

Special Issue

Hybrid Energy Systems: Integration, Innovations, and Strategies for a Sustainable Future

Message from the Guest Editor

This Special Issue aims to provide a comprehensive overview of recent advances and emerging challenges in hybrid energy systems, covering both technological developments and system-level integration.

Contributions about a wide range of topics are invited, including, but not limited to, the following:

- Hybrid system design, modeling, optimization, and control;
- Integration of energy storage technologies;
- Coupling with hydrogen and thermal systems;
- The role of artificial intelligence and data-driven methods in system operation and planning.

This Special Issue welcomes original research articles, review papers, and case studies that contribute to advancing the understanding and practical implementation of hybrid energy systems. By bringing together interdisciplinary perspectives, this Special Issue aims to identify key research gaps and provide insights into future developments that will support the transition toward sustainable and resilient energy systems.

Guest Editor

Prof. Dr. Adrian Ilinca

École de Technologie Supérieure, Université du Québec, Montreal, QC
H3C 1K3, Canada

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Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

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