Special Issue

Research on Operation Optimization of Integrated Energy Systems

Message from the Guest Editor

This Special Issue will showcase the latest research advancements in operation optimization for integrated energy systems. We will gather cutting-edge contributions that address the multifaceted challenges associated with optimizing the performance, efficiency, and sustainability of IESs in various contexts, including urban environments, industrial applications, and renewable energy integration. Potential paper topics include, but are not limited to, the following:

- Optimization algorithms and methodologies for IES operation;
- Integration of renewable energy sources into IESs;
- Demand-side management and its impact on IES optimization;
- Energy storage solutions within IESs and their operational strategies;
- Economic dispatch and unit commitment in IESs;
- Multi-energy flow modeling and optimization;
- Decentralized and distributed optimization approaches for IES;
- Uncertainty management in IES operation optimization;
- Case studies of IESs in urban, industrial, or rural settings;
- Smart grids and their interaction with IES;
- Artificial intelligence and machine learning applications in IES optimization;

Guest Editor

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About the Journal

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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