

Special Issue

Analysis of Electricity Distribution Network and Electricity Markets

Message from the Guest Editors

Electricity networks have been undergoing a radical transition from mono-directional to bi-directional systems with the development of new technologies and structures. Meanwhile, the increasing penetration of distributed energy resources (DERs) into distribution networks has significantly changed the energy trading pattern in traditional electricity markets. Through effective energy trading, all participants in distribution networks can obtain much higher flexibility, reliability, and energy utilization efficiency. In this regard, it is urgent and worthwhile to conduct a comprehensive analysis of the new electricity distribution networks and markets for higher operation flexibility and social welfare. However, there are huge challenges to designing efficient and appropriate market structures with increasing penetration levels of DERs, necessitating innovative ideas and research in this promising direction. This Special Issue invites authors from academic, industrial, policy-making and consultancy backgrounds to present and develop analyses, solutions, and technologies in the field of electricity distribution networks and electricity markets.

Guest Editors

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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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