

Global thematic capacity building programmes

26th Advisory Board Meeting
CTCN Secretariat
Agenda item 19.2



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CTCN's Capacity Building Programmes

Capacity Building

Technical Assistance

Knowledge Sharing

Input to TA ideation at global/regional levels

- 1) Analyze developing countries' climate portfolio, global climate governance, and financing opportunities to design a capacity building programme agenda.
- 2) CTCN invites relevant stakeholders to the action-tailored programmes.
- 3) CTCN facilitates the co-ideation of bankable TA projects between NDE/representatives of NDEs, Network members, and financing entities/their focals.

Implementation at national levels

- 4) Interested parties in developing countries contact their national focal point (NDE) to request technical assistance, then step through 5 sequential processes for delivery of TA service.

Output to impact at global/regional levels

- 5) The CTCN regularly reaches out to the NDEs, project implementers and project proponents to follow up to collect the lessons learned and impacts achieved in countries.

Global Thematic

Exclusive to NDEs (do not accept rep.) **and line ministries**

Objectives

- Focus on training climate technology trends
- Offer Peer-to-Peer learning
- Facilitate co-ideation of cross-regional/multi-country TA projects among NDEs

Progress

2022 Digital agriculture to 4 TAs
2023 GH to 6 TAs
2024 AI to 10 TAs

Stakeholder Eng.

Exclusive to NDEs and their finance focal points

Objectives

- Provide a platform facilitating alignment and enhance communication between national stakeholders
- Support initial activities of TA projects complimenting under developing/existing climate projects

Progress

2023-25 NDE-NDA engagement grew from 5 to 15 countries

Collaborative RD&D

Exclusive to NDEs and Network members from private sector

Objectives

- Provide a platform facilitating knowledge exchange
- Support a twinning institutional arrangement
- Support cRD&D TA project ideated through the programmes

Progress

2023-24 cRD&D to 3 TAs

Network Eng.

Exclusive to NDE rep. on technology and Network members

Objectives

- Provide a platform for showcasing climate technologies
- Fostering partnerships/collaborations among NDEs and Network members
- Welcome emerging technology providers to the Network

Progress

2022-24 NE to 156 Network members + 110 prospective members

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Updates since AB25 - 2025 Activities

Region-tailored thematic capacity building

Facilitating multi-regional TA ideation

Climate Finance

2025 Asia (2-3 September)
Africa (23-25 July)
Latin America and Caribbean (21-22 May)

2026 SIDS (TBC) 
Central Asia (TBC) 

Objectives

- Understanding the Financier's viewpoint via updates on the global movement for climate projects
- Learning concepts and tools to design and develop scalable climate technology projects via participatory workshops

Co-creation for System Transformation

2025 SIDS (3-5 Dec) 

2026 Asia (TBC)
Africa (TBC)
Latin America and Caribbean (TBC)

Objectives

- Introduction to the co-creation concept, tools, and techniques
- Mapping a system-transformative network
- Knowledge on climate integrity and accountability, leading the creation of co-benefits that national and global climate actors seek.



Stakeholder Engagement

Broaden the scope of collaboration with financial mechanisms/entities

GCF's 2025 Structured Dialogues

- March 17– 20, the Caribbean, St.Kitts and Nevis
- May 6 – 9, the Pacific, Cook Islands



Regional NDE Fora

- May 19 – 20, LAC, Panama
- July 21 – 22, Africa, Kenya
- September 1, Asia, ROK
- Dec 1 – 2, SIDS, Australia



cRD&D Seminar

An introduction to the CRD&D concept and strategy developed by CTCN

- Global webinar in October

cRD&D Bridge-building workshop

Identify national Network members for learning visits

- 6 NDEs for Global CRD2B2 Workshop (August 27-29)
- UNFCCC TM collaborative RD&D Session on Accelerating the deployment of Energy Storage during the Workshop

Learning visits

Exchange of knowledge between South-South, North-South

- 5 national experts invited to Learning Visit **Energy Storage Systems - Green hydrogen production and fuel cells** (July 22-24) in partnership with KIST, KRICT (Chemical Research), East West Power Co. Ltd
- Led by NDEs' support, offering knowledge exchange opportunities to identified national climate experts on ESS

