

## Special Issue

# Advances in Renewable Energy Systems and Smart Grid Technologies

### Message from the Guest Editor

The fast development of renewable energy sources and their integration into modern smart grids represent both exciting opportunities and significant technical challenges. This Special Issue will cover recent advances in the design, modeling, control, and optimization of renewable energy systems, including solar, wind, hybrid systems, and energy storage technologies. Topics of interest include, but are not limited to, the following:

- Energy management systems for hybrid renewable/storage systems;
- Power electronics and grid integration techniques;
- Smart grid architectures and demand response mechanisms;
- Modeling, simulation, and experimental validation of renewable systems.

All papers contributing new theoretical perspectives, experimental results, and practical applications are warmly welcomed. This Special Issue will be a valuable reference for researchers, engineers, and practitioners committed to the advancement of sustainable energy technologies.

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### Guest Editor

Dr. Salwa Echalih  
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### Deadline for manuscript submissions

closed (12 January 2026)



## 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

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