

## Special Issue

# Wind Power Technologies and Sustainability

### Message from the Guest Editor

It is our societal responsibility to replace carbon based power sources with renewable energy sources. Wind energy is considered to be a clean and sustainable source of green energy. For decades, windmills were built from recyclable and reusable materials. The arrival of plastic composite materials allowed the building of turbines with long blades that made them more efficient but less sustainable. Sustainability places high demands on new technologies to bring wind power as a main source of energy. The scope of this Special Issue is sustainable wind power technologies, including efficient designs of wind turbines and wind farms, blade materials, manufacturing technologies of turbine systems, aerodynamics and stability analyses, and wind power economics. The purpose of this Issue is to emphasize that sustainability in wind power technologies is an important aspect to promote wind power as a clean energy source replacement for carbon-based power sources. We are soliciting current literature on topics including the most common renewable power technologies:

- Solar
- Biogas
- Geothermal
- Biomass
- Hydroelectricity

---

### Guest Editor

Prof. Dr. Shaaban Abdallah

Department of Aerospace Engineering, University of Cincinnati,  
Cincinnati, OH 45221, USA

---

### Deadline for manuscript submissions

closed (1 February 2021)



## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/49954](https://mdpi.com/si/49954)

*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)