Network-NDE Engagement

SIDS and LDCs targeted



Climate Technology Matchmaking



- Last week of August
- Roundtable discussion
- Matching NDC-Tech

Voluntary Technology Talk

October 15-16, Incheon International Environmental Technology Confex 2025, ROK



Network-led capacity building activities

bcijndjco Funded by: UKRI, UK Government

Understanding Digitalization and Climate Fintech: Legal and Regulatory Perspectives from the EU

ENROLLMENT DETAILS TO BE ANNOUNCED SOON

Course Objectives

- ✓ Empowering participants with new legal and regulatory knowledge about the application of emerging digital technologies like AI and Blockchain in climate action
- ✓ Enabling participants to implement or facilitate digital solutions in various climate policy areas and foster collaboration between EU and non-EU experts

Curriculum Overview (May-July 2025)

Stage I: Digitalization Basics (Weeks 1-4)

- Definition and key concepts of emerging digital technologies like AI, blockchain, and Fintech.
- Core concepts of Open Banking, Embedded Finance, and Sustainable Finance

Stage II: Fintech and Climate Change (Weeks 5-7)

- Core areas within climate Fintech.
- Core international and EU policy frameworks relevant to climate change, including the SDGs, Paris Agreement, European Green Deal, and related legislation

Stage III: Fintech in Climate Treaty Implementation (Weeks 8-10)

- Digitalization's role in implementing the Paris Agreement
- Implications for international climate negotiations, sustainability and climate finance reporting, including green bonds and sustainable investments

Key Instructors

Mr. Alastair Marke is the Director-General of the Blockchain & Climate Institute (BCI). A principal UK expert on ISO/CEN standards for climate change-related activities, sustainable finance, SDG management, AI, blockchain and quantum computing, he also advises governments on national digital tech and sustainability policies. Mr Marke is the key author of "Transforming Climate Finance & Green Investment with Blockchains" (Academic Press, 2018) and "Governing Carbon Markets with Distributed Ledger Technology" (Cambridge University Press, 2022).

Prof. Michael Mehling Deputy Director at MIT CEPR and Professor of Law at the University of Strathclyde. Prof Mehling serves on multiple advisory boards worldwide, including as a Special Advisor to the BCI. He co-edited "Governing Carbon Markets with Distributed Ledger Technology" (Cambridge University Press, 2022).

Ms. Christiana Aristidou Business Technology Lawyer and CEO of *The Hybrid LawTech Firm* (Christiana Aristidou LLC), she is the founder of *SmartCity Business*, she develops innovative legal frameworks and business models to help smart cities deliver value through tech integration. The Director of Legal Research at BCI, she is also a non-executive Director at *Rhea Legal Tech*, providing AI, machine learning, and automation solutions for legal and regulatory sectors.

Dr. Stephen Minas is a legal scholar at Peking University focused on the intersection of climate change, finance, energy, and technology. He is also a senior research fellow at King's College London's *Transnational Law Institute*. His work spans public and private international law, energy law, and EU law.

courseinquiries@blockchainclimate.org

WEBINAR ALERT

AFCIA II Co-Design Workshop for Pacific

ADAPTATION FUND CLIMATE INNOVATION ACCELERATOR (AFCIA II) LAUNCH WEBINARS

Under AFCIA II, \$10 million is available to support climate change adaptation. Flinders University and UN CTCN are hosting a webinar to develop a multi-country project proposal for the Pacific. Join us!

April 2, 2025 10:00 AM (AEDT)

For more information, [click here](#)
To join the call, [click here](#)

Develop a multi-country project proposal for the Pacific. Join us!

Integrating AI into Climate Action:

Enhancing Climate Technology Capacity in Asia-Pacific Countries

Green Hydrogen Technologies for Sustainable Transformation: Building a compilation of national strategies, plans and projects 2024

Publications under preparation

- AI cases in LAC
- Case study on Green hydrogen projects

Key observations and takeaways

Global Capacity Building, NDEs called for;

- Sub-regional programmes, this could be resolved by offering parallel sessions for sub-groups within the region
- Online training activities, this could be addressed by communicating other entities' free courses on climate technology via monthly newsletters
- Support in the co-creation and innovative technology selection processes

