



APCTT
Asian and Pacific Centre
for Transfer of Technology



Ministry of Science and ICT



**Embassy of
the Republic
of Korea**



과학기술정책연구원
SCIENCE AND TECHNOLOGY POLICY INSTITUTE



**NATIONAL INSTITUTE OF
GREEN TECHNOLOGY**



KICT
한국건설기술연구원
KOREA INSTITUTE OF CIVIL ENGINEERING
AND BUILDING TECHNOLOGY

SIDE EVENT

Harmonizing Innovation Growth and Climate Resilience: Climate Technology Cooperation in the Asia-Pacific Region

15:45-17:00, 23 April 2025

Conference Room 4 (level 1), UN Conference Centre, Bangkok

Organized by

Science and Technology Policy Institute (STEPI), National Institute of Green Technology (NIGT), Korea Institute of Civil Engineering and Building Technology (KICT), Asian and Pacific Centre for Transfer of Technology (APCTT)

Hosted by the Ministry of Science and ICT, Republic of Korea, Embassy of the Republic of Korea in Thailand, and Asian and Pacific Centre for Transfer of Technology (APCTT) of UN ESCAP

Background

Following the Paris Agreement in 2015, UN member countries have submitted their Nationally Determined Contributions (NDCs), with a new round of goal updates and implementation reviews set to start in 2025. Therefore, it is essential to establish systems to quantitatively assess the implementation of carbon reduction goals and share the performance outcomes of climate technology demonstration projects internationally.

Nature-based solutions (NBS) have been recognized as a method for expanding carbon sinks and addressing climate change. Building upon this concept, Nature Based Innovation (NBI) emphasizes integrating innovations with nature-based strategies to promote carbon neutrality, climate adaptation, and innovation-driven sustainable development. Operationalization of the NBI approach requires development of relevant datasets and systems that can quantitatively assess the potential of innovative technologies for climate action. In this context, AI-driven systems are expected to play a pivotal role in enhancing the accuracy of assessment of potential carbon reduction contributions of technologies. Furthermore, a strategic framework linking technology with finance may be established to accelerate the commercialization of innovative climate technologies.

This session will bring together policymakers and experts to deliberate on 1) integration of advanced technologies (such as Artificial Intelligence and Machine Learning) with climate solutions, 2) need for an AI-based NBI evaluation system for quantitative assessment of climate technologies, ensuring data-driven decision-making, and 3) strategies for linking climate technologies with the carbon credit market and green finance to generate economic value and scale solutions in the global market.

Objectives

- Discuss the need and design of an AI-based NBI evaluation system and a quantitative analysis framework for validating climate technology in NBI projects.
- Understand the potential of AI-based NBI Platform as a policymaking tool for quantitative evaluation and diffusion of climate technology.
- Explore sustainable investment strategies based on NBI evaluation linked to carbon credit markets and green finance.

Target Audience

The event will bring together government officials, policymakers, private sector representatives, academia and researchers, urban planners and engineers, civil society organizations, financial institutions, technology developers, and environmental and sustainability experts.