

## Special Issue

# Renewable Energy Power Generation and Power Demand Side Management

### Message from the Guest Editors

With the growing global emphasis on environmental protection and sustainable development, renewable energy power generation technologies have become crucial in mitigating energy crises and reducing greenhouse gas emissions. Concurrently, power demand side management has emerged as an effective means to enhance energy efficiency and optimize resource allocation, playing an increasingly significant role in promoting energy structure transformation and ensuring the safe and stable operation of power grids. We invite scholars, researchers, and practitioners to contribute their insights and findings to this Special Issue, covering a range of topics, including but not limited to the following:

- Renewable energy power generation
- Renewable energy integration and scheduling
- Wind energy
- Solar energy
- Energy storage
- Market trading for renewable energy
- Power demand side management
- Energy consumption scheduling
- Renewable energy and/or load demand forecasting
- Smart homes and cities
- Review articles focusing on renewable energy and/or demand side management

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### Guest Editors

Prof. Dr. Bingtuan Gao

Dr. Xiaofeng Liu

Dr. Lixia Sun

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### Deadline for manuscript submissions

closed (31 March 2025)



## Energies

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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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### Editor-in-Chief

Prof. Dr. Enrico Sciubba

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