

Special Issue

Techno-Economic Analysis and Optimization for Energy Systems

Message from the Guest Editors

The challenges of climate change and energy transition require fundamental changes in energy systems. A circular economy has risen high in the agendas of policymakers as a way of enhancing the decarbonization approach. Conventional Techno-Economic Analysis has been used throughout the decades, as an important decision support tool to evaluate the technical performance and economic feasibility of a technology or a process. It is also usually combined with optimization techniques finding the “action” that best achieves a desired goal or objective. Recent research has begun to incorporate data-driven technologies into Techno-Economic Analysis to effectively optimize both processes and economic parameters simultaneously. This Special Issue calls for papers broadly related to techno-economic analysis and optimization approaches, especially for energy systems, taking into account circular economy principles. Recent theoretical and methodological advancements, review papers with critical analysis, case studies, applications, technical contributions, and applications of tools and techniques to improve techno-economic analysis and optimization are all welcome.

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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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