

UN CTCN 2026 Joint Programme: NDE Forum, Capacity Building on Integrating Energy Technologies, and NDE-NDA coordination in Asia

7-10 July, In-person (with Online availability), Pullman Pattaya Hotel G, Pattaya, Thailand

Background

NDE Forum

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 Work¹, 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 and as one of its activities it organizes a Regional Forum for the National Designated Entities from Asian countries on an annual basis. In parallel, the Network Engagement Strategy proposed during 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 interaction.

Capacity Building on Integrating Energy Technologies

The year 2026 marks the fourth year of CTCN's 3rd Programme of Work (PoW), which places increased emphasis on moving from discrete technology support toward integrated, system-level transformation pathways. This direction takes into consideration COP/CMA decisions, including the AI4ClimateAction 2024-2027 workplan and the Belém Technology Implementation Programme, which emphasizes demand-driven implementation, capacity building, and a more complete technology cycle to support deployment and diffusion.

CTCN's 2026 Capacity Building Programme focuses on system transformation, understood as coordinated change across technologies, institutions, and decision-making processes to deliver lasting climate impact. Feedback from the 2025 thematic programmes on Climate Finance and Co-creation reinforces the need to *move beyond the status quo, to improve livelihoods, and to measure progress*. Together, these perspectives underscore that impact is understood by NDEs as a system-level outcome, achieved when capacity building enables coordinated change across interconnected layers.

Analysis of NDCs, TNAs, and TAPs shows that Asian countries prioritize technologies in **agriculture** including crop diversification, improved varieties, and rooftop rainwater harvesting and **energy**, particularly energy efficiency in transport, power generation, optimal energy consumption in plantations, and grid-connected solar energy. These priorities indicate readiness for **system transformation through integration**, as technologies are increasingly linked to existing production, energy, and planning systems rather than deployed in isolation. Notably, **three countries**² explicitly reference plans to apply **AI-related technologies** for

¹ https://www.ctc-n.org/sites/default/files/resources/CTCN%20Third%20Programme%20of%20Work%202023-2027_2.pdf

² Cambodia, UAE, Viet Nam



mitigation and adaptation, signaling emerging institutional readiness to move from automation toward data-driven and adaptive system management.

The 2026 workshop builds on this evolution by focusing on Integrating Energy Technologies. The curated sessions will inform frameworks and concepts supporting in integrating emerging and proven energy technologies at a national and a regional level, as well as learn lessons from selected project cases.

NDE-NDA Coordination

Under the intergovernmental climate change process, Parties to the UNFCCC have underlined the importance of well-functioning and strengthened collaboration between national designated authorities (NDAs) for the Green Climate Fund (GCF) and NDEs. Parties also encouraged the enhanced engagement of the CTCN and the GCF, including through the strengthening of NDE-NDA collaboration.

An in-session workshop, held in 2024 as a response to guidance and mandates from the COP, the TEC, the CTCN, the GCF, and the GEF, discussed progress in establishing and strengthening institutional and operational linkages between the TM and the FM. The workshop highlighted remaining challenges in linking mechanisms as a) lack of capacity to prepare scalable proposals and b) coordination gaps. In addition to this, national coordination support provided between 2023 and 2025 highlighted several key lessons. First, strong co-ownership by Network members and Accredited Entities is essential for projects designed by national focal points to be scaled up and implemented. Second, *countries' readiness to link CTCN technical assistance with GCF projects varies depending on their governance structures*. Third, the timing of NDE-NDA support must align with GCF's board meeting schedules and national fiscal cycles to ensure effective implementation. This agenda addresses the second lessons learned to fill the gap of effective coordination support.

Donors and Parties recognise this challenge, thus, in March 2026, the Japanese government provided funding to UNEP CTCN to strengthen TM-FM linkages. As one of the activities under the Japanese government's funding, UNEP CTCN is organising NDE-NDA coordination meeting.

