Special Issue

New Trends in Power Generation for Modern Renewable Energy

Message from the Guest Editors

This Special Issue aims to present and disseminate the most recent advances related to the theory, algorithm, design, modelling, application, assessment, control, condition monitoring, optimal planning, development and implementation strategies and policies, challenges and way forward of power generation for modern renewable energy. Topics of interest for publication include, but are not limited to:

- Endless renewable energy potential (solar, wind, oceanic, nuclear, geothermal, bioenergy, hydrogen energy, tritium energy);
- Advances and applications of renewable energy;
- Clean energy conversion technologies;
- Renewable energy and energy storage systems;
- Optimal consumption planning;
- Smart grids and microgrids;
- Clean energy in a circular economy;
- Application of renewable energy technologies;
- Machine learning models in forecasting of virtual power plant;
- Digital Twin technology applications for power generation of modern renewable energy;
- AI-enabled energy management systems.

Guest Editors

Dr. Raluca Andreea Felseghi

Mechanical Engineering Department, Faculty of Automotive, Mechatronics, and Mechanical Engineering, Technical University of Cluj-Napoca, Bd. Muncii, no.103-105, 400641 Cluj-Napoca, Romania

Dr. Paula V. Unguresan

Mechanical Engineering Department, Faculty of Automotive, Mechatronics, and Mechanical Engineering, Technical University of Cluj-Napoca, Bd. Muncii, No.103-105, 400641 Cluj-Napoca, Romania

Deadline for manuscript submissions

closed (4 February 2025)

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

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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)