Special Issue

Operation, Control, and Planning of New Power Systems

Message from the Guest Editors

To realize the strategic goals of "Carbon Peak and Carbon Neutrality," constructing a new power system with renewable energy as its main component has become the core direction of China's energy transition. The system is undergoing a dual transformation characterized by a **high penetration of renewable energy** and a **high proportion of power electronic devices**, leading to profound changes in its dynamic characteristics, operational patterns, and stability mechanisms. Concurrently, as a critical link for resource allocation, the design of electricity market mechanisms also needs to be deeply aligned with the evolution of this physical system. To explore new theories, methods, and technologies to solve the core challenges in operation control, coordinated planning, and market mechanism design, this journal is launching a Special Issue on "Operation, Control, and Planning of New Power Systems." This Issue aims to gather cutting-edge research findings and promote academic progress and engineering practice in the field.

Guest Editors

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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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