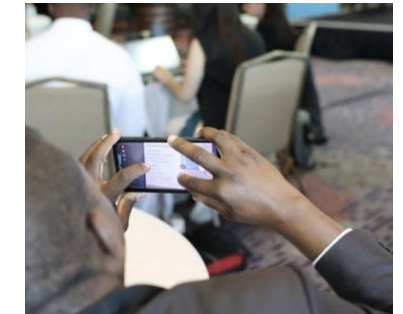
Stakeholder Engagement:

- Mismatch between objectives of NDE-NDA coordination and GCF annual activity, meaning NDE-NDA coordination may be most effective when national-level intervention is supported before engaging them for the global activities
- NDEs seek peer-to-peer learning opportunities, tendency to seek best practices
- May consider global NDE-NDA meetings for countries in most need



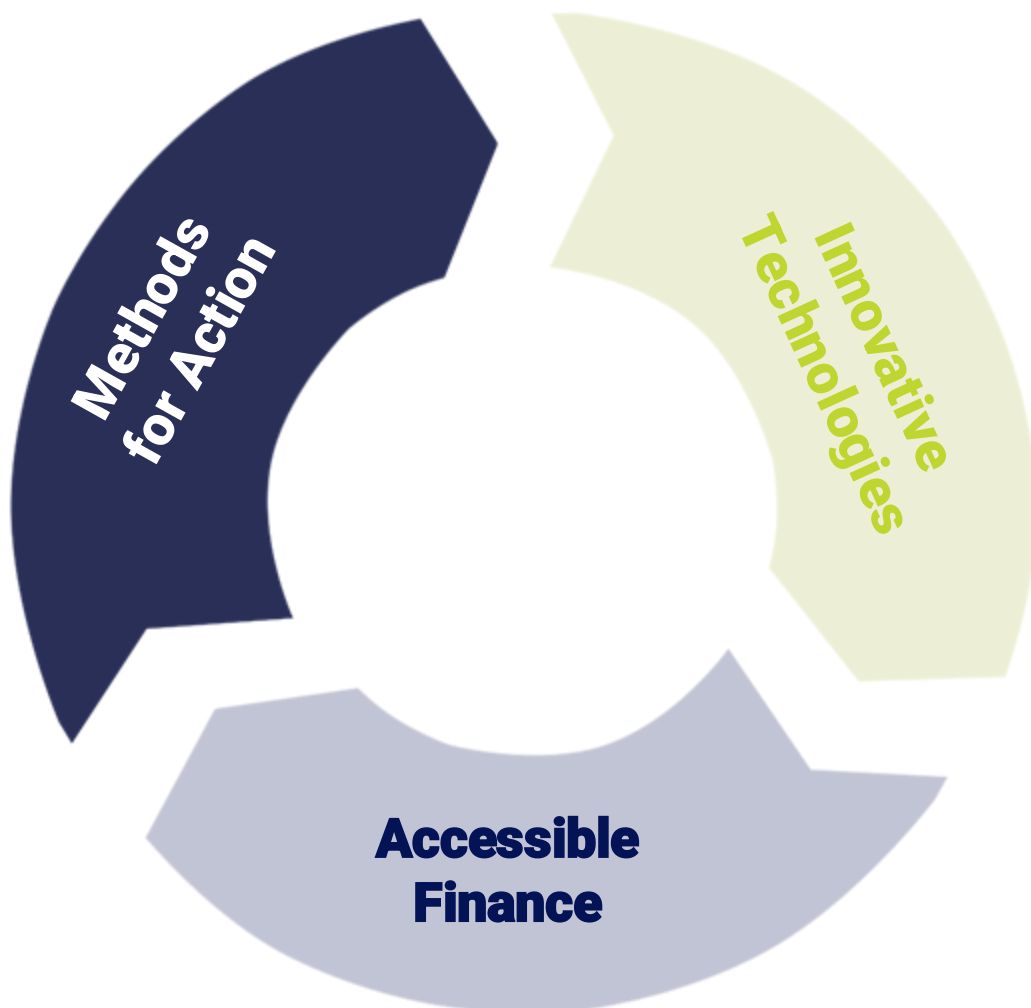
Collaborative RD&D & Network Engagement;

- Necessity to champion Network members for their direct connection with countries;
 - 1) Call for collaboration on in-person (i.e. learning visits) and/or online courses
 - 2) Call for proposals on co-publications
 - 3) Rewarding system for active Network members
 - 4) Membership renewal system for non-active Network members