Objectives

Three objectives of this joint programme are to:

- a) Share experiences and best practices from CTCN technical assistance in the region
- b) Enhance knowledge on integrating energy systems through AI, and
- c) Support national coordination in identifying and discussing scalable climate technology options, considering available modalities of the CTCN, the GCF, and MDBs

Hosting country

Thailand, Office of National Higher Education Science Research and Innovation Policy Council, Ministry of Higher Education, Science, Research and Innovation

Hosting organizations

UN CTCN (Climate Technology Center & Network, www.ctc-n.org: The implementation arm of Technology Mechanism of UNFCCC) and Green Climate Fund (GCF, <https://www.greenclimate.fund>: The operation arm of Finance Mechanism of UNFCCC)

Target audience

Prioritizing 10 NDEs who have mentioned digitalization/AI in their NDCs and classified as LDCs and/or low-income, low-middle-income countries (i.e., Bangladesh, Cambodia, Lao People's Democratic Republic (Laos), Myanmar, Nepal, Timor-Leste, Viet Nam)

Venue

Infinity Ballroom, Pullman Pattaya Hotel G

Anticipated sessions

- NDE Forum: Information on COP30, peer-to-peer learning on CTCN procedures and services, and bilateral with CTCN
- Capacity Building: Information on AI and Energy related concepts, frameworks, and technology cases
- NDE-NDA coordination: Information on country status, successful linkage examples, and workshop on climate narrative and ToC

Proposed Agenda

Plenary session
Workshop format
Bilateral
Offsite event

Day 1 - Asia NDE Forum (Tuesday 7th July)

Arrival and Registration	
08:30~09:00	Arrival and Registration
Official Opening and Introduction to the Joint Programme	
Moderator: NDE of Thailand	
09:00~09:05	Welcome Remarks Mr Yodchanan Wongsawat, Minister, Ministry of Higher Education, Science, Research and Innovation (in-person/recording TBC)
09:05~09:10	Opening Remarks Ariesta Ningrum, Director, CTCN
09:10~09:15	Remarks Dr Surachai Sathitkunararat, NDE of Thailand
09:15~09:20	Congratulatory Remarks (recording) UNEP ROAP
09:20~09:25	Group photo
09:25~09:50	NDEs Round of Introductions <ul style="list-style-type: none"> • NDE/NDE representative: Name, country • Role of the NDE in their countries Introduction of the CTCN and TEC Teams
09:50~10:00	Overview of the Agenda Tomoko Furusawa, Senior Programme Management Officer, CTCN
Session 1: Updates on the work of the UNFCCC Technology Mechanism	
Moderator: Suil Kang, Coordination Officer, CTCN	

10:00~10:15	Technology Development and Transfer under the UNFCCC Moritz Weigel, Manager, Technology Sub-Division, UN Climate Change Secretariat
10:15~10:30	CTCN Activities and Outlook for 2026-2027 Tomoko Furusawa, Senior Programme Management Officer, CTCN
10:30~11:00	Q&A and Coffee break (20 minutes)
11:00~11:20	TEC Activities and Outlook for 2026-2027 TBC, TEC Member
11:20~11:30	Q&A

Session 2: Roundtable Discussion with NDEs

Moderator: Suil Kang, Coordination Officer, CTCN

11:30~11:45	Summary of 2026 Roundtable and Framing Tomoko Furusawa, Senior Programme Management Officer, CTCN
11:45~13:00	Roundtable Discussion with NDEs Moderated by Ariesta Ningrum, CTCN Director, AB member, and TEC/UNFCCC Secretariat Topics: <ul style="list-style-type: none"> - BTIP - TM-FM linkages (preface) - CTCN's independent review - Hosting agency

Lunch break – 75 minutes

Session 3: Strengthening Technical Assistances – Youth, Gender, and Indigenous Peoples

Moderator: Suil Kang, CTCN

14:15~14:45	Key Concept Notes for Technical Assistance for 2026-27 - Global and Asia Hoyoung Jo, Climate Technology Specialist, CTCN
14:45~15:15	Panel Discussion Local representatives <ul style="list-style-type: none"> - TBC, Group of Young Negotiators of Thailand - TBC, Gender Mainstreaming - TBC, Indigenous Peoples and Local Communities
15:15~15:30	Q&A

