

Preface

First of all, we would like to thank the Ministry of Higher Education and Scientific Research, Universiti Tenaga Nasional and the Future Society for Energy Studies and Research for organizing the Second International Conference on the Future Sustainable Energy with Al-Mustaqbal University and making this event international. We would like to say thank you to all of the keynote speakers, researchers and reviewers who contributed to the meeting through their outstanding research articles.

Thanks are also extended to Trans Tech Publications Ltd for providing the publishing platform for the conference and for their technical support.

The aim of The Second International Conference on the Future Sustainable Energy was to create a platform for researchers to discuss efficient, coherent, and coordinated ways of developing new and renewable energy sources, providing access to them for all, and to capture the substantial role that clean energy technology plays in addressing many challenges of modern society. This conference was called to build a coherent, sustainable network of relationships among budding researchers, innovators, industry professionals and academics.

The rapid growth of innovative sustainable energy resources has called for the necessity to exchange and transfer recent research, data, and technical information throughout the globe. Energy represents one of the essential life needs for all human beings. Still, most people have no or restricted access to energy which limits opportunities to become a part of national and global development. Sustainable Development Goal, as set by the UN General Assembly, aims to correct this enormous imbalance by ensuring everyone has access to affordable, reliable, and modern energy resources/services by the year 2030.

ICFSE 2024 took place on February 20-22, 2024, at Al-Mustaqbal University (MU), Iraq. MU has gained several recognitions related to the long-term adoption of innovative and novel research trends relevant to sustainable and renewable energy through the advanced positions that MU has achieved in many international world rankings such as THE impact and UI green metric.

In this edition, we collected articles dedicated to the latest research findings in green concrete and sustainable technologies in architecture and construction. We hope it will serve as a valuable source of knowledge to the scientists and practitioners involved in these specific fields.