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Title: Wind and solar intelligent complementary power system

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Numerous studies have shown that the combination of sources with complementary characteristics could make a significant contribution to mitigating the variability of energy ...

We optimized the solar system using the conventional Perturb and Observe (P & O) method and the metaheuristic Particle Swarm ...

A new intelligent prediction system is proposed, which can perform high-precision adaptive prediction of wind and PV power at the same time with high generalization ability, and ...

Wind-solar hybrid systems, renewable energy technologies that combine wind and solar energy, are particularly important because they improve the stability and efficiency of energy supply.

Through rigorous MATLAB simulations, the system's robust response to changing solar irradiance and wind velocities has been ...

The rapid development of wind and solar power, with their randomness and uncertainty, reduces system stability. Optimizing schedules of complementary systems ca

Through rigorous MATLAB simulations, the system's robust response to changing solar irradiance and wind velocities has been demonstrated. The key findings confirm the ...

Based on the intelligent control research of new energy wind-solar hybrid charging and power consumption system, this study solves the problems of active power, voltage and frequency ...

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metaheuristic Particle Swarm Optimization (PSO) technique. Our primary ...

The wind-solar-hydro-storage multi-energy complementary system is an intelligent coordinated energy supply system that integrates multiple energy forms such as wind energy, ...

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 ...

The intermittency, randomness and volatility of wind power and photovoltaic power generation bring trouble to power system planning. The capacity configuration.

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