Special Issue

Smart Management of Distributed Energy Resources

Message from the Guest Editor

In the future, distribution networks are facing significant challenges to accommodate the increasing number of distributed energy resources (DER). In this Special Issue, we invite original and unpublished research work in areas including (but not limited to)

- Distributed energy resources as flexibility service providers
- Aggregators, and virtual power plants to facilitate DER integration
- Forecasting distributed energy resources
- Solutions to use DER for resolving transmission constraints (active and reactive power services)
- Advanced data and intelligent control systems for a high level of DER integration
- The demonstration of intelligent control systems (centralised, decentralised, and hierarchical) for DER integration
- Electric vehicles and vehicle to grid to provide flexibility services
- DER trading for ancillary services and balancing markets
- Blockchain and distributed ledger solutions for electricity market design
- Applications of IoT to combine edge and cloud resources, and local forecast of DER
- Improving visibility beyond the meter of energy production, consumption and storage
- Multi agent systems for DER management

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2020)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/21022

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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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