UN environment programme | CTCN UN Climate Technology Centre & Network

From Technology to Finance: Understanding the UNFCCC Mechanisms and Opportunities for Collaboration

GCF Liaison Officer's Onboarding Programme
22 October 2026 9am-10am (KST)

1 Who we are - CTCN

UNFCCC Technology Mechanism

United Nations Climate Change
Technology Executive Committee

UN environment programme | CTCN UN Climate Technology Centre & Network

UNFCCC Financial Mechanism

- Global Environment Facility (GEF)
- **Green Climate Fund (GCF)**
- Fund for Responding to Loss and Damage (FRLD)

Linkages between the TEC, CTCN & GCF, GEF:

- Informing each other's work
- Collaborating on implementation

UNFCCC Technology Mechanism

Technology Executive Committee (TEC)

- Policy arm, supported by UNFCCC secretariat
- Policy recommendations, knowledge products & dialogues

Climate Technology Centre & Network (CTCN)

- Implementation arm, hosted by UNEP
- Technical assistance, capacity-building, knowledge sharing

Established in 2010, the Technology Mechanism is comprised of the TEC and the CTCN. Both bodies work together in a synergistic way under a joint work programme.

Joint Work Programme of the Technology Mechanism (2023-2027)

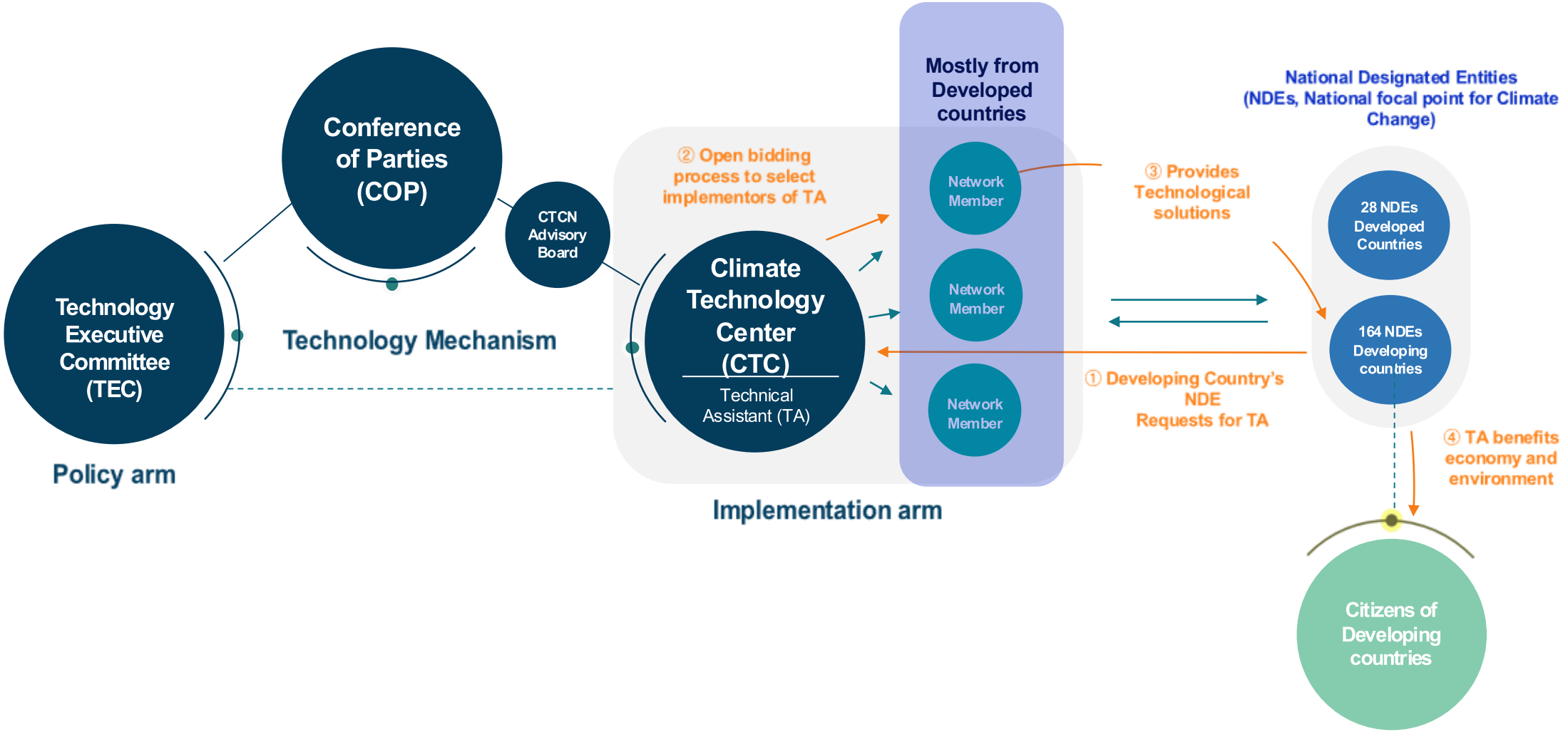
TEC Rolling Workplan (2023-2027)

