

## Special Issue

# Smart and Sustainable Energy Systems: Optimization, Modeling, and Management for Global Energy Challenges

### Message from the Guest Editors

Achieving sustainable, efficient, and resilient energy systems is one of the most critical challenges of our time. Energy systems today are increasingly complex, integrating diverse technologies, data streams, and decision layers—from strategic design and planning to operation, maintenance, and decommissioning. Enhancing energy efficiency and promoting energy conservation across all phases of the energy system lifecycle is essential for meeting global energy demands while minimizing environmental impacts. This Special Issue aims to bring together state-of-the-art research addressing the modeling, optimization, analysis, and management of energy systems. We encourage submissions that span the full energy lifecycle—including system design, planning, operation, maintenance, and sustainability—with particular emphasis on energy efficiency, reliability, and conservation strategies. We invite interdisciplinary research that combines advanced analytical techniques, engineering practices, and decision-making tools to improve energy system performance and sustainability.

### Guest Editors

Dr. Ahmed Shaban

Dr. Nasr Al-Hinai

Dr. Mahmood Al-Kindi

Dr. Hakan Gultekin

### Deadline for manuscript submissions

24 November 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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### Editor-in-Chief

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