

## Special Issue

# Driving Electric Power Solutions for a Sustainable Energy Transition

### Message from the Guest Editors

This Special Issue aims to explore cutting-edge research and practical developments that address the challenges and opportunities arising from the global transition to low-carbon, sustainable energy systems. This issue invites original contributions that advance intelligent system design, data-driven grid management, flexible operation strategies, and resilience-enhancing technologies.

Topics of interest include, but not limited to, the following:

- Multi-vector and sector coupling energy systems;
- Large-scale renewable energy integration;
- Hybrid energy storage technologies for energy systems;
- System dynamics for inverter-dominated electric power systems;
- Grid resilience analysis and enhancement;
- Grid balancing, including frequency/voltage control and regulation;
- Intelligent coordination of distribution and transmission networks;
- Flexible resource management (V2G, demand response programs, and EMS);
- Siting, sizing and planning of power systems under uncertainties;
- Data-driven grid control;
- AI-enabled power systems.

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### Guest Editors

Dr. Wenfa Kang

Prof. Dr. Goran Strbac

Dr. Yajuan Guan

Prof. Dr. Juan C. Vasquez

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### Deadline for manuscript submissions

31 December 2026



## Sustainability

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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.

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### Editor-in-Chief

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