Special Issue

Sustainable Low-Carbon Energy Systems

Message from the Guest Editors

This Special Issue will collect papers related to low-carbon heat and power generation technologies, with a particular emphasis on renewable integration, waste heat recovery, and energy saving techniques. In doing so, it will offer insights into new studies and findings regarding clean energy production for stationary applications in the civil, industrial and tertiary sectors, especially energy-intensive industries, such as metals, ceramics, glass, paper, chemicals, and other production processes requiring low-carbon systems. Papers on digitalization, modelling, numerical studies, and data-driven and/or physics-based approaches for performance prediction are particularly welcome. Potential Special Issue papers topics include the following:

- Clean hydrogen generation;
- Combined heat and power based on advanced prime movers;
- Solar energy and heat generation;
- Renewable heat pumps;
- High-temperature industrial heat pumps;
- Organic Rankine cycles for waste heat recovery;
- Other innovative solutions.

Guest Editors

Dr. Andrea De Pascale

Department of Industrial Engineering, University of Bologna, 40126 Bologna, Italy

Dr. Saverio Ottaviano

Department of Industrial Engineering, University of Bologna, 40126 Bologna, Italy

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

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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.

Editor-in-Chief

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

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