

Special Issue

Renewable Energy Power Plants and Systems

Message from the Guest Editors

The aim of this Special Issue is to cover promising, recent and novel research trends focused on the improvement of the operational performance of renewable energy power plants and hybrid renewable energy systems, both from an electrical and a mechanical viewpoint. Areas to be covered in this Research Topic may include, but are not limited to:

- Sustainable renewable generation systems (PV, wind, biomass, geothermal, etc.).
- Operational and performance analysis of REPPs.
- Grid code compliance of REPPs.
- Review of national grid code technical requirements.
- Novel control strategies for REPPs.
- Distributed renewable energy sources.
- Hybrid renewable energy systems.
- Energy prosumers.
- Repowering/revamping of REPPs.
- Lifetime extension of REPPs.
- End-of-life issues of REPPs.
- Recycling strategies for REPPs waste.
- Novel operation and maintenance (O&M) methodologies implemented in REPPs.
- Stress, vibration and fatigue studies of the mechanical parts of REPPs.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2023)



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About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.

There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).