

Multi-energy complementary wind and solar integrated system

Abstract An integrated renewable energy supply system is designed and proposed to effectively address high building energy consumption in Zhengzhou, China. This system ...

First, with the objective of maximizing power generation benefit from the multi-energy complementary system, the Deep Q Network (DQN) method in deep reinforcement ...

The model is solved by ant colony algorithm, and the optimal scheduling of multi-energy complementary integrated energy microgrid with wind energy and solar energy storage is ...

IES (The Integrated Energy System), consisting of distributed wind and solar power generation and multiple types of loads for cooling, heating, and electrical systems, is an ...

The global energy crisis and environmental degradation have become an urgent issue, and it is imperative to develop renewable energy system to promote the transformation of the energy ...

High penetration of renewable energy generation is an important trend in the development of power systems. However, the problem of wind and solar energy curtailment due to their ...

Wind, solar, and other renewable energy sources along with roofs, wastelands, and other spatial resources are abundant in rural areas. This paper presents a rural multi-energy ...

To lessen the effects of adding solar and wind power to the grid, it is crucial to develop more dependable hydropower generation plans, take into account the uncertainty of ...

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, ...

Model construction and solving algorithms are the two main parts of the study [20]. The hydro-wind-solar complementary system typically treats hydropower, wind power, and ...

Abstract The coordinated scheduling of hydropower, wind and PV power plays an important role in promoting the large-scale development of new energy. Nevertheless, the ...



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