

UN CTCN 2026 Regional NDE Forum: Asia

Summary Note

Date & Venue: 7 July 2026, Pattaya, Thailand

Host country: Thailand, Office of National Higher Education Science Research and Innovation Policy Council, Ministry of Higher Education, Science, Research and Innovation (MHESRI)

Partnered organization: UNFCCC TEC

Background and objective

The Climate Technology Centre and Network (CTCN), implementation arm of the UNFCCC Technology Mechanism (TM), hosted by UNEP, is mandated to support developing countries through capacity building, technical assistance, and knowledge sharing, with Nationally Designated Entities (NDEs) serving as national focal points (Decision 1/CP.16, paragraph 117 (b), 123). With the ongoing Programme of Work, the focus lies on achieving transformative impacts and scaling up through national innovation systems and digitalization across five key areas: Water-Energy-Food nexus, Buildings and Infrastructure, Sustainable Mobility, Energy Systems, and Business and Industry. As part of its mandate, it organizes a Regional Forum for the National Designated Entities from Asian countries on an annual basis. In parallel, the Network Engagement Strategy proposed at the 26th Advisory Board meeting, responds to the continued growth of the Network by calling for more systematic, visible, and meaningful engagement modalities that move beyond ad hoc participation and project-based interactions. The objective of this forum is to share experiences and best practices from CTCN technical assistance across the region.

List of participants

The NDE Forum was attended by 18 NDEs from the regions, both in-person and online, and 37 delegates, including Young Negotiators, TEC members, UNFCCC representatives, and other institutions from CTCN network and beyond. This meeting included the participation of 23 women, and 32 men. The full list of participants in Annex 1.

Sessions covered: Information on COP30, peer-to-peer learning on CTCN procedures and services, and bilateral with CTCN

Official opening and Key updates from the TM

The forum began with an official opening session where participants were addressed by the NDE of Thailand, CTCN Director, and the Director a.i. of UNEP ROAP, and the Deputy Prime Ministry of MHESRI.

The UNFCCC TM delivered updates in four sequential sessions covering the following topics:

- CTCN Activities and Outlook for 2026-2027
- TEC Activities and Outlook for 2026-2027
- Technology Development and Transfer under the UNFCCC, including outcomes from COP 30
- Updates from the African Group of Negotiators

The forum provided an opportunity for the CTCN to demonstrate the outputs of 2023-2027 Programme of Work, discuss national and regional trends and priorities, and receive feedback from NDEs. Regarding the latest updates related to TM including TM-FM linkages, CTCN's independent review, and

hosting agency and newly added mandate like BTIP, countries were asked to share their views and exchange expectations. In addition, targeted sessions on youth, gender and indigenous people and the updated CTCN procedures were delivered.

Feedback from NDEs on CTCN work in the region

As part of the agenda of the CTCN regional NDE Forum, NDEs provided feedback on the issues and challenges they face while carrying out their tasks in their respective countries during the first day of the programme. The objective of the session was for the CTCN to understand some of the bottlenecks NDEs face in executing their role and to discuss, in a cooperative manner, possible ways forward. The session was moderated by Ariesta Nigrum, CTCN Director, and Mortiz Weigle, UNFCCC Secretariat.

Overall, NDEs emphasized the importance of strengthening the pathway from technology planning and CTCN technical assistance to implementation and scale-up. In particular, participants highlighted the need for technical assistance to generate actionable and financing-ready outputs, with clearer linkages to the GCF and other financing institutions. The discussion also underscored the importance of strong national ownership and coordination among NDEs, NDAs, relevant line ministries, project proponents, and other national stakeholders in moving climate technology priorities from identification to implementation. NDEs further exchanged views on how the CTCN could continue strengthening its support to countries in bridging technology and financing needs.

What countries shared:

The NDEs were provided with an opportunity to reflect on ongoing efforts, common implementation barriers, and the support required to move climate technology priorities toward implementation and financing.

