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## Advances in Carbon Capture and Storage and Renewable Energy Systems

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Deadline for manuscript  
submissions:

**30 August 2024**

### Message from the Guest Editors

Dear Colleagues,

To achieve net-zero targets by the middle of the century, it is essential to employ combinations of low-carbon and renewable energy technologies in different sectors including energy, residential, transportation, industry, etc. Net zero is all about ‘balancing’ or cancelling out any carbon we produce from a product or service. We reach net zero when the amount of greenhouse gas we produce is no more than the amount taken away. This Special Issue is seeking advanced research works on carbon capture utilization and storage (CCUS) and renewable energy systems and a combination of different net-zero scenarios in achieving carbon neutrality targets and meeting energy sustainability standards by 2050.

Prof. Dr. Hamidreza Gohari Darabkhani

Prof. Dr. Abdel-Hamid Soliman

*Guest Editors*



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# Special Issue



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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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