Special Issue

Integrated Approaches to Sustainable Energy Technologies: Life Cycle Assessment, Circular Economy, and Energy Transition

Message from the Guest Editor

The energy sector is undergoing a profound transformation, driven by the urgent need to mitigate climate change, ensure energy security, and promote sustainable development. This Special Issue, "Integrated Approaches to Sustainable Energy Technologies: Life Cycle Assessment, Circular Economy, and Energy Transition", focuses on advancing research that supports a scientifically grounded and systems-level understanding of sustainable energy pathways.

We invite original research and comprehensive reviews that explore technological solutions, methodological approaches, and integrative frameworks aimed at reducing the environmental and social impacts of energy systems—both renewable and non-renewable. A particular emphasis is placed on life cycle sustainability assessment (LCSA) tools, circular economy principles, and energy efficiency innovations that enable a just and low-carbon transitions.

By combining engineering, policy, and sustainability science, this Special Issue aims to highlight actionable insights and interdisciplinary approaches that can inform policy, industry, and research communities working toward a sustainable energy future.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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