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Electricity Market Modeling Trends in Power Systems

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Message from the Guest Editors

In recent years, the product categories in the electricity market have become increasingly diverse, including active power, reactive power, spinning reserve, frequency regulation capacity and frequency regulation mileage, etc. The fields involved in the electricity market are also gradually expanding, including multiple fields such as electricity, heating, natural gas and transportation. Therefore, it is necessary to analyse the electricity market modelling trends in power systems and develop relevant technologies to promote the development of the modern electricity market.

This Special Issue will curate novel advances in research that either use modelling, planning and optimization as essential tools to design electricity market mechanisms or analyse the development trends in power systems, including the following topics:

1. Review of the electricity market modelling trends;
2. Bidding and operation strategy of the market participants;
3. Carbon markets;
4. The market mechanism of the integrated energy system;
5. Market clearing methods;
6. Energy storage in the electricity market;
7. Virtual power plants and their business model;
8. Other topics relevant to the electricity market.



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Special Issue



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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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