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Title: Wind-solar power generation complementary system control

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Through reasonable design, the wind-solar complementary system can significantly improve the stability and reliability of power generation, reduce the capacity demand of the ...

Development of an innovative hybrid solar and wind energy system, distinct in its use of MPC combined with PSO. This approach is novel in its ability to address the ...

This study constructed a multi-energy complementary wind-solar-hydropower system model to optimize the capacity configuration of wind, solar, and hydropower, and ...

It adopts advanced MPPT power tracking technology to maximize the utilization of wind power and solar energy and also realizes the complementary and coordinated control of ...

To address challenges such as consumption difficulties, renewable energy curtailment, and high carbon emissions associated with large-scale wind and solar power

To achieve the stable operation and enhance the economic efficiency, it is essential to coordinate the capacity configuration optimization and control strategy of the multi ...

In order to ensure the stable operation of the system, an energy storage complementary control method for wind-solar storage combined power generation system ...

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Based on the law of energy conservation, the energetic matching algorithm was proposed which forms the

foundation of optimal configuration of system. Finally, the intelligent control and on ...

This paper proposes constructing a multi-energy complementary power generation system integrating hydropower, wind, and solar energy. Considering capacity configuration and ...

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