The key observations and recommendations shared by the NDEs and other participants were as follows.

Country / Stakeholder	Key Learning / Recommendation
Regional discussion	NDEs raised concerns regarding the energy consumption and data-protection implications of artificial intelligence (AI) applications . The TEC member acknowledged these concerns and emphasized the importance of considering such risks when applying AI for climate action.
Vietnam	Informed that they are developing an automated greenhouse gas inventory system and climate adaptation technologies for coastal areas , with support from GIZ and JICA. The country is also strengthening regulatory frameworks to de-risk investment, developing direct climate-finance pilots such as a green taxonomy, and completing its NDC 3.0.
Indonesia	Highlighted the potential of digitalization to accelerate implementation , including AI-supported soil analysis for food security, and smart-grid management and water management. A key barrier is dependence on monopolistic foreign technology providers, reinforcing the need to strengthen domestic technological capacity.
Sri Lanka	Mentioned considering establishing a synergistic platform connecting existing processes under the Rio Conventions and the Paris Agreement , while also prioritizing reductions in energy consumption. The country emphasized that finance can be a greater constraint than technology and noted that existing instruments, including green bonds, could be coordinated around common national priorities.
Pakistan	Viewed the BTIP as an opportunity to strengthen indigenous capacity and technology localization . Demonstration-oriented technical assistance should therefore address not only technology deployment, but also intellectual property and investment considerations.
Kyrgyzstan	Noted that the principal challenge is not identifying technologies, but adapting them to the local context and managing increasingly complex projects . NDE coordinators therefore need to develop into project managers. The country also highlighted a

Country / Stakeholder	Key Learning / Recommendation
	translation gap between NDEs and NDAs when connecting technology priorities with financing requirements.
Bangladesh	Recommended incorporating feasibility testing, cost-benefit analysis, and business-model development into technical assistance to strengthen post-TA scale-up. Technical assistance should increasingly support countries in preparing projects for investment.
Maldives	Stressed that climate technology initiatives should be locally owned and designed to facilitate accessible knowledge sharing among national stakeholders.
Malaysia	Recommended reducing the burden faced by NDEs when selecting Network Members by continuing the Network Fair while focusing on technologies with demonstrated results . The country also encouraged the participation of an additional representative from relevant line ministries alongside the NDE.
Thailand	Emphasized the need to identify appropriate financing schemes for scaling up completed technical assistance and to strengthen the linkage between Technology Action Plans and the TM . As NDEs may compete with other national priorities for access to NDAs, a dedicated track for direct NDE-NDA engagement could be considered. CTCN support should also extend to bankable project formulation, including the required technology infrastructure and enabling ecosystem.
Network Members	Network Members emphasized the importance of developing bankable projects through partnerships with national financial institutions , including national banks.

Inclusivity Session

For the scene setting, CTCN Secretariat shared the CTCN TA examples showing how CTCN TAs are implementing the gender mainstreaming, youth engagement, and benefiting local communities and indigenous people. Considering that the examples are from TAs in Africa and Latin America, Asia NDEs and NDE representatives were encouraged to propose TA requests implementing and strengthening these components.

Jun Hyun from Korea Environment Institute (KEI) and Aileen from SusIF presented the results and lessons learned from the Philippines' Climate Resilient Cities Technical Assistance, funded by KOICA from February 2024 to December 2026. The project supports the strengthening of urban climate resilience based on locally identified climate priorities. Six cities were selected as target places, and they delivered lessons to combine technology with policy, governance, institutional capacity and finance. They also highlighted the significance of results of the project as to provide a pipeline of locally owned climate technology requests, strengthen NDE role in identifying and endorsing high-quality TA requests, align local priorities with national adaptation and technology priorities, and demonstrate a replicable model for translating capacity building into TA.

