Special Issue

Advanced Design and Optimization for Integrated Power and Energy Systems

Message from the Guest Editors

In the context of integrating various energy forms (such as electricity, heat, gas, water, etc.), integrated energy systems have emerged as a crucial pathway for improving energy efficiency and reducing carbon emissions. This Special Issue invites original research articles addressing technical, economic, and policy considerations to enhance the integration of different energy systems. Topics of interest for this Special Issue include, but are not limited to, the following areas:

- Interdependency analysis in multi energy systems.
- Accommodation of renewable energy with integrated energy systems.
- Coordinated scheduling/dispatching of integrated energy systems.
- Coordinated planning of integrated energy systems.
- Uncertainty modeling of integrated energy systems.
- Reliability and risk of integrated energy systems.
- Energy storage and flexible resources.
- Carbon emissions and environmental impact optimization.

Guest Editors

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Deadline for manuscript submissions

closed (20 June 2025)

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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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