...

Description technical field [0001] The invention relates to a limited-time secondary frequency regulation control method for a microgrid based on an event trigger mechanism.

In this paper, an event-triggered predictive function control (ET-PFC) is proposed for power management of DCMGCs, maintaining excellent control performance of PFC algorithm while ...

Local-level event-triggered exponential reaching law based terminal sliding mode control is proposed. The proposed control structure promises rigid DC bus voltage and low-carbon operation. ...

Furthermore, an event-triggered control mechanism is introduced to reduce considerable control efforts while guaranteeing system robustness under various disturbances.

This paper presents a fully distributed adaptive dynamic event-triggered control (FDOAD-ETC) strategy for islanded AC microgrids (MGs). The proposed approach restores frequency and ...

This article proposes an event-triggered model predictive control (ET-MPC) method for inverters to connect dc microgrids with battery-supercapacitor hybrid ener

In this research, we explore a novel control structure for microgrids that enhances the two-level hierarchical system through a hybrid GNNs and LSTM-based learning structure with Event ...

The invention relates to the technical field of microgrid control, in particular to a microgrid control method and system under an event-triggered directed communication topology.

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