# Special Issue

# Sustainable Technologies for Decarbonising the Energy Sector

### Message from the Guest Editors

Transitions in the transportation, power, building and industry sectors toward a clean and sustainable future poses many challenges in terms of energy resources and suitable technology. Efficiency improvement, the better exploitation of the available resources and emission-control techniques are important for the sustainable development of these sectors. There is significant interest in the decarbonisation of the energy sector, particularly in the transportation sector, with many techniques for combustion and after-treatment systems currently evolving, and in the building and industry sector with advanced technologies for heating, cooling and air-conditioning. This Special Issue will introduce the decarbonisation of the energy sector by using renewable energy resources and waste heat sources and improving existing fuel processing technologies. This Special Issue will focus on reporting on technological progress and novel ideas for the emission control and efficiency improvement of combustion engines, sustainable heating and cooling, and it will define the key paths for future research and development activities in the field.

### Guest Editors

Dr. Sumit Roy

Dr. Shivaprasad Kumar Vijayalakshmi

Dr. Alessandro Giampieri

### Deadline for manuscript submissions

closed (30 September 2024)

**Energies**

**an Open Access Journal by MDPI**

**Impact Factor 3.2**
**CiteScore 7.3**

mdpi.com/si/135083

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

mdpi.com/journal/energies

# Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

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)