# Special Issue

# Sustainable Energy Systems: Progress, Challenges and Prospects

## Message from the Guest Editors

The global transition to sustainable energy is one of the most pressing challenges of our time. Driven by the goals of decarbonization, energy security, and technological innovation, sustainable energy systems—including renewable energy generation, energy storage, grid integration, and intelligent energy management—are evolving rapidly.

This Special Issue aims to bring together cutting-edge research and practical insights related to the design, operation, integration, and optimization of sustainable energy systems. We invite contributions that address both technological advances and systemic challenges, offering forward-looking perspectives that can guide future development.

Topics of interest include, but are not limited to, the following:

Renewable energy generation (solar, wind, hydro, geothermal, bioenergy);
Smart grids and grid flexibility;
Energy storage technologies and integration strategies;
Building- and community-level energy systems;
Low-carbon energy transitions and energy policy;
Energy system modeling and scenario analysis;
Energy efficiency and demand-side management;
Carbon neutrality and energy justice;
Emerging technologies and innovative applications.

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## Deadline for manuscript submissions

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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.

## Editor-in-Chief

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