



Smart Optimization and Renewable Integrated Energy System

Guest Editors:

Dr. Dario Javier Benavides Padilla

1. Department of Electrical Engineering, University of Málaga, 29010 Málaga, Spain
2. Department of Electrical Engineering, University of Jaen, 23700 Linares, Spain

Dr. Wilian Paul Arevalo Cordero

1. Department of Electrical, Electronics and Telecommunications Engineering (DEET), University of Cuenca, Balzay Campus, Cuenca 010107, Ecuador
2. Department of Electrical Engineering, University of Jaen, 23700 Linares, Spain

Deadline for manuscript submissions:

10 October 2024

Message from the Guest Editors

The integration of renewables in electrical systems aims to reduce fossil fuel use and environmental impact. Uncertainty in renewable generation can cause grid instability. Energy storage systems (ESSs) provide a solution, ensuring continuous electrical services. ESSs store excess energy and release it as needed. Microgrid and smart grid integration with energy management models are promising solutions. However, optimization and intelligent systems pose new challenges. Optimal ESS management, intelligent systems, grid stability, control strategies, resilience, and off-grid configurations require analysis of new methods to improve productivity and energy distribution.

This Special Issue will call for submissions with topics include (but are not limited to) the following:

- distributed renewable energies
- energy storage systems
- energy management system
- smart grids, microgrids, nanogrids
- off-grid electrical systems
- frequency control and stabilization
- resilience in modern electrical systems
- energy control and optimization systems





energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: CiteScore - Q1 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://twitter.com/energies_mdpi)