

Special Issue

Sustainability Assessments of Energy Technologies and Transitions

Message from the Guest Editor

The transition toward sustainable energy technologies is one of the most pressing challenges of our time. We welcome contributions that explore the integration of renewable energy, low-carbon technologies, market mechanisms, and policy instruments that drive sustainable energy futures. By bringing together insights from economics, engineering, environmental sciences, and policy studies, this Special Issue seeks to advance knowledge on how energy technologies can be assessed, compared, and implemented to foster sustainable development. Topics of interest include the following:

- Sustainability assessments of renewable energy technologies (solar, wind, bioenergy, hydropower, nuclear, etc.);
- Comparative studies of conventional and emerging energy systems;
- Low-carbon transition pathways and scenarios;
- Integration of green finance, carbon markets, and energy policies into sustainability evaluations;
- Socio-economic and environmental trade-offs in energy transitions;
- Digitalization, artificial intelligence, and technological innovations supporting sustainable energy;
- Metrics, tools, and indices for quantifying and monitoring sustainability performance.

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Deadline for manuscript submissions

31 October 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/257951

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About the Journal

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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