Tamonyos Phongsphetrarat, a member of Thai Youth Climate Council, delivered a motivation speech entitled "Climate Action Has Many Doors". He shared his personal experience based on his engineering background, turning wood waste and discarded fishing nets into composite boards. He asked NDEs to be the guide to help the youth turn their ideas and curiosity into implementation. He highlighted that we need to support youth not only as participants in climate programmes, but as builders of climate solutions through the steps of curiosity, research, prototype development and realities of locally led climate action.

Rishiraj Dutta, a Gender Expert from Asian Disaster Preparedness Center (ADPC), delivered a call-to-action speech on strengthening inclusive, locally led climate solutions. He presented the structural, institutional, cultural, and social barriers faced by women and marginalized groups through a key message, "women and marginalized groups often face interconnected barriers that limit both access to clean energy and participation in decision-making. Even where technologies are available, governance systems frequently fail to include local voices meaningfully." He focused on a truly inclusive energy transition, and shared key strategies for community empowerment and sustainability such as a shift from consultation to co-leadership, investing in local capacity, integrating gender action

plans, and valuing indigenous and local knowledge. He also shared a regional call to action of gender-responsive climate technology systems, locally led adaptation and energy governance initiatives, stronger NDE-NDA coordination for inclusion, financing mechanisms accessible to communities, meaningful youth and Indigenous leadership, regional knowledge sharing across Asia-Pacific.

Based on three key speeches and presentations, NDEs, Network Members, and observers had a fruitful roundtable discussion on the barriers and enabling factors for implementing gender action plans in energy sector, and how CTCN services to engage youth and indigenous people.

Locally-led Climate Action

NDEs emphasized that locally-led climate action should strengthen economic livelihoods, reflect local cultural and knowledge systems, and build on solutions already developed within communities.

1) Economic Livelihoods and Financial Sustainability

NDEs highlighted the importance of linking local climate action with tangible economic benefits:

- **Job security and viable business models:** Locally-led initiatives should create secure livelihood opportunities and incorporate sustainable business models that enable solutions to continue beyond initial project support.
- **Community-based finance:** Lao PDR highlighted the use of **community-led microloans** to support women farmers producing natural fibres for biomass and other productive applications.

2) Traditional Knowledge and Cultural Relevance

Country experiences demonstrated the importance of designing interventions around local knowledge and cultural practices:

- **Recognition and ownership of traditional knowledge:** Sri Lanka emphasized the need to mainstream locally dominant knowledge systems by documenting traditional knowledge while ensuring that ownership remains with the communities that generated it.
- **Culturally adapted technologies:** Maldives noted that modern technologies are often underutilized when they are not adapted to the local cultural context. Technologies should therefore be tailored to community practices and needs rather than introduced as standardized solutions.
- **Data and evidence gaps:** Maldives also identified limited local data coverage as a constraint to understanding community needs and designing context-appropriate interventions.

3) Women and Youth as Solution Holders

NDEs stressed that women and young people should be recognized not only as beneficiaries, but also as existing sources of technological knowledge and solutions:

- **Existing community solutions:** Maldives highlighted that women and youth often already possess practical technological solutions that can be identified, strengthened and scaled.
- **Women-centred feasibility assessment:** Bangladesh emphasized the need to assess the technical, social, and economic feasibility of proposed interventions directly with women to ensure that solutions reflect their realities and priorities.
- **Women-led production systems:** Lao PDR shared the example of women farmers producing natural fibres for biomass, demonstrating how local knowledge, livelihoods and climate technologies can be integrated through community-led approaches.

Useful Links:

- **CTCN Procedures:** https://www.ctc-n.org/sites/default/files/2026-07/Day%201_Session%204.2_Introduction%20to%20NDE%20manual%2C%20Logistical%20support%20scheme%2C%20and%20NDE%20survey.pdf
- **TA portfolio:** https://www.ctc-n.org/sites/default/files/2026-07/Day%201_Session%204.1_Key%20Concept%20Notes%20for%20TA%20-%20Global%20and%20Asia.pdf
- **Logistical Support (LS) template:** <https://www.ctc-n.org/about-ctcn/nde> (scroll down to get to the 'NDE logistical support' section).