Joint Activities Common Areas of Work

CTCN Programme of Work (2023-2027)

Demand-Driven Approach

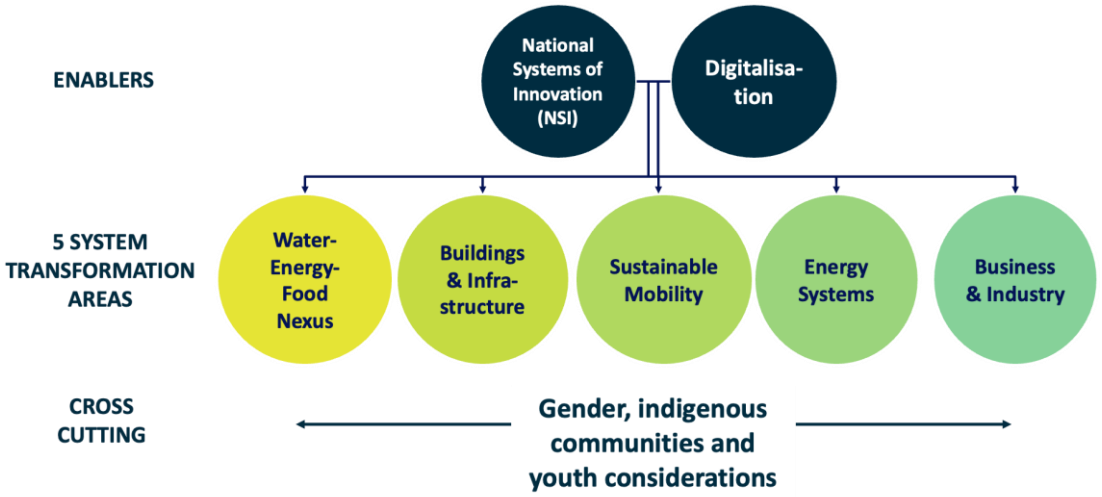
The Paris Agreement requires all Parties to implement 'Nationally Determined Contributions' (NDCs), in order to lower the global temperature below 2 degrees Celsius.



Joint TEC and CTCN meetings

- 2 times per year (Q1, Q3)
- TEC board members: Individual capacity
- CTCN board members: Parties

Take note, discuss, endorse, and approve





10 Years of CTCN: Snapshot

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500+
requests for technical assistance received



370+
technical assistance projects implemented



1.5bn
of anticipated funding leveraged**

**Calculated considering a yearly operational budget of USD 10 million.





110+
Developing countries benefiting from CTCN technical assistance, of which 38% are LCDs and 16% are SIDS



6,900+
trained individuals



3-4
capacity building initiatives per month on average

200+
Million anticipated beneficiaries



10-15m
expected tonnes of CO2eq reduced per year*

*Average annual GHC emission potential based on the full implementation of the technology solutions proposed



840+
Network members



United Nations Environment Programme(1)



Executive Director
Inger Andersen

Deputy Executive Director
Elizabeth Mrema

Chief of Staff
Nicolas Bertrand

Executive Office

New York Office / Secretariat of the Environment Management Group
Ligia Noronha

Governance Affairs Office / Secretariat of Governing Bodies
Radhika Ochalik

Plastic Pollution Intergovernmental Negotiating Committee Secretariat
Jyoti Mathur-Filipp

Evaluation Office
Janet Wildish, a.i.

Chief Scientist
Andrea Hinwood

Chief Digital Officer
Sally Radwan

Regional Office for North America
Rafael Peralta
(Washington D.C., United States)

Regional Office for Africa
Rose Mwebaza
(Nairobi