

Special Issue

Advanced Power Systems for Waste Heat Recovery

Message from the Guest Editor

This Special Issue aims to present and disseminate the most recent advancements related to the theory, design, modeling, control and operation of advanced waste heat recovery power plants that would represent a step ahead with respect to the existing state-of-the-art in terms of performance, affordability, flexibility or operability. Topics of interest for publication include, but are not limited to:

- Non-conventional Organic Rankine Cycles (ORC) power plants;
- Supercritical carbon dioxide (sCO₂) power plants;
- Non-conventional steam Rankine power plants;
- Non-conventional open or closed gas cycles;
- Adoption of mixtures of fluids and their optimization;
- Adoption of thermal energy storage for power plant integration;
- Turbomachinery design for WHR plants;
- Volumetric expanders designed for WHR plants;
- Heat exchanger design for WHR plants;
- Optimal design methodologies;
- Advanced modeling approaches;
- System control and transient simulations;
- Real plant monitoring and performance assessment;
- Detailed cost structure and technoeconomic analysis.

Guest Editor

Dr. Marco Astolfi

Dipartimento di Energia, Politecnico di Milano, Via Lambruschini 4,
20156 Milan, Italy

Deadline for manuscript submissions

closed (21 August 2023)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/142563

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



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)