

## Special Issue

# Reliability Performance of Renewable Energy Technology under Uncertainty from Power Network Hosting Capacity

### Message from the Guest Editor

This Special Issue aims to publish high-quality research papers on the interdisciplinary field of optimisation under uncertainty and targets new probabilistic methods (i.e., scalable computational solutions) for managing large-scale power system reliability, from long-term planning to real-time operation, with the introduction of a wide range of renewable energy technologies. Research sought includes innovative approaches to the analytical and simulation techniques (e.g., Monte Carlo, Markov, life-cycle, and risk modelling) for assessing frequency and duration of outages due to the penetration of low-carbon technologies and the lack of energy/power supply that also consider system reliability metrics expressed as accurate probability distributions.

### Guest Editor

Dr. Ignacio Hernando-Gil

Department of Electrical Engineering, ESTIA Institute of Technology,  
64210 Bidart, France

### Deadline for manuscript submissions

closed (15 October 2022)



**Sustainability**

---

an Open Access Journal  
by MDPI

---

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

---



[mdpi.com/si/53653](https://mdpi.com/si/53653)

*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)