Coffee break – 15 minutes

Session 4: CTCN Procedures

Moderators: CTCN Team

15:45~16:30	Open house format <ul style="list-style-type: none"> - The Open House format is an interactive dialogue designed to foster learning and action. - Designated rapporteurs will provide a topic-related guide, address questions, and support the creation of outputs. - Participants will choose and rotate through thematic stations focused on key CTCN operations.
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	<p><i>Topic 1: Logistical Support (Rapporteur: Jeawon Kim)</i></p> <ul style="list-style-type: none"> - If you join this table, you will learn how NDEs can use CTCN logistical support to strengthen their national role, convene stakeholders, and build a pipeline of climate technology projects, as well as support follow-up actions after project completion, drawing on recent examples of Cambodia and Somalia. - NDEs are encouraged to draft LS form and receive direct feedback from CTCN. <p><i>Topic 2: Post Impact of TA (Rapporteur: Tomoko Furusawa)</i></p> <ul style="list-style-type: none"> - If you join this table, you will be introduced to the new CTCN post-implementation monitoring and evaluation form, providing guidance on how to complete it effectively and highlighting its benefits for tracking results, learning, and follow-up. - NDEs are encouraged to understand the post-implementation form and if any TA is/are near completion, start drafting under CTCN's consultative support. <p><i>Topic 3: NDE Survey (Rapporteur: Sebin Lee)</i></p> <ul style="list-style-type: none"> - If you join this table, you will learn other NDEs' feedback shared to the TM and have time to complete the 2026 TM NDE Survey. <p><i>Topic 4: CTCN requests and NDE Manual (Rapporteur: Hoyoung Jo)</i></p> <ul style="list-style-type: none"> - If you join this table, you will learn about the latest updates in the manual about your role as an NDE to provide a high-quality CTCN request, focusing on alignment with NDCs, TNAs and TAPs, strong stakeholder engagement, and national ownership. - NDEs are encouraged to receive CTCN's feedback on under-design TA request (if any). <p><i>Topic 5: CRD&D (Rapporteur: Suil Kang)</i></p> <ul style="list-style-type: none"> - If you join this table, you will be informed of cRD&D support activities - NDEs are encouraged to share feedback on previous cRD&D activities and inform preferred thematic area for cRD&D.
16:30~17:00	Interactive Rapporteur for Open House Discussion Validation
Host country – Welcome dinner	
18:00~	TBC

Day 2 - Capacity Building on Integrating Energy Technologies (Wednesday 8th July)

08:00~09:30	Transfer from hotel to Z: Meeting point TBD
Opening and Overview of the Workshop	
09:30~09:35	Opening Remarks TBC, AB member
09:35~09:45	Overview of the Workshop with a live survey on System Transformation Jeawon Kim, Capacity Building and Network Engagement Specialist, CTCN
Site visit at Thai Eastern Group Holdings PCL	
10:00~10:15	TEGH is one of the major integrated renewable energy producers of biofuels in the Eastern Economic Corridor (EEC). The presentation will include their main programmes and areas of activities.
Coffee break – 15 minutes	
10:30~11:30	Tour 1 – Organic Waste Management & Bio Energy Plant
11:30~13:00	Tour 2 – Renewable Energy Utilization Presentation by tbd on efficiency, efficacy, and effectiveness of Renewable Energy
Lunch Break – 75 minutes	
14:15~15:00	Tour 3 – R&D Centre & Bio Electricity Plant & Waste Heat Utilization
15:00~16:00	Reflections, comments, and summary among NDEs
~17:00	Transfer from Z to X <i>Drop-off point: tbd</i>

Day 3 - Capacity Building on Integrating Energy Technologies (Thursday 9th July)

Session 1: Reframing System Transformation in Asia's Energy Context	
Moderator: Jeawon Kim, CTCN	
09:00~09:15	Snapshot of Asia Energy Transition Jochem Zoetelief, Portfolio Manager, UNEP GEF
09:15~09:30	Key Structure of Energy in Asia Andrew Chang, Chief Executive Officer, New Energy Nexus
09:30~10:30	<p>Reflection on the System Transformation</p> <p>Roundtable discussion with guiding questions:</p> <p>Starting with Silent Thinking on Who “blocks” renewable energy-related decisions in our country?</p> <p>In a small group, discuss when technology adoption fails.</p> <p>NDEs will be asked to identify policy, technological, regulatory failures in a sticky note.</p> <p>Two guiding questions:</p> <ol style="list-style-type: none"> 1) Is it a technology problem or an issue of approvals, tariffs, and regulation? 2) How far can the NDE intervene within the system?
10:30~11:00	Roundtable discussion on the reflection and Coffee break (20 minutes)
Session 2: CTCN Network Fair – Members with Energy Technologies and Artificial Intelligence	
Moderator: Jeawon Kim, CTCN	
11:00~13:00	<p>Network Fair</p> <p><i>A curated matchmaking space where network members can showcase and pitch their solutions directly to NDEs in a structured and time-efficient setting. This would allow the NDEs to explore available technology solutions aligned with their priorities, while enabling network members to gain visibility, feedback, and potential pathways for collaboration.</i></p> <p>Confirmed/Tentative Network members/Partners (max 15):</p> <ul style="list-style-type: none"> • Thailand: TBC, TBC, TBC • Regional: CAST (tbc) • International: UCL (tbc), New Energy Nexus, Climate Probity <p>Bilateral interactions with:</p> <ul style="list-style-type: none"> • CTCN Secretariat • UNFCCC Secretariat

