

Special Issue

Evaluation, Decision-Making and Market Simulation of a New Type of Power System

Message from the Guest Editors

Under the strategy of low-carbon energy transition, the integration of renewable energy sources, advancements in technology, and dynamic changes in the market are driving major changes in power systems. To address the challenges of safety, stability, and economic operation brought about by this transformation into a new type of power system, it is important to start from the aspects of evaluating technical adaptability, optimizing system structure and state, and the design of market mechanisms. This Special Issue seeks high-quality works focusing on the latest novel advances in the evaluation of system performance, system optimization, and in the market mechanism for a new type of power system. Topics of interest include, but are not limited to, the following:

- Performance evaluation and selection of new technologies in power systems;
- Investment and planning decision of novel power engineering projects;
- Optimization of carbon flow in power systems;
- Electricity-carbon market design and simulation;
- Power system safety and resilience;
- The management of energy and power enterprises.

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