

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 CTCN and GCF, including through the strengthening of NDE-NDA collaboration.

An in-session workshop³, held in 2024 as a response to guidance and mandates from the COP, TEC, CTCN, GCF, and GEF, discussed progress in establishing and strengthening institutional and operational linkages between the TM and the Financial Mechanism (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 by CTCN between 2023 and 2025 highlighted several key lessons. First, successful scale-up requires early and sustained co-ownership among national stakeholders, Network members, and Accredited Entities. 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 CTCN, GCF, and other development financing partners of GCF.

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)

³ <https://unfccc.int/documents/640968>

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 financing pathways

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 theme setting to the Joint Programme

Moderator: NDE of Thailand

09:00~09:05	Welcome Address Dr Surachai Sathitkunarat, President of NXPO, NDE of Thailand
09:05~09:10	Opening Remarks Ariesta Ningrum, Director, CTCN
09:10~09:15	Congratulatory Remarks Mr. Subrata Sinha, Deputy Regional Director a.i., UNEP ROAP
09:15~09:30	High-level Remarks Prof. Dr. Yodchanan Wongsawat, Deputy Prime Minister and Minister of Higher Education, Science, Research and Innovation (MHESI) (Recording)
09:30~09:35	Group photo
09:35~10:00	NDEs Round of Introductions • NDE/NDE representative: Name, country • Role of the NDE in their countries Introduction of the CTCN and TEC Teams
10:00~10:10	Overview of the Agenda Suil Kang, Coordination Officer, CTCN

Session 1: Updates on the work of the UNFCCC Technology Mechanism

Moderator: Suil Kang, Coordination Officer, CTCN

10:10~10:25	Technology Development and Transfer under the UNFCCC Moritz Weigel, Manager, Technology Sub-Division, UN Climate Change Secretariat
10:25~10:40	Coffee Break

10:45~11:00	CTCN Activities and Outlook for 2026-2027 Tomoko Furusawa, Senior Programme Management Officer, CTCN
11:00~11:20	Updates from the TEC rolling workplan Activities and Outlook for 2026-2027 Jingnan Hu, TEC member
11:20~11:30	Q&A

Session 2: Roundtable Discussion with NDEs

Moderator: Tomoko Furusawa, Senior Programme Management Officer, CTCN

11:30~12:30	Roundtable Discussion with NDEs Moderated by Ariesta Ningrum, CTCN Director and Moritz Weigel, UNFCCC/TEC Secretariat Topics and suggested guiding questions: 1) Belem Technology Implementation Programme (BTIP) Q1. Since the adoption of BTIP, what opportunities do you see for strengthening implementation of climate technologies in your country, and where has the NDE role been most valuable? Q2. What are the main barriers preventing countries from moving from technology planning and technical assistance to large-scale deployment and diffusion of climate technologies? Q3. Have you seen successful approaches (either nationally or from other countries) that help bridge the gap between technology identification and implementation? 2) TM-FM linkages (preface to Day 3 and 4) Q4. Where do the greatest disconnects remain between climate technology needs and access to finance? 3) CTCN's independent review Q5. If you could recommend one improvement to strengthen the relevance and effectiveness of the CTCN for all countries, what would it be? 4) Hosting Agency Q6. What capabilities, partnerships, or services should the hosting agency prioritize to ensure the CTCN remains fit for purpose over the next decade?
-------------	---

Lunch break – 60 minutes

Session 3: Strengthening Inclusive, Locally Led Climate Solutions

Moderator: Suil Kang, CTCN

13:30~13:40	From Local Priorities to Project Concepts: KEI's Experience in the KOICA Philippines Urban Climate Resilience Project Jun Hyun Park, Korea Environment Institute (KEI) & Aileen B. Leycano, SusIF
13:40~13:45	Motivational Speech Mr. Tamonyos Phongsphetrarat, Thai Youth Climate Council, Member of Thai Youth Climate Council
13:45~13:50	Call-to-Action Speech

	Dr. Rishiraj Dutta, Gender Expert, Asian Disaster Preparedness Center
13:50~14:10	Roundtable Discussion with local representatives Suggested guiding questions (as per the UNFCCC guidebook on Just transition) 1) Implementing Gender Action Plan in Energy Sector Q1. What specific barriers do women and marginalized groups face in accessing clean energy or participating in decisions about how local energy systems are designed and managed? Q2. What would need to change for the energy transition to genuinely improve livelihoods particularly for women? 2) Engaging Youth and Indigenous Peoples in CTCN services Q1. How can climate technology initiatives and CTCN services be designed and delivered so that youth and Indigenous Peoples are not only consulted, but become active partners in identifying needs, shaping solutions, and driving implementation?

Session 4: Updates on CTCN Procedures and Technical Assistance

Moderator: Suil Kang, CTCN

14:10~14:45	From TA Ideas to Scalable Climate Technology Pipelines in Asia Hoyoung Jo, Climate Technology Specialist, CTCN
14:45~15:15	Introduction to NDE manual, Logistical support scheme, and NDE survey Hoyoung Jo, Climate Technology Specialist, CTCN
15:15~15:30	Q&A

Coffee break – 15 minutes

Session 5: CTCN Procedures

Moderators: CTCN Team

15:45~16:30	Open house format - 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. <i>Topic 1: Logistical Support (Rapporteur: Jeawon Kim)</i> - 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. <i>Topic 2: Post Impact of TA (Rapporteur: Tomoko Furusawa)</i>
-------------	--

	- 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. <i>Topic 3: NDE Survey (Rapporteur: Sebin Lee)</i> - 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 (Deadline 31st July, Sri Lanka and Kuwait completed). <i>Topic 4: CTCN requests and NDE Manual (Rapporteur: Hoyoung Jo)</i> - 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). <i>Topic 5: CRD&D (Rapporteur: Suil Kang)</i> - 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	Summary - Open House Discussion

Host country – Welcome dinner and Networking

18:00~	Dam Restaurant Hosted by NXPO to welcome participants and encourage informal networking with a wonderful view of Pattaya City. We will meet at a restaurant located approximately 30 minutes from the meeting venue.
--------	--

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

08:00~09:30	Transfer from hotel to Thai Eastern Group Holdings PCL – Pick-up point: Hotel lobby Address: 171 M.2 Khaosok, Nongyai, Chonburi 20190 Thailand
Opening and Overview of the Workshop	
09:30~09:35	Group Photo
09:35~09:45	Welcome Remark Chalerm Kokanutaporn Chief of Executive, Director
09:45~09:55	Overview of the Workshop with a live survey on System Transformation Jeawon Kim, Capacity Building and Network Engagement Specialist, CTCN
09:55~10:15	Powering Asia: The Architecture of Energy in the Deployment Decade Andrew Chang, Chief Executive Officer, New Energy Nexus Q&A
10:15~10:30	Coffee Break

Site visit at Thai Eastern Group Holdings PCL	
10:30~11:30	TEGH Presentation: Turning Environmental Challenges into Business Opportunities Overview of TEGH's business, Organic Waste Management & Biogas Technology, Including Q&A Session by TEGH representative
11:30~12:00	Innovation in Action: R&D and Sustainable Technology Showcase Research, Technology and Business Innovation Showcase
12:00~13:00	Lunch Break
13:00~14:00	Khaosok Valley Model: 1st Nature Positive Industrial Estate: Circularity Hub of the Eastern Economic Corridor (EEC) Site Visit to Low Carbon Rubber Factory (EQR), Organic Waste Management & Biogas Plant (TEBP), and Renewable Energy Facilities (TEIL)
14:00~14:15	Coffee Break
14:15~14:45	Reflections, comments, and summary among NDEs
14:45~17:00	Transfer from TEGH to Pullman Pattaya Hotel G Drop off point at lobby hotel Logistic related note. If there are more than 25 participants, they will be divided into two groups to follow the activities according to the schedule.

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

Arrival and Registration	
08:30~09:00	Arrival and Registration
Welcoming New Participants	
09:00~09:05	Recap of Day 1 and 2
09:05~09:20	Round of Introductions - NDE/NDE representative: Name, country - NDA/NDA representative: Name, country - Network members: Name, affiliation
Session 1: Reframing System Transformation in Asia's Energy Context	
Moderator: Jeawon Kim, CTCN	
09:20~09:45	Energy Transition in Asia Manoj Kumar, UNEP GEF Q&A
09:45~10:00	From Country Needs to Finance-Ready Projects: Lessons from Japan's CTCN Technical Assistance Experience Mr. Ryosuke Tanaka, Global Environmental Affairs Office, METI, Japan
10:00~10:40	Reflection on the System Transformation Roundtable discussion with guiding questions: Starting with Silent Thinking on Who "blocks" renewable energy-related decisions in our country? In a small group, discuss when technology adoption fails. NDEs and NDAs will be asked to identify policy, technological, regulatory failures in a sticky note. Two guiding questions: 1) Is it a technology problem or an issue of approvals, tariffs, and regulation? 2) How far can the NDE and NDA intervene within the system?
10:40~11:00	Roundtable discussion on the reflection and Coffee break (20 minutes)
Session 2: Network Fair – Members with Energy Technologies and Artificial Intelligence	
Moderator: Jeawon Kim, CTCN	
11:00~13:00	Network Fair <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/NDAs to explore available technology solutions aligned with their priorities, while enabling network members to gain visibility, feedback, and potential pathways for collaboration.</i>

	Confirmed Network members/Partners (N=10): - Thailand: Charoenchai Transformation Co., Ltd., TEGH, PAC Corporation (Thailand) Co., Ltd. - Regional: Wi.Plat, mistEO Private Limited, AIT - International: New Energy Nexus, Climate Probit, Zephyr consulting, Globalyx Bilateral interactions with: - CTCN Secretariat - UNFCCC/TEC Secretariat
--	---

Lunch break – 60 minutes

Session 3: Learning Energy System Transformative Technologies Moderator: Jeawon Kim, CTCN	
14:00~14:15	Transitioning to net zero and renewable energy sources – Gaps in Policies and Opportunities for Implementation Jingnan Hu, TEC member
14:15~15:00	Technology Discussion Activity <i>Facilitated by UNIDO</i> 5-minute introduction of the session, explaining the objective, guiding questions 10-minute silent thinking (individual work): - For NDEs, based on the gaps/challenges identified in the morning session, what do you need to overcome those gaps/challenges to deploy renewable energy in your country? What kind of CTCN TA projects are needed to promote renewable energy deployment? - For NDAs, based on the gaps/challenges identified in the morning session, how can NDA coordinate with NDE to overcome gaps/challenges, and deploy renewable energy? 30-minute group discussion. Group divides into NDE groups and NDA groups. Using the same guiding questions for the silent thinking, discuss among NDEs/NDAs.
15:00~15:15	Reflection from each group

Coffee break – 15 minutes

Session 4: Financing Energy Transition and Premier to TM-FM linkage Moderator: Jeawon Kim, CTCN	
15:30~15:50	Systemic Approach: Climate Finance Pathway (online) Bapon Fakhruddin, Climate Investment Principal, Department of the Asia and the Pacific Region, GCF
15:50~16:50	Financing Discussion

	Facilitated by GCF (Ivo, AJ) and CTCN (Tomo, Hoyoung) with Overall facilitator as Jeawon Grouped tables to take sequential activities; - Phase 1 – Financing Matchmaking (20minutes) - Phase 2 – Financing Sequencing (25minutes) - Phase 3 – Institutional Friction Analysis (15minutes)
16:50~17:00	Miniquiz on TM-FM Linkages

Host country – Cultural dinner and Networking

18:00~	Moom Aroi Na Kluea Address: 83 4 Na Kluea 4 Alley, Muang Pattaya, Bang Lamung District, Chon Buri 20150, Thailand Hosted by NXPO, featuring a dinner highlighting local cuisine in a beachfront setting in Pattaya. Participants will relocate to the restaurant independently.
--------	--

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 Mr. Ryosuke Tanaka, Global Environmental Affairs Office, METI, Japan
09:10~09:20	Flow of Day 4
Group Photo	

Session 1: Current Status of TM-FM linkages	
Moderator: Ariesta Ningrum, CTCN	
09:30~10:15	(10-minute) CTCN's reflection on TM-FM linkages Ariesta Ningrum, CTCN (5-minute) Country-owned: Reflection of Ghana TA to FP265 Tomoko Furusawa, CTCN (15-minute) Country-owned: Reflection of Lao PDR TA to GEF Mr. Alounxay Onta, Director of International Organization Cooperation Division, Department of Planning and Cooperation, Ministry of Agriculture and Environment (MAE), NDA of Lao PDR (15-minute) From Technology Roadmap to Climate Investment: Leveraging CTCN Support for NDC Implementation in Pakistan (Online) Imran Khan, Assistant Director, Ministry of Climate Change and Environmental Coordination, Pakistan & Usman Manzoor, Program Lead, Global Green Growth Institute (GGGI) Pakistan
10:15~10:30	Current Status of TMFM linkages: Reflections Hansol Park, Climate Policy Specialist, Office of Governance Affairs, GCF
10:30~11:00	Q&A and Coffee Break (15 minutes)

Session 2: GCF Activities and Outlook for 2026-2027	
Moderator: Hoyoung Jo, CTCN	
11:00~11:30	GCF Portfolio (in the Energy Sector) and Lessons Learned Ivo Besselink, Senior Sector Specialist - Energy and Industries, Department of the Asia and the Pacific Region, GCF
11:30~11:50	Readiness & Preparatory Support Programme AJ Untalan, Readiness Programme Officer, GCF
11:50~12:30	Q&A

Lunch break – 60 minutes

Session 3: Opportunities for Scale-up

Moderator: Tomoko Furusawa, CTCN

13:30~13:50	Scaling up Climate Technology Solutions Dr. Murtaza Syed, Acting Global Head of Ecosystem and Climate Economics, AIIB Q&A
13:50~14:10	EDB's Green Investment Portfolio and Partnerships for Climate Action (Online) Evgeniya Klochkova, Head of Office for Sustainability, Eurasian Development Bank Q&A
14:10~14:30	Scaling Climate Finance with KDB (Online) Eugina Kim, Korea Development Bank Q&A
14:30~14:50	Climate Technology and Climate Finance: GGGI's Global Approach (Online) Michael Bak, Senior Analyst, Adaptation & Agriculture, GGGI Asia Q&A
14:50~15:10	Climate vision, strategy, modalities and ideas of ADPC Dr. Peeranan Towashiraporn, Director Risk Analytics and Climate Services, ADPC Q&A

Session 4: Climate Project Marketplace

Moderator: Jeawon Kim, CTCN

15:10~16:30	During this session, NDEs and NDAs will present project ideas that have not yet identified an Accredited Entity, implementation partner, or financing pathway. Participants will engage with Accredited Entities, development partners, and sector specialists from CTCN and GCF to explore opportunities for partnership, project development, and financing support. The session aims to help countries identify potential partners, clarify next steps for project advancement, and discuss practical actions that can be taken following this meeting.
-------------	--

Way forward and Closing

Moderator: Suil Kang, CTCN

16:30~17:00	Feedback from NDEs, NDAs, and key stakeholders
17:00~17:05	Closing Remarks Tomoko Furusawa, CTCN

Bus Transfer offered to the airport and Bangkok city