

Special Issue

Renewable Energy and Energy Economics: Pathways to Sustainable Systems Development

Message from the Guest Editor

This Special Issue emphasizes an integrated, systems-level perspective on renewable energy and energy economics, while also aligning well with Sustainability's mission to address environmental, economic, and social developments. While the literature on renewable energy technologies and energy economics is rich, most contributions remain fragmented—engineering studies often neglect socio-economic viability, while economic analyses may overlook technical feasibility. This Special Issue addresses that gap by promoting interdisciplinary research on renewable energy and energy economics, with global relevance and a focus on important areas of development such as the power, transport, and agricultural sectors. It supplements existing studies by addressing emerging themes such as LCOE/LCOS analysis, flexibility quantification, storage economics, and the role of green hydrogen as a sector-coupling vector. By encouraging measurement and monitoring of sustainable energy systems via key performance indicators, life cycle assessments, and integrated models, the Special Issue will contribute new knowledge and practical frameworks.

Guest Editor

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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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Prof. Dr. Steve W. Lyon

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