Workshop Tour on CTCN procedures

The afternoon of day one took a turn with a deep dive on CTCN procedures. The workshop tours were paired with quick presentations on various key areas including NDE Logistical Support, NDE biannual survey, collaborative Research, Development and Demonstration (cRD&D) demands and reflections, CTCN requests and NDE manual, and post impact of TA. The sessions were designed to support NDEs navigate through various templates, discuss among each other and seek clarification from CTCN.

NDE Logistical Support

NDEs from Pakistan, Malaysia, Vietnam, Maldives, and Kazakhstan asked about the differences between Logistical Support Modalities 1 and 2, how quickly support could be provided, and examples for reference. All expressed their interests in accessing Modality 1. A separate email containing the example of Cambodia's request, concept note, and final report was shared immediately after the session for NDEs' learning and consideration.

NDE Survey

The session provided an overview of the 2026 TM's Biannual NDE Survey, including its purpose and the importance of NDE responses in informing the work of the TM. NDEs exchanged feedback on the survey and sought clarification on whether responses should first be consolidated with the full NDE team in their respective countries. Participants were advised to initiate the survey based on their current understanding and level of engagement with the TM, while also consulting with their NDE teams to validate and complete their responses before submission. NDEs were encouraged to complete the survey by 31 July 2026 and committed to submitting their responses.

CTCN Requests and NDE Manual

NDEs discussed the key elements of a high-quality Technical Assistance request and the role of the NDE in ensuring national ownership and strategic alignment. The discussion emphasized that TA requests should respond to clearly defined national priorities and, be aligned with NDCs and, TNAs and/or TAPs. Strong stakeholder engagement from the early design stage was highlighted as important, including clear identification of the project proponent, beneficiary institutions, relevant line ministries, and other key stakeholders. Participants also discussed the importance of developing actionable TA outputs and considering potential pathways for implementation, scale-up and financing from the outset. NDEs were encouraged to engage closely with CTCN during the request-development process and to seek feedback on draft requests before formal submission.

Post-Implementation Form

According to the Thailand NDE team, the email with the NDE survey and Post-implementation form attachment did not reach them, thus it was resent to them. The first email "Call for Input: NDE Survey and Post-Implementation Form" was sent from economy@un.org on 15 April, 2026. If any NDEs have not received the email, NDEs should notify CTCN, and CTCN will resend it.

Post-implementation form will be used to analyse trends, issues and challenges for TA and TA scale-up. The NDEs' inputs on the form and any suggestions for improvements on the form are highly appreciated.

A question on the prioritisation for TA scale-up was raised. Ongoing/completed TAs have been reviewed by CTCN teams and are prioritised for TA scale-up discussion on a case-by-case basis. CTCN has been contacting various potential financing partners for TA scale-up. However, strong ownership and leadership by NDE and project proponents are required to proceed with the discussion on TA scale-up. Though it is limited, some funding under CTCN may be available to develop proposals for further financing for TA scale-up. Thus, it is suggested to include identifying potential financing partners and developing TA scale-up funding proposal under TA activities so that the implementing partner can also assist the process. CTCN facilitates to identify potential financing partners, connects those partners with NDEs and project proponents and supports discussions with partners.

CRD&D

The NDE of Sri Lanka and NDE representative of Malaysia participated in the group. The concept of cRD&D and CTCN activities on cRD&D were introduced, and how the cRD&D proposals can be implemented through the CTCN TA modality was also disseminated. To provide a good example for potential cRD&D proposals, the learning visit on green hydrogen production and fuel cell, scheduled to be held from 14 to 16 July 2026, was introduced. CTCN encouraged NDEs to communicate with suitable researchers and professors to identify impactful project on cRD&D towards joint RD&D collaboration and endogenous capacity building in RD&D in each country.

