Editorial

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In today's global context, where energy and environmental sustainability are of increasing importance, the field of energy efficiency and management is developing as a significant area of opportunity. Technological shortcomings arising from environmental degradation caused by fossil fuel consumption have given rise to a novel perspective, alongside the exploration of alternative fuels. The manageability of energy is being transformed by new perspectives, including low-carbon technologies, and the innovation approach is also being recognised as a key factor in this change. Academic perspectives highlight the importance of effective resource management in reducing global emissions. These evaluations necessitate addressing energy transformation with a sustainable structure, utilising various solutions and techniques, and moving towards decarbonisation. This environment fosters academic discourse and activities that promote discussion. Academic publications that draw attention to problem areas, especially in carbon management and solutions based on sustainability, are discussed together with climatic processes at different points where energy exergy and environmental issues are integrated. The solutions and studies, which include special topics selected in this respect, have been combined in the special issue. These studies were selected from the 14th International Energy, Exergy and Environmental Symposium (IEEES-2023) held in Istanbul, Türkiye, on 24–27 December 2023. I would like to express my sincere gratitude to the authors for their contributions and collaborations with effective studies and to the valuable referees who improved the quality of the articles. As guest editor, I would also like to express my gratitude to the Editor-in-Chief, Professor Dr. İbrahim Dinçer, for accepting this study and for his unwavering support throughout the publication process.

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