# **Special Issue**

# Renewable Energy, Smart Grid Technologies and Sustainable Energy Management: Challenges and Opportunities

### Message from the Guest Editor

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

- Artificial intelligence, machine learning, and optimization;
- Cybersecurity;
- Electric transportation systems;
- Energy management systems for EVs and renewablebased microgrids;
- Environmentally friendly processes to extract lithium;
- Green technologies:
- Internet of things (IoT) and the energy industry;
- The opportunities and challenges associated with high-voltage direct current (HVDC) transmission systems supporting renewable energy integration;
- Lithium-ion battery energy storage solutions for gridscale projects;
- Power systems (and their operation, planning, control, optimization, and security);
- Power electronics applications in renewable energy systems;
- Renewable energy and smart grid technologies;
- The role of renewable energy technologies in environmental protection;
- Virtual power plants for a more resilient and sustainable grid.

#### **Guest Editor**

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## Deadline for manuscript submissions

1 December 2025



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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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