



APCTT
Asian and Pacific Centre
for Transfer of Technology



Agency for
Innovative Development

International Conference on Green Technologies for Climate Action and Resilience

05 December 2023

Tashkent, Uzbekistan and online

Jointly Organized by

Asian and Pacific Centre for Transfer of Technology (APCTT) of the
United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)
and

Agency for Innovative Development, Ministry of Higher Education, Science and Innovation, Republic
of Uzbekistan

Registration Link: <https://zoom.us/meeting/register/tJwvf-ugrj8iEtK2bOgf-iLJYo2b6l2qnFLa>

Background

Green technology comprises a diverse range of technologies encompassing renewable energy, energy efficiency, waste management and recycling, organic agriculture, sustainable building and product design, sustainable transport such as electric vehicles among others.¹ Also coming up rapidly are Fourth Industrial Revolution technologies such as Artificial Intelligence (AI), Internet of Things (IoT), and Blockchain, which offer innovative solutions for sustainable development. Broadly, green technologies are described as technologies with the potential to substantially enhance environmental performance compared to other technological alternatives. They align with the overarching objectives of enhancing climate resilience, preserving natural resources, fostering green innovations and entrepreneurship, and upholding social equity and environmental justice, in pursuit of a more resilient and sustainable global paradigm.

As the tangible impacts of climate change continue to manifest in the Asia-Pacific region, the role of green technologies in strengthening climate resilience gains paramount importance. Green technologies such as sustainable energy sources, climate-resilient infrastructure, effective water resource management, and early warning systems, are central to addressing the challenges posed by the changing climate. Through diverse pathways, green technologies reinforce communities, safeguard vital infrastructure, preserve resources, and empower individuals to navigate through the complexities of climate change. It is, therefore, important for countries of the Asia Pacific region to adopt proactive policies and incentives targeting green technologies, prioritize green investment, and build innovation and technological capabilities to enhance their climate resilience.

This International Conference serves provides a platform to discuss the role of green technologies for accelerating climate action and building climate resilience interventions in the region. It would highlight the transformative potential of green technologies and support member states for a collective drive towards sustainable and resilient future.

Objectives

The Conference seeks to achieve the following objectives:

1. Increase knowledge and awareness on enabling policies and innovative applications and good practices in green technologies for climate action and resilience.
2. Foster cross-border collaboration among stakeholders, including government, industry, academia, and civil society, to accelerate transfer, adoption and diffusion of green technologies for climate action and resilience.

Target Audience

The workshop is designed for a diverse range of participants, including Government officials, policymakers and research institutions, Industry leaders and professionals, academia and researchers and civil society organisations.

¹ <https://www.unescap.org/sites/default/files/34.%20FS-Green-Technology.pdf>

TENTATIVE PROGRAMME

Date: 05 December 2023 | Time: 09:30–17:00 (Uzbekistan Time; GMT+5) - Hybrid mode

08:30-9:30	Registration	
09.00-09.30	Exhibition	Exhibition on Green Technologies in Climate Change by Agency for Innovative Development
9:30-10:35	Opening session	
9.30-9:40	Welcome address	Ms. Preeti Soni Head Asian and Pacific Centre for Transfer of Technology, United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)
9.40-9.50	Opening address	Dr. Olimjon Tuychiev Director Agency for Innovative Development, Ministry of Higher Education, Science and Innovation, Republic of Uzbekistan
9.50-10:00	Special address	Ms. Rusyan Mamiit Partnerships Officer United Nations Resident Coordinator's Office, Uzbekistan
10:00-10.10	Special address	Ms. Armida Salsiah Alisjahbana Under-Secretary-General of the United Nations and Executive Secretary of the Economic and Social Commission for Asia and the Pacific (ESCAP) (video message)
10.10-10.25	Group Photo	
10:25- 10:45	<i>Break</i>	
10:45- 11:30	Technical Session 1: Understanding the interface between green technologies and climate change This session will deliberate on the pivotal role that green technologies play in addressing climate change by reducing greenhouse gas emissions and enhancing resilience. Moderator: Tbc Governor, Thailand Institute of Scientific and Technological Research (TISTR) (Tbc)	
10:45-11:05	<i>Green technology solutions for emission reduction in the Asia-Pacific: an international perspective</i> Mr. Dmitri Kalinin and Ms. Sabrina Herzog de Souza Lima, World Intellectual Property Organization	
11:05-11:20	<i>Adaptive pathways for resilient infrastructure in an evolving disaster-scape</i> Dr. Abhijit Dey, Coalition for Disaster Resilient Infrastructure	
11:20-11.30	Moderator's Comments	
11:30-11:40	<i>Open Discussion</i>	
11:40-13:00	Technical Session 2: Case Studies on frontier innovations and green technologies Moderator: Tbc	

