



Electric Power Systems towards Sustainability

Guest Editors:

Prof. Dr. Sara Ahmed

Department of Electrical and
Computer Engineering, University
of Texas at San Antonio, San
Antonio, TX 78249, USA

Dr. Ning Kang

Power and Energy Systems
Department, Idaho National
Laboratory, Idaho Falls, ID 83415,
USA

Deadline for manuscript
submissions:

closed (30 June 2022)

Message from the Guest Editors

Dear Colleagues,

Sustainable and renewable energy sources in power systems are growing rapidly to address the increasing concerns of emissions reduction and improved energy efficiency. Many of these renewable energy sources are connected to the power system through power electronics inverters rather than spinning generators, and this poses major challenges for system control, stability, and protection but also brings unprecedented opportunities for more active and flexible distribution systems in the future with both AC and DC networks.

We encourage all researchers from relevant domains to submit papers to this Special Issue. Topics of interest include but are not limited to:

Integrating renewable energy sources into power systems for sustainable environment; Implementation of efficient and smart energy management strategies; Real-time monitoring and control; Real-time communication in sustainable electric power systems; Development of new voltage/current control strategies; Power quality control/unbalanced; Hybrid energy power systems; Transient stability; AC/DC microgrid operation in grid-tied and islanded modes; Energy storage systems; Grid-forming/following inverters.





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