Special Issue

Distributed Energy Resources in Transactive Energy Systems

Message from the Guest Editor

Dear colleagues, This introduces the need for innovative methodologies to support a sustainable transaction model, an operation scheme for system reliability, regulation preventing conflicts of interest between stakeholders, and so on. In addition, it is also urgent to discuss supporting technologies, such as blockchains, power routing, smart metering, and digital twins, to realize transactive energy systems with DERs. This Special Issue calls for original research articles, reviews, and case studies contributing to theories, frameworks, designing mechanisms, regulation, and supporting technologies for DERs in transactive energy systems. Topics to be covered in this Special Issue include, but are not limited to, the following:

- Distributed generation, renewable energy resources, smart grids, and microgrids
- Energy market designs, energy market mechanisms, energy pricing, and market regulation
- Transactive energy, peer-to-peer energy trading, virtual power plants, demand-side management, and incentive mechanisms
- Optimal market strategies and agent-based models
- Blockchains, power routing, and cybersecurity

Guest Editor

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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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