

## Special Issue

# Renewable Energy Production and Distribution for a Sustainable Future: Models and Strategy

### Message from the Guest Editors

The energy sector is undergoing a fundamental transition towards decentralization and decarbonisation. In this context, renewable energy-based production systems have contributed to raising awareness on the role of prosumers. The energy produced by consumers is used for the satisfaction of their own energy needs; however, exceeding production can be distributed within the neighbourhood, thus allowing for the creation of a local decentralized energy distribution network. This will also reduce the use of conventional fossil-fuel-based centralized grid supply, leading to a carbon-free future. Currently, however, there is still the need for proper methodologies, models, strategies, and perspectives. Under these premises, the Special Issue includes but are not limited to the following main topics: Energy production and distribution models; Operation and management of decentralized energy distribution networks; Case studies; Renewable production technologies favoring the energy distribution among prosumers; Organizational models for energy distribution among prosumers; Socioeconomic and environmental perspectives.

---

### Guest Editors

Dr. Rosaria Volpe

Prof. Dr. Alberto Fichera

Dr. Samiran Samanta

---

### Deadline for manuscript submissions

closed (26 March 2023)



**Sustainability**

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.3**  
**CiteScore 7.7**



[mdpi.com/si/52179](https://mdpi.com/si/52179)

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

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





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



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



## About the Journal

### Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

---

### Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and Applied Science, University of Ontario  
Institute of Technology, Oshawa, ON L1G 0C5, Canada

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, RePEc, CAPIus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)