	This session will consist of case studies of new and emerging green technologies in key areas
11:40-11:55	<i>4IR, Artificial Intelligence and green technologies for resilience</i> Dr. Purushottam Kaushik, Center for the Fourth Industrial Revolution India, The World Economic Forum
11:55-12:10	<i>Nature based solutions: bio-inspired design in green technology for resilience</i> Dr. Anvar Shalmashi, Iranian Research Organization for Science and Technology, Islamic Republic of Iran
12:10-12:25	<i>Microalga: a sustainable carbon biofixation towards circular economy</i> Dr. Muthu Arumugam, CSIR-National Institute for Interdisciplinary Science and Technology (NIIST), Trivandrum, India.
12:25-12:35	Moderator's Comments
12:35-12:50	<i>Open Discussion</i>
12:50-14:00	<i>Lunch</i>
14:00-15:00	Technical Session 3: Research and Development for Social Problem Solving: The Living Labs Approach Moderator: Dr. Eun Joo Kim, Principal Researcher, Science and Technology Policy Institute, Republic of Korea The session will present three case studies using the Living Labs approach (an inclusive ecosystem to unite stakeholders) for creating solutions for social challenges
14:00-14:15	<i>Living Labs Activities for Social Problem-Solving R&D in Korea: Achievements and Challenges from Case Studies</i> Dr. Jieun Seong, Senior Research Fellow, Science and Technology Policy Institute
14:15-14:30	<i>Proposal of plasma technology as an appropriate technology: Focusing on on-site air-to-fertilizer system and agricultural waste management</i> Dr. Jong-Seok Song, Senior Research Fellow, Korea Institute of Fusion Energy
14:30-14:45	<i>A Plan to approach ODA project based on an integrated management solution for river/marine debris</i> Dr. Jonghwa Won, CEO, Foresys Co., Ltd.
14:45-15:00	<i>Discussions</i>
15:00-15:15	<i>Break</i>
15:15-16:30	Technical Session 4: Panel discussion: Cultivating Cross-Border Knowledge sharing: driving sustainable and green technology solutions for enhancing climate resilience In this session, an eminent Panel comprising representatives from member States will share opportunities, constraints, and success stories of cross-sector collaboration to drive green technology for enhancing climate action and resilience. Moderator: Dr. Preeti Soni, Head, Asian and Pacific Centre for Transfer of Technology, United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)

	<p>Representative (s) of member States</p> <p>Mr. Md. Abdur Razzaque Additional Secretary, Ministry of Science and Technology, Bangladesh</p> <p>Ms. Liu Xin Project Coordinator, The Administrative Center for China's Agenda 21, People's Republic of China</p> <p>Dr Vipin Chandra Shukla Scientist-G, Department of Scientific & Industrial Research, Ministry of Science & Technology, India</p> <p>Dr. Anvar Shalmasi General Director for International Scientific Cooperation, Iranian Research Organisation for Science and Technology, Islamic Republic of Iran</p> <p>Ms. Marion Ivy De La Cruz Decena Director, Technology Application and Promotion Institute, Department of Science and Technology, Philippines</p> <p>Dr. Prof. Stepan Kalmykov Vice-President of the Russian Academy of Sciences, Russia</p> <p>Ms. Boonnanida Sodha Director of the International Relations Division, Thailand Institute of Scientific and Technological Research, Thailand</p> <p>Dr. Olimjon Tuychiev Director, Agency for Innovative Development, Ministry of Higher Education, Science and Innovation, Republic of Uzbekistan</p> <p>Mr. Khagendra Bahadur Basnet Senior Divisional Engineer, Ministry of Industry Commerce and Supplies, Nepal</p>
<p>16:30-16:45</p>	<p>Closing remarks by</p> <p>Ms. Preeti Soni, Head, Asian and Pacific Centre for Transfer of Technology, United Nations Economic and Social Commission for Asia and the Pacific (ESCAP)</p> <p>Dr. Olimjon Tuychiev, Director, Agency for Innovative Development, Ministry of Higher Education, Science and Innovation, Republic of Uzbekistan</p>