



International Seminar on

Sustainable Technologies in Modern Energy: A Roadmap Towards Green Economy

7th - 8th March 2022 | Islamabad, Pakistan

Host Institution: COMSATS University Islamabad

Pakistan Time: 10:00-17:30 hrs / GMT: 05:00-12:30 hrs

Venue: Pakistan Academy of Sciences, Islamabad



INTRODUCTION

Energy plays a significant role in the socio-economic development of a country. The United Nations' Sustainable Development Goal 7 (SDG 7), establishes the need for provision of affordable, reliable, sustainable and modern energy for the masses by 2030. In view of some of the critical global issues such as climate change, population growth, environmental pollution, and inefficient use and depletion of natural resources, the developed as well as developing countries are in dire need to devise smart and efficient solutions that provide sustainable energy solutions. A major paradigm shift in conventional approach is required for resolution of the age-old energy crises in developing countries, which also necessitates research and development to bring forth emerging technologies as well as a roadmap for their effective deployment. Integration of Renewable Energy technologies in the existing systems, with efficient utilization and preservation of conventional energy resources can pave the way for transition to Clean Energy.

Effective utilization of Information and Communications Technologies (ICTs) is inevitable for the effective implementation of innovative solutions and novel technologies in the energy sector, such as development of smart grids and microgrids. However, keeping in view financial resources and fragile economies of the developing countries, it presents a challenging situation. Therefore, developing countries are compelled to restructure their energy sectors. mainly around the renewable energy, while focusing on energy efficiency and conservation strategies. The strategic plans developed in this regard may aim for sustainable development with respect to related industrial and innovation needs. Such plans have better chances of success being supported by sound energy policies.

To cater to the afore mentioned modern energy needs, the Commission on Science and Technology for Sustainable Development in the South (COMSATS) is organizing International Seminar on 'Sustainable Technologies in Modern Energy: A Roadmap Towards Green Economy' with support of the United Nations Educational, Scientific and Cultural Organization (UNESCO), and COMSATS' Centre of Excellence in Islamabad, the

COMSATS University Islamabad (CUI). COMSATS University will host the seminar at its Islamabad Campus on March 7th-8th, 2022. The aim is to provide interdisciplinary forum to academicians, scientists and early career researchers to deliberate on the importance of energy efficiency, sustainable and renewable energy resources, technologies and applications.

OBJECTIVES

- ✓ To highlight the critical role of sustainable and renewable energy technologies in driving progress towards developing green economies in developing countries
- ✓ Provide a forum to scientists, researchers, technologists and faculty members to update and share information on recent innovations and developments trends
- ✓ To build capacities and strengthen linkages among R&D/S&T organizations, academic institutions, and other stakeholders to best contribute towards development and utilization of sustainable and renewable energy
- ✓ To review socio-economic and policy implications, practical implementation challenges and innovative solutions adopted for sustainable energy
- ✓ To make recommendations to the policy-makers and implementers for developing and executing informed policies and strategies to support multi-sectoral adoption of technical/engineering solutions for sustainable and renewable energy production, storage and integration

THEMES

- ✓ Emerging green technologies for sustainable energy
- ✓ Green ICTs for sustainable development
- ✓ Energy efficiency & energy policy implications for sustainable energy growth and development
- ✓ Conventional & non-conventional resources - the right balance for energy mix

WHO SHOULD PARTICIPATE

Academicians, researchers, scientists, innovators, industrial experts, students from developing countries working in the relevant fields of Energy R&D are encouraged to participate in this international Seminar.

HOW TO REGISTER

In view of COVID-19, international participation is encouraged through virtual means, while small number of local participants can participate in-person by registering by 25th February 2022. Registration for the Seminar can be made through the following link:

VIRTUAL PLATFORMS

Zoom Registration for Participation:

<https://tinyurl.com/ICSTMEAGE>

Live streaming on our Youtube Channel:

<https://www.youtube.com/channel/UCwFQGSXMT063O-aElrxoggQ>

HOST INSTITUTION: COMSATS University Islamabad

VENUE: Pakistan Academy of Sciences, Islamabad

For further information, please contact:

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