Preface

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Abstract. The overview is devoted to the main directions and results of the III International Conference on Improving Energy Efficiency, Environmental Safety and Sustainable Development in Agriculture (EESTE2023) held on October 25-27, 2023. It describes the main directions and gives the details about the participants and the proceedings.

This volume contains proceedings of the main directions and results of the III International Conference on Improving Energy Efficiency, Environmental Safety and Sustainable Development in Agriculture (EESTE2023) organized by International University of Tourism and Entrepreneurship of Tajikistan, Dushanbe, Tajikistan; National University – Science & Technology, Muscat, Oman; Fergana State University, Fergana, Uzbekistan on October 25-27, 2023.

The conference was held with summarize international experience in the field of energy efficiency, agriculture and conservation of biological diversity. The conference was present scientific research aimed at solving a set of problems in the field of sustainable development, namely:
- Popularization of fundamental and applied research in the field of energy and sustainable development;
- Development of scientific and practical potential in order to form proposals for the introduction of high technologies in agriculture;
- Formation of recommendations aimed at improving information technology, engineering, innovative and digital technologies in agriculture and environmental protection.

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The conference was organized in the following areas: energy efficiency, energy processes, fuel and energy complex, environmental protection, conservation of biological diversity, natural environment, ecology, remote sensing of the Earth, agriculture, technology and technology in agriculture, innovative and digital technologies in agriculture, economics and management in agriculture.

At the conference, reports were presented on energy, ecology and agriculture from the following countries: China, Oman, Latvia, Ukraine, Kazakhstan, Armenia, Azerbaijan, Uzbekistan, Tajikistan and Russia; as part of an international exchange, the authors of the articles and conference participants were able to familiarize themselves with advanced technologies on current topics of the conference.

The conference editors express special gratitude to the conference organizers, members of the program committee, authors of articles, reviewers, conference participants and the EDP Science Team for the opportunity to publish the conference proceedings.
International Program Committee III International Conference on Improving Energy Efficiency, Environmental Safety and Sustainable Development in Agriculture (EESTE2023)

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- **Abdullozoda Ramazon** – Candidate of Technical Sciences, associate professor, vice-rector of the Tajik Technical University named after academician M.S. Osimi, Dushanbe, Republic of Tajikistan – Co-Chairman of the International Programming Committee;
- **Devi Geetha** – Doctor, Associate Professor, National university of Science & Technology, Oman – Co-Chairman of the International Programming Committee;
- **Khalmatjanova Gulchekhra** – PhD, Associate Professor, Fergana State University, Fergana, Republic of Uzbekistan – Co-Chairman of the International Programming Committee;
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- **Firsov Yuri** – Candidate of Sciences, Prague Institute for Advanced Studies, Prague, Czech Republic;
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