ANNEX I

In-person participants					
Country / Organization	First Name	Last Name	Title	Affiliation	Position
Bangladesh	Nurun	Nahar	Dr	Ministry of Environment Forest and Climate Change	Additional Secretary
Indonesia	Lyta	Permatasari	Dr	Ministry of Environment and Forestry	Community Development Analyst
Japan	Ryosuke	Tanaka	Mr	Ministry of Economy, Trade and Industry (METI)	Section Chief, Global Environmental Affairs Office
Kyrgyzstan	Aigerim	Kurmanova	Ms	Climate Finance Center under the Cabinet of Ministers of the Kyrgyz Republic	Senior Expert, Project Preparation Department
Lao PDR	Vathsouda	Nilathsay	Ms	Ministry of Agriculture and Environment	Deputy Director of Division, Department of Environment
Malaysia	Rudy	Eruwan	Dr	Ministry of Natural Resources, Environmental Sustainability	Senior Assistant Secretary, Climate Change Division
Maldives	Amjad	Abdullah	Mr	Ministry of Tourism and Environment	Director General
Pakistan	Imran	Khan	Mr	Ministry of Climate Change and Environmental Coordination	Assistant Director
Sri Lanka	Leel	Randeni Pidunwaththage	Mr	Ministry of Environment	Director (Climate Change)
Thailand	Surachai	Sathitkunarat	Dr	Ministry of Higher Education, Science, Research and Innovation	President, Office of National Higher Education Science Research and Innovation Policy Council
Timor-Leste	Luis	Dos Santos Belo	Mr	Ministry of Tourism and Environment	Head, Ozone Depleting Substances Control Department, National Directorate for Climate Change
Uzbekistan	Sanjarbek	Ibragimov	Mr	Uzhydromet (Hydrometeorological Service of Uzbekistan)	Chief Specialist
Vietnam	Quang Huy	Luong	Mr	Ministry of Natural Resources and Environment	Head, GHG Emission Management, Department of Climate Change
CTCN Secretariat	Ariesta	Ningrum	Ms	CTCN Secretariat	Director
CTCN Secretariat	Tomoko	Furusawa	Ms	CTCN Secretariat	Senior Programme Management Officer, Head of Partnership and Liaison Office
CTCN Secretariat	Suil	Kang	Dr	CTCN Secretariat	Coordination Officer
CTCN Secretariat	Jeawon	Kim	Dr	CTCN Secretariat	Capacity Building and Network Engagement Specialist
CTCN Secretariat	Hoyoung	Jo	Mr	CTCN Secretariat	Climate Technology Specialist
CTCN Secretariat	Sebin	Lee	Mr	CTCN Secretariat	Administrative Assistant
UNFCCC Secretariat	Moritz	Weigel	Mr	UN Climate Change Secretariat	Manager, Technology Sub-Division
Thailand (Host country)	Wongkot	Wongsapai	Assoc. Prof.	Ministry of Higher Education, Science, Research and Innovation	Vice President, Office of National Higher Education Science Research and Innovation Policy Council
Thailand (Host country)	Saravane	Singtong	Dr	Ministry of Higher Education, Science, Research and Innovation	Division Director, Office of National Higher Education Science Research and Innovation Policy Council
Thailand (Host country)	Chananphat	Pheerawatpiti	Ms	Ministry of Higher Education, Science, Research and Innovation	Manager, Office of National Higher Education Science Research and Innovation Policy Council
Thailand (Host country)	Sutisa	Samittiwetcha	Dr	Ministry of Higher Education, Science, Research and Innovation	Researcher, Office of National Higher Education Science Research and Innovation Policy Council

