Special Issue

Multi-Energy Systems Operation, Economics and Policy to Facilitate Low-Carbon Energy Transition

Message from the Guest Editors

This Special Issue aims to explore the multifaceted challenges and opportunities associated with the design, operation, economics, and policy aspects of multi-energy systems in the context of achieving low-carbon energy goals. Topics of interest include, but are not limited to:

- System design and optimization approaches for integrating multi-energy carriers in low-carbon energy systems.
- Techno-economic analysis of MES for enhanced energy efficiency and reduced carbon emissions.
- Planning and management strategies to ensure the stability, reliability, and resilience of MES.
- Policy frameworks and regulatory mechanisms to support the deployment and integration of low-carbon MES.
- Role of energy markets and transactive energy mechanisms in facilitating the transition to MES.
- Assessment of the environmental and socio-economic impacts of MES in achieving sustainability goals.
- Innovative energy storage technologies and management systems for reliable and flexible multi-energy operations.
- Application of artificial intelligence, machine learning, and data analytics in optimizing MES performance.

Guest Editors

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Deadline for manuscript submissions

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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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