

## Special Issue

# Emerging Topics in Energy Infrastructure Planning Based on Energy Sharing and Energy Transition

### Message from the Guest Editors

Energy systems necessitate substantial upgrade during the transition towards net-zero, which includes i) the adaption of new technologies for decarbonising the supply and demand sides by the uptake of renewable generation and the electrification of transportation and thermal sectors, ii) the innovation of business models and operating schemes in using distributed energy resources for decentralisation, and iii) the application of digitalisation tools such as blockchain to fulfill the decarbonisation and decentralisation targets. An example is the energy sharing initiative that has been endorsed in energy systems, where consumers can jointly invest in new technologies or prosumers can establish peer-to-peer trading schemes to cooperatively gain profits. The planning of energy infrastructure would be essential to facilitate the energy transition process and enable novel smart grid concepts such as energy sharing in a robust, secure, and cost-effective manner. This special issue aims to present and disseminate the advanced and innovative ideas related to energy infrastructure planning, energy sharing and energy transition.

### Guest Editors

Dr. Chao Long

Centre for Energy Systems and Strategy, Cranfield University, Cranfield, UK

Dr. Da Huo

Centre for Energy Systems and Strategy, Cranfield University, Cranfield, UK

### Deadline for manuscript submissions

closed (10 January 2023)



## Energies

an Open Access Journal  
by MDPI

Impact Factor 3.2  
CiteScore 7.3



[mdpi.com/si/119232](https://mdpi.com/si/119232)

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