

## Special Issue

# Pathways to Clean Energy: Technologies, Policies, and Impacts

### Message from the Guest Editors

The transition to clean energy serves as a fundamental pillar for achieving global sustainability objectives, addressing climate change, and securing energy security and stability. Currently, the energy sector faces a decisive turning point. According to International Energy Agency (IEA) projections, reaching net-zero emissions by 2050 necessitates a more than threefold increase in annual global clean energy investments, reaching approximately USD 4 trillion by 2030. This unprecedented economic transformation introduces both complex challenges and significant opportunities that warrant rigorous economic analysis. This Special Issue seeks to advance our understanding of clean energy pathways by examining the interplay between technological innovation, policy frameworks, and societal impacts. This Special Issue aims to move beyond isolated perspectives and contribute to more holistic frameworks for analysing and accelerating clean energy transitions.

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### Deadline for manuscript submissions

20 March 2026



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Impact Factor 3.3  
CiteScore 7.7



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