

Special Issue

Wind Energy Resource Development and the Sustainable Environment

Message from the Guest Editors

Utilizing wind resources involves integrating atmospheric dynamics, technology, and environmental balance. It is crucial to enhance wind energy production while preserving nature. This Special Issue explores these connections and supports balancing energy use with environmental protection.

The Special Issue aims to bring together original contributions that do the following:

- Assess, model, and map wind resources across regions and climates;
- Develop innovative turbines, materials, and designs to boost efficiency and cut costs;
- Analyze environmental impacts, from noise to effects on wildlife and landscapes;
- Propose planning and policy strategies for responsible wind infrastructure development;
- Integrate wind energy through storage, digitalization, and hybrid systems;
- Examine economic and social implications to align energy goals with community acceptance.

In essence, this Special Issue aims to advance knowledge through robust scientific findings, supporting sustainable, low-emission, and resilient energy systems.

Guest Editors

Dr. Alexandra Ionelia Diaconita

Department of Mechanical Engineering, Faculty of Engineering,
"Dunarea de Jos" University of Galati, 47 Domneasca Street, 800008
Galati, Romania

Prof. Dr. Gabriel Andrei

Faculty of Engineering, University "Dunarea de Jos" of Galati,
Domneasca 47, 800008 Galati, Romania

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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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