3

Moving forward: CB's procedure and strategic model



Agenda Setting – Tailored to NDEs’ Capacity

- Level of technology knowledge
- Participation in CTCN services
- Strength of existing national networks to mobilise

Core Modules and Activities

- Global Thematic Capacity Building
- Stakeholder Engagement
- Int’ cRD&D
- Network engagement

Grounded theory: Strategic model for NDEs

- **Years 1–3:** Knowledge training on thematic climate technologies
- **Year 4:** Facilitation of linkages between technology stakeholders and financiers
- **Year 5:** Training on methodologies and tools to enable smooth scale-up

Communicating capacity building service area

The screenshot shows the website's navigation bar with 'Capacity Building' selected. The main content area features a search bar and a featured news article titled 'Learning Visit on Green Hydrogen Production and Fuel Cell' from July 22-24, 2025. The article includes a photo of a group holding a banner and a 'News' tag.

UN environment programme | UN Climate Technology Centre & Network

Search [magnifying glass icon] EN [dropdown arrow] Log in

Technical Assistance | Networking & Collaboration | **Capacity Building** | Resources | What's Happening | About CTCN

Home

Connecting Countries to Climate Solutions

Search climate solutions, projects, members... [magnifying glass icon]

News Exploring the Future of Clean Energy: South Korea hosts a Green Hydrogen Learning...

Standardized procedure: Call for participation



Call for NDE's registration
(13th Jan – 12th March)

Invite registered NDEs/Reps
to the programme

Deliver each programme and
TA teams to follow up on the
ideas generated

UN environment programme | CTCN UN Climate Technology Centre & Network

Services de renforcement des capacités du CTCN pour 2025

Sur la base des discussions et décisions issues des réunions du Conseil consultatif du CTCN, des réunions du Conseil subsidiaire et de la COP 2024, nous avons identifié 10 activités réparties sur 4 modules qui renforceront votre capacité en tant que point focal technologique pour le CTNUCC, ainsi que votre mise en réseau et votre contribution avec les parties prenantes clés.

Les 4 modules sont :

- i. Programme mondial de renforcement des capacités techniques
- ii. Programme d'engagement du réseau
- iii. Programme international de R-D et de démonstration (RID&D)
- iv. Programme d'engagement des parties prenantes

Nous vous prions de bien vouloir nous faire part de vos préférences concernant les 10 activités prévues. Il n'y a aucune limite au nombre d'activités que vous pouvez choisir, mais veuillez sélectionner celles qui, selon vous, soutiendront le mieux vos activités en tant que NDE.

Veuillez noter que l'indication de vos préférences ne garantit pas une inscription directe aux activités. Cependant, en combinant vos préférences avec les analyses des CTCN de la gouvernance climatique et du portefeuille de TA que nous mettons en interne, une invitation vous sera envoyée plus tard de chaque activité sélectionnée.

Nous espérons que cette enquête vous fournira un aperçu des services de renforcement des capacités 2025 du CTCN, spécifiquement conçus pour soutenir votre rôle en tant que NDE.

Nous vous prions de bien vouloir compléter votre réponse d'ici le 15 février. Merci beaucoup.

February 2025.

Supported by:



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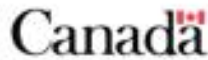
環境省
Ministry of the Environment



United States of America



ADAPTATION FUND



Bangladesh

Mode: Training

Participants: Government officers on disaster management personnel with stakeholders both from the central and the local governmental level

Content: Use of a forecasting system for hydrological forecasting to ensure a whole-of-government technology transfer aimed at enhancing longer lead-time flood forecasting and strengthened community dissemination

Chile

Mode: Workshops

Participants: Government officials, academia, NGOs and the private sector,

Content: The results from the TNA, which include four technology action plans, are being integrated into the 17 sectoral plans that make up Chile's Climate Change Law.

Follow-up: The high-level closure meeting was attended by over 80 representatives from ministries and key stakeholders.

South Africa

Mode: Training

Participants: Employees of the city of Mbombela and the University of Mpumalanga on an integrated forest policy decision support system.

Content: The overall concept and mechanism of the system was introduced and trainings were conducted to ensure locally-led maintenance and development of the system in future.