

## Special Issue

# Analyzing Development Paths of Emerging Energy Technologies

### Message from the Guest Editors

Assumptions on the development of technologies and their system integration are essential for the assessment of future options and paths for sustainable energy systems. With the help of techno-economic scenarios, detailed technology-related knowledge and projections of the energy economic boundary conditions are integrated. However, further knowledge is relevant to achieve a comprehensive and robust evaluation of future options and scenarios. Social factors and environmental effects play an important role; the life cycles of the technologies have to be considered and macroeconomic effects and actor-related investment incentives have to be taken into account. In this context, the Special Issue offers contributions that advance the assessment of key technologies for a sustainable energy supply, taking into account their system integration and expected path development. The focus is on emerging and innovative technologies for the generation, conversion and storage of electricity, heat and fuels. Different sustainability aspects and prospective assessment methods may be addressed.

---

### Guest Editors

Dr. Thomas Pregger

German Aerospace Center (DLR), Institute of Networked Energy Systems (formerly Institute of Engineering Thermodynamics), Department Energy Systems Analysis, 70569 Stuttgart, Germany

Dr. Urte Brand

German Aerospace Center (DLR), Institute of Networked Energy Systems, Department Energy Systems Analysis, 26129 Oldenburg, Germany

---

### Deadline for manuscript submissions

closed (31 August 2021)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/39147](https://mdpi.com/si/39147)

*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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, USA

---

## 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, CAPlus / SciFinder, and other databases.

### Journal Rank:

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