



Trends, Environmental Implications, Recent Obstacles and Solutions in the Sustainable Growth of the Renewable Energy Integrated Power Sector

Guest Editors:

Dr. Om Prakash Mahela

Power System Planning Division,
Rajasthan Rajya Vidyut Prasaran
Nigam Ltd., Jaipur 302005,
Rajasthan, India

Dr. Baseem Khan

Department of Electrical and
Computer Engineering, Hawassa
University, 05, Hawassa, Ethiopia

Deadline for manuscript
submissions:

closed (15 November 2023)

Message from the Guest Editors

Development requires energy, and for development to be sustainable, energy technology must be environmentally friendly.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Recent challenges and probable solutions of renewables integration, including technical and operational challenges such as voltage stability, frequency stability, and power quality.
- Integration policy and standards issues, resource assessment and location challenges, and societal obstacles were all mentioned in order for future research to identify acceptable solutions for sustainable energy.
- The operational impact of large-scale renewable power plant penetration on the stability, security, dependability, and quality
- Smart grid, artificial intelligence, and the internet of energy technologies that implemented for emission reduction strategies, efficient, cost-effective, and sustainable power sector.





an Open Access Journal by MDPI

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

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.

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, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)