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 Balanced 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.

TENTATIVE PROGRAMME

Date: 23 April 2025 | Time: 15:45 – 17:00
Venue: Conference Room 4(level 1), UN Conference Centre, Bangkok

Master of Ceremonies: Dr. Eun Joo Kim

Time	Agenda Item	Speaker
15:45-15:55	**Opening Remarks** **Welcome Remarks (video)** **Congratulatory Remarks**	**Dr. Ji Woong Yoon**, President, STEPI **Dr. Sanghyup Lee**, President, NIGT **H.E. Yongmin Park**, Ambassador of the Republic of Korea to the Kingdom of Thailand
	Presentation	
15:55-16:30	*Emerging Technologies for Climate Action in the Asia Pacific*	**Dr. Preeti Soni**, Head, APCTT
	Nature Balanced Innovation (NBI): Linking Innovative Growth and Climate Resilience through NBI	**Dr. Soo J. Sohn**, Senior Research Fellow, STEPI
	AI-Based Carbon Reduction Assessment System for Climate Technologies	**Prof. Junbeum Kim**, Associate Professor, University of Technology of Troyes
	Climate Tech-Finance Integrated Trading System of the Republic of Korea	**Mr. Hee Jin Shin**, Director Kyobo Securities Co., Ltd.
	Panel Discussion	
16:30-17:00	**Discussion Topic** - *Importance of AI and data-driven systems for evaluating the carbon reduction potential of climate technologies* - *Operationalization of AI-based NBI evaluation for climate technologies - policy and Institutional mechanisms, demonstration, collaboration and partnerships* - *Public-Private Partnership strategies for climate tech-finance integration in the Asia-Pacific Region* - *Emerging technologies for climate action – opportunities and challenges*	Moderator: **Dr. Jaeryoung Song**, Senior Researcher, NIGT Panellists: **Dr. Minsu Son**, Research Fellow, KICT **Mr. Jae H. Lee**, General Partner, Zeitgeist Capital, USA **Dr. Pham Tran Hai**, Senior Advisor, IRUS, Viet Nam
17:00	**Closing Remarks**	**Dr. Eun Joo Kim**, Principal Researcher, STEPI