# Special Issue

# Advanced Low-Carbon Energy Technologies

**Message from the Guest Editor**

The transition to advanced low-carbon energy technologies has become pivotal in addressing global climate challenges and achieving sustainable development. These technologies are no longer confined to traditional renewable energy systems but are rapidly expanding into emerging domains.

This Special Issue highlights cutting-edge developments in conceptualizing, modelling, deploying, and managing advanced low-carbon energy technologies, emphasizing their role in achieving net-zero targets.

Topics of interest for publication include, but are not limited to, the following:

- Advanced nuclear technologies;
- Large-scale energy storage;
- Smart grid integration;
- Green hydrogen transportation;
- Carbon capture, storage, and utilization;
- Bioenergy innovations;
- Next-generation photovoltaics;
- Marine-related energy innovations;
- Geothermal systems;
- Integrated energy applications;
- Technology management.

**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.

## Editor-in-Chief

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