Special Issue

Advanced Application for Renewable Energy Sources: Modelling, Management Control, Data Monitoring, Health Management, Design and Improvement

Message from the Guest Editors

This Special Issue aims to encourage researchers and practitioners to share and exchange their original and high-quality articles (new theories, methods, techniques, and applications) focusing on innovative renewable energy system modelling, control management and monitoring, forecasting, including energy efficiency improvement and verification. Original research and review articles discussing state-of-the-art research are welcome. Potential topics include but are not limited to the following:

- Modelling and characterization of renewable energy systems;
- Electronic component diagnosis;
- Fault-tolerant control strategies;
- Fault detection and diagnosis of renewable energy systems;
- Digitalization of renewable energy systems;
- IoT and Industry 4.0-based sensor technology;
- Sensors, data acquisition, analysis and monitoring;
- Advanced optimization and control management;
- Advanced forecasting methods;
- Control optimization and stabilization of storage systems;
- Advanced control strategies for electrical machines in renewable energy applications;
- Artificial intelligence techniques in smart grids and renewable energy systems.

Guest Editors

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Deadline for manuscript submissions

closed (10 June 2025)

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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.

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