

## Special Issue

# Economic Growth, CO<sub>2</sub> Emissions, and Renewable Energy Consumption: Paths to Sustainable Development

### Message from the Guest Editors

The urgent challenge of climate change has placed the link between economic growth, CO<sub>2</sub> emissions, and renewable energy at the center of debate. Historically, growth has driven higher emissions and environmental harm, but the shift to clean energy offers a chance to decouple growth from carbon intensity. This Special Issue gathers theoretical and empirical studies on how renewable energy can foster sustainable growth, reduce climate risks, and support long-term strategies. Key questions include whether renewables can offset industrialization's costs, how carbon emissions affect productivity and trade, and which policies best drive green investment. Comparative studies of developed and developing economies are especially valuable for designing context-specific solutions. By integrating insights from economics, energy policy, and environmental science, this Special Issue deepens understanding of the balance between growth and sustainability, evaluates impacts on development, and outlines evidence-based pathways toward a low-carbon future.

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### Deadline for manuscript submissions

closed (28 February 2026)



## Energies

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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.

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