

Special Issue

Towards Sustainable Energy Transition: Replacing Fossil Fuels-Based Energy with Waste-Derived and Renewable Energy

Message from the Guest Editors

Given the challenging decarbonization goals established by Europe for 2050, there is an urgent need to replace fossil fuels-based energy with renewable energy technologies.

The aim of this Special Issue is to compile relevant research that address the substitution of fossil fuel-based energy with waste-derived energy, particularly focusing on the sustainability of the transition processes. We invite submissions of original research articles and reviews, in areas that may include (but not limited to) the following:

- Biomethane as a renewable source of energy in EILs;
- Renewable syngas production optimization to substitute fossil fuel-based energy;
- Biomass as a renewable and sustainable substitute of fuels in EILs;
- New value chains from waste to produce different energy carriers;
- Life cycle assessment in waste value chains;
- Green hydrogen from waste as a source of energy for EILs.

We look forward to receiving your contributions.

Guest Editors

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Deadline for manuscript submissions

closed (28 February 2025)



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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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