Editorial

Zafer Utlu* and Arif Karabuğa

Faculty of Engineering and Natural Sciences,
Istanbul Atlas University,
34408, Istanbul, Turkey
Email: zafer.utlu@atlas.edu.tr
Email: arif.karabuga@atlas.edu.tr
*Corresponding author

In recent times, sustainable energy technologies have become increasingly pivotal, driven by the urgent need to decarbonise global energy policies. This imperative is crucial for safeguarding our planet's habitability and promoting continuous development. Achieving these goals requires not only diversifying energy sources and advancing scientific inquiry but also implementing strategic plans aligned with sustainable objectives. Sustainable energy technologies encompass a broad spectrum of hardware, techniques, skills, methods, and processes used in energy production and service provision. They encompass the generation, transformation, storage, and crucially, transmission of energy to future generations. The urgency of reducing reliance on fossil fuels and accelerating the adoption of sustainable energy technologies is further on August 16–18, 2022. They underwent rigorous review processes before publication, addressing various sustainability issues such as carbon footprint reduction, carbon capture technologies, solar innovations, life cycle assessments, economic and environmental impacts, and underscored by the challenges of climate change.

This special issue features numerous papers on integrated energy systems for sustainable energy policies. These papers were selected from the 11th Global Conference on Global Warming 2023 (GCGW-2023) held in Istanbul, Turkey, on June 14–16, 2023, and the 19th International Conference on Sustainable Energy Technologies (SET2022) held fostering green growth.

We extend our sincere thanks to the authors for their contributions and cooperation, and to the reviewers for their valuable evaluations, which have enhanced the quality of the articles. As guest editors, we would also like to express our gratitude to the Editor-in-Chief, Professor Dr. Ibrahim Dincer, for accepting this study and for their unwavering support throughout the publication process.

Copyright © 2025 Inderscience Enterprises Ltd.