Thailand (Host country)	Chaniporn	Ruangrit	Ms	Ministry of Higher Education, Science, Research and Innovation	Policy Developer, Office of National Higher Education Science Research and Innovation Policy Council
Thailand (Host country)	Sirilak	Charoenram	Ms	Ministry of Higher Education, Science, Research and Innovation	Researcher, Office of National Higher Education Science Research and Innovation Policy Council
Thailand (Host country)	Jitsuna	Darachai	Ms	Ministry of Higher Education, Science, Research and Innovation	Policy Analyst, Office of National Higher Education Science Research and Innovation Policy Council
Thailand (Host country)	Chavisara	Wiengchai	Ms	Ministry of Higher Education, Science, Research and Innovation	Officer, Office of National Higher Education Science Research and Innovation Policy Council
Thailand (Host country)	Patcharin	Najai	Ms	Ministry of Higher Education, Science, Research and Innovation	Manager Division of Corporate Communications and Secretariat, Office of National Higher Education Science Research and Innovation Policy Council
Thailand (Host country)	Kotchawan	Pakkruak	Ms	Ministry of Higher Education, Science, Research and Innovation	Manager Division of Corporate Communications and Secretariat, Office of National Higher Education Science Research and Innovation Policy Council
Thailand (Host country)	Krich	Wongjun	Mr	Ministry of Higher Education, Science, Research and Innovation	Senior Officer Division of Corporate Communications and Secretariat, Office of National Higher Education Science Research and Innovation Policy Council
Thailand (Host country)	Laor-on	Jirasirawat	Ms	Ministry of Higher Education, Science, Research and Innovation	Project Coordinator Division of Corporate Communications and Secretariat, Office of National Higher Education Science Research and Innovation Policy Council
UNEP ROAP	Subrata	Sinha	Mr	UNEP ROAP	Regional Environmental Affairs Officer
Technology Executive Committee	Jingnan	Hu	Mr	Chinese Research Academy of Environmental Sciences	TEC member
UNIDO	Haruka	Yoshida	Ms	UNIDO, Division of Climate Innovation and Montreal Protocol	Industrial Development Expert
Gender Expert	Rishiraj	Dutta	Dr	Asian Disaster Preparedness Center	Program Manager (Nature-based Solutions)
Youth negotiator	Tamonyos	Phongsphetarat	Mr	Thai Youth Climate Council	Member
Network member - Korea	JunHyun	Park	Dr	Korea Environment Institute	Director
Network Member - US	Andrew	Chang	Mr	New Energy Nexus	CEO
Network Member - Thailand	Chalerm	Kokanutaporn	Mr	Thai Eastern Bio Power Co., Ltd	CEO
Network Member - Thailand	Prajak	Kittirattanaviwat	Mr	Charoenchai Transformation Co., Ltd	Managing Director (Innovation)
Network Member - Thailand	Atchara	Poommee	Ms	PAC Corporation (Thailand) Co., Ltd	CEO&Founder
Network Member - Sweden	Carolina	Hedman	Ms	Globalyx	
Online participants					

Tajikistan	Sunatullo	Pirov	Mr	Agency for Hydrometeorology, CEP under the Government of the Republic of Tajikistan	Deputy Director
The Philippines	Robert Eric	Borje	Mr	Climate Change Commission	Vice Chairperson and Executive Director
The Philippines	Romell Antonio O.	Cuenca	Mr	Climate Change Commission	Deputy Executive Director
The Philippines	Christian Icon	Tagle	Mr	Climate Change Commission	Executive Assistant III
Israel	Zavi	Apfelbaum	Ms	Ministry of Environmental Protection	Head of Global Partnership Development
Türkiye	Tugba Dogan	Guzel	Mr	The Scientific and Technological Research Council of Turkey - Marmara Research Center (Environment and Clean Production Institute)	Expert Researcher
Network member - Korea	Aileen	B. Leycano	Ms	SusIF	
CTCN PALO	Hyeonmin	Kwon	Ms	CTCN PALO	CTCN PALO Incheon City Volunteer
CTCN PALO	Jihu	Yun	Mr	CTCN PALO	CTCN PALO Incheon City Volunteer
CTCN PALO	Taeyeong	Kim	Ms	CTCN PALO	CTCN PALO Incheon City Volunteer

ANNEX II – Group Photos



Link to the social media post:

<https://www.linkedin.com/feed/update/urn:li:activity:7480260067792142336/>