

Special Issue

Advances in Stability Control, Optimal Operation and Modeling Analysis of Power System with High-Level Renewable Energy: 2nd Edition

Message from the Guest Editors

This Special Issue aims to provide a forum for all scholars to present their discoveries on technological developments in renewable energy and sustainability. Research areas may include (but are not limited to) the following:

- Modeling and control of solar, wind, energy storage and emerging generation;
- Modeling and analysis of renewable energy delivery systems;
- Flexible networking technology of renewable energy systems;
- Sensing technology of spatial-temporal voltage distribution;
- Virtual inertia and primary frequency modulation control;
- Inertia identification and evaluation analysis;
- Volt/var optimal control of active distribution network based on renewable energy resources (RES);
- Voltage regulation and power compensation strategy;
- Inertia optimal configuration power system with high-level renewable energy resources (RES);
- Virtual synchronous generator;
- Energy management and tidal current control.

We look forward to receiving your contributions.

Guest Editors

Dr. Bo Zhang

Dr. Jiaoxin Jia

Dr. Sen Cui

Deadline for manuscript submissions

30 November 2026



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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

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