Lunch break – 75 minutes

Session 3: Learning Energy System Transformative Technologies

Moderator: Jeawon Kim, CTCN

14:15~14:30	Transitioning to net zero and renewable energy sources – Gaps in Policies and Opportunities for Implementation TBC, TEC member / UNFCCC
14:30~15:15	Technology Discussion Activity <i>Facilitated by UNIDO</i> Grouped tables work through; <ul style="list-style-type: none"> • All types of energy supply technologies • All types of energy storage technologies <p>Guiding questions be:</p> <ul style="list-style-type: none"> - Why storage technologies failed - Where renewable energy could not be integrated into the grid - Where digital energy technologies were blocked by policy <p>Mark the points where the technology was right, but the system was wrong.</p>

Coffee break – 15 minutes

Quiz on TM-FM linkages

Host country – Cultural dinner

18:00~	TBC
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Day 4: NDE-NDA Coordination meeting (Friday 10th July)

Opening	
Moderator: Tomoko Furusawa, CTCN	
09:00~09:05	Remarks Ariesta Ningrum, Director, CTCN
09:05~09:10	Remarks TBC, METI Japan
09:10~09:20	Round of introduction
Group Photo	

Session 1: History and current status of TM-FM linkages	
Moderator: Ariesta Ningrum, CTCN	
09:30~10:15	CTCN's reflection on TM-FM linkages Reflection of Lao PDR case TBC, Lao PDR NDE and NDA Progress with Pakistan case TBC, GGGI
10:15~10:30	GCF's reflection on TM-FM linkages – Lessons learned and best practices Hansol Park, Climate Policy Specialist, GCF

Coffee break – 15 minutes

Session 2: GCF Activities and Outlook for 2026-2027	
Moderator: Hoyoung Jo, CTCN	
10:45~11:05	Strategy and Asia portfolio overview Ivo Besselink, Senior Sector Specialist - Energy and Industries, Department of the Asia and the Pacific Region, GCF
11:05~11:25	Country Status on Readiness 2.0 AJ Untalan, Readiness & Preparatory Support Programme Consultant, GCF
11:25~11:45	Systems approach: Climate pathways Bapon Fakhruddin, Climate Investment Principal, Department of the Asia and the Pacific Region, GCF
11:45~12:30	Q&A

Session 3: Moving beyond linkages with the UNFCCC Financial Mechanism	
Moderator: Tomoko Furusawa, CTCN	
12:30~13:00	Multilateral Bank – Vision, strategy, and ideas Dr. Murtaza Syed, Acting Global Head of Ecosystem and Climate Economics, AIIB Q&A

Lunch break – 75 minutes

Session 4: Parallel Session on Deep-Dive Clinic

Moderator: Jeawon Kim, CTCN

<p>14:40~16:00</p>	<p>Scaling up completed CTCN TAs</p> <p><i>Country representatives to sit on a clinic session with MDBs, IOs, and CTCN to ideate on the usage of TA outputs for a large proposal development</i></p> <ul style="list-style-type: none"> - Kazakhstan - Uzbekistan - Maldives - Cambodia - Thailand 	<p>Strengthening technology components in Readiness with CTCN TA</p> <p><i>Country representatives to sit on a clinic session with GCF and CTCN to ideate on the possibility of CTCN TA activities complementing the overall Readiness outputs and outcomes</i></p> <ul style="list-style-type: none"> - TBC - TBC - TBC - TBC - TBC - TBC
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Way forward and Closing

Moderator: Suil Kang, CTCN

<p>16:00~17:00</p>	<p>Feedback from NDEs, NDAs, and Key stakeholders</p>
<p>17:00~17:05</p>	<p>Closing Remarks Tomoko Furusawa, CTCN</p>