

Preface

Against the backdrop of increasing global climate change and environmental challenges, the topic of sustainable development and energy resources has become the focus of global attention. The 2024 International Conference on Sustainable Development and Energy Resources (SDER 2024) is indeed an important event under the guidance of the Sustainable Development Goals to address the current global challenges such as shortage of energy resources and serious environmental pollution.

The SDER 2024 brings together more than 100 experts, scholars and related personnel from universities, research institutions and enterprises around the world to present and exchange the latest scientific research results in the field of sustainable development and energy resources in recent years. With the theme of “Sustainable Development and Energy Resources”, the conference aims to promote global cooperation and innovation in the relevant fields through in-depth exchanges and discussions. It is not only a platform for academic exchanges, but also an important opportunity to promote the industry’s research methodology and application development.

The conference has invited many well-known experts and scholars from home and abroad to act as keynote speakers and conference committee members, who brought cutting-edge academic reports and in-depth professional discussions. Professor Udaya K. Madawala, IEEE Fellow (The University of Auckland, New Zealand), Professor Baojie He (Chongqing University, China), Professor Dimitrios Karamanis (University of Patras, Greece), Associate Professor Qiushi Cui (Chongqing University, China), Associate Professor Riyang Shu (Guangdong University of Technology, China) performed wonderful speeches and shared their professional insights on cutting-edge issues of sustainable development and energy resources and their applications in various industries. In addition to the keynote speeches, oral presentations, poster presentations and other ways of academic exchange were also held, meeting the needs of different participants, and jointly contributing wisdom and strength to the promotion of sustainable and healthy development of our society.

The contributions included in the Proceedings of SDER 2024 were strictly peer-reviewed by 2-3 experts in the domains, covering such topics as Gas Emissions, Air Pollution and Control, Sustainable Energy and Environment, Solid Waste Management, Renewable Energy Saving, Environmental Impact Assessment, Transport and Distribution of Electric Energy, etc. This Proceedings provides opportunities for the delegates to exchange new ideas and implementation experiences, to establish research connection and to find global partners for potential collaboration. We hope the readers can find the sustainability of the usefulness of this paper volume, in applying sustainable development and energy resources and related technologies into the various aspects of the society.

This conference would not be possible without the dedication of our organizing committee, the support of our sponsors, the contribution of our authors and speakers, and, most importantly, the participation of each and every one of you. Your presence here is a testament to your commitment to pushing the frontiers of knowledge and fostering innovation and collaboration in fields of and related to sustainable development and energy resources.

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