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Abstract: In this paper, we use an evolutionary swarm intelligence approach to build an automatic electric dispatch controller for an offshore wind power plant (WPP).

This paper proposes a hybrid-driven active power control strategy for large-scale wind farm (WF) that integrates data-driven and model-driven approaches to optimize power ...

Inverter-based intermittent resources like wind and solar power are quickly adjustable only to reduce their output (curtailment) relative to their production limit at any given time, which is ...

Here we considered the fast and localized execution issue of the power optimal dispatch problems. A completely decentralized dynamic system was designed to optimize ...

We propose an optimal dispatch WPP controller, in which appropriate parameter settings of the algorithm are obtained automatically over time so that its performance is ...

Simulation results show that the proposed dispatch model can effectively strengthen wind power absorption, ensure secure operation, and improve the robustness of ...

In this paper, a novel hierarchical model predictive control (HMPC) strategy based on dynamic active power dispatch is proposed to improve wind power schedule and increase ...

OverviewStartup timeBenefitsAlternative classificationSources

Leveraging this surrogate model, a short-term WPP dispatch framework is developed, ensuring both precise dispatch command tracking and the preservation of FRS capabilities. Additionally, ...

Firstly, this paper introduces the composition and function of each unit under the research framework and establishes a joint dispatch model for wind, solar, hydro, and thermal ...

This paper proposes an active and reactive power dispatch method for a wind farms (WF) considering the real-time service quality and the available power to achieve the ...

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