Special Issue

Circular Economy Mechanisms for Improving Energy Efficiency

Message from the Guest Editors

The Special Issue adopts a mechanism-oriented perspective, moving beyond general circularity narratives to examine how concrete circular economy strategies translate into quantifiable energy outcomes. Relevant mechanisms include material loop strategies that reduce embodied and operational energy demand; industrial symbiosis and cascading resource use enabling waste heat recovery and shared energy services; life-cycle-oriented design approaches minimizing cumulative energy use; digital technologies for monitoring and optimizing coupled energy and material flows; and system-level integration of circular strategies in industrial clusters, urban systems, and energy-intensive value chains. To ensure alignment with the scope of Energies, all submissions must include explicit energy-related results, such as reductions in final or primary energy demand, improvements in energy efficiency indicators, or clearly quantified implications for energy systems. Submissions lacking a clear energy metric or energy-system relevance will be considered out of scope.

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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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