

Special Issue

Reliability Evaluation of Integrated Electricity and Natural Gas Systems

Message from the Guest Editor

The interdependence between electricity and natural gas systems has been intensified over the years. Reliability evaluation is the foundation of system planning and operation. Low carbon operation of Integrated Electricity and Natural Gas Systems has attracted the attention of many researchers, and there have been many emerging techniques. This Special Issue will deal with novel optimization and reliability evaluation techniques for integrated electricity and natural gas systems. Topics of interest for publication include, but are not limited to:

- Low carbon operation of integrated electricity and natural gas systems;
- Application of data-driven and artificial intelligence for reliability evaluation;
- Accommodation of renewable energy with integrated energy systems;
- Power-to-gas and energy storage;
- Integrated electricity and natural gas demand response;
- Expansion planning of integrated energy systems;
- Integrated electricity and natural gas distribution systems;
- Uncertainty modeling of integrated energy systems.

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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