

Special Issue

Advanced Renewable Energy Supply and Sustainability Transitions: System Performance, Industrial Integration, and Risk-Aware Assessment

Message from the Guest Editor

The shift to renewable energy systems is fundamental to sustainable development and the mitigation of climate change. Despite the rapid advancement of technological innovation in renewable energy, there is an increasing necessity to assess system-level performance, sustainability, and integration, rather than concentrating exclusively on the design of new technologies. This Special Issue examines the necessity of renewable energy supply and transition strategies, focusing on efficiency, system assessment, industrial applications, and risk-aware decision-making. This Special Issue aims to examine the effective deployment and assessment of renewable energy systems, energy storage technologies, and energy efficiency measures in facilitating sustainable transitions. The scope encompasses methodologies and applications related to sustainability assessment, life cycle thinking, techno-economic feasibility analysis, sustainable logistics and supply chain management, industrial symbiosis, and circular economy strategies.

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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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