Special Issue

Technological Innovation, Economic Analysis, and Environment Impact for Energy Production and Utilization

Message from the Guest Editors

At present, there are problems such as inefficiency and environmental pollution in the process of energy production and utilization, and new technical methods urgently need to be developed. With the development of new technologies such as artificial intelligence, big data, and GIS, it is possible to carry out technological innovations for sustained economic energy production and utilization and to reduce the impact on the environment. To this end, this topic focuses on the following research content:

- Modeling and analysis in energy production and utilization;
- Environmental impact of energy production;
- Optimization and simulation in energy utilization;
- Economic analysis in energy utilization;
- Construction and application of big data ecosystems in the energy industry;
- Machine learning theory and its application in energy production;
- Digital energy systems;
- GIS and its application in energy fields;
- Design and architecture of intelligent energy systems;
- Digital twin technology in energy utilization.

Guest Editors

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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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