Special Issue

Improving Wind Energy Systems: The Role of Computational and Experimental Capability in Sustainable Development

Message from the Guest Editor

Wind energy is one of the most promising and rapidly advancing renewable energy sources contributing to global sustainable development. As nations pursue carbon neutrality and cleaner energy production, wind power emerges as a viable option in reducing greenhouse gas emissions. However, achieving optimal performance, reliability, and sustainability are still challenging. This Special Issue seeks to gather cutting-edge research and innovative methodologies that contribute to the enhancement of wind energy systems through computational modeling, experimental testing, and integrated system design. The aim is to highlight the synergistic role of simulation and experimental tools in improving the efficiency, reliability, and environmental impact of wind energy solutions. Aligned with *Sustainability*'s scope, this issue welcomes interdisciplinary contributions that address the technical, economic, social, and environmental dimensions of wind energy development. Submissions that assess the sustainability and resilience impacts of new technologies and/or policy recommendations based on technical findings are highly encouraged.

Guest Editor

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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. *Sustainability* publishes original research articles, review 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

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