

Special Issue

Electric Power Systems towards Sustainability

Message from the Guest Editors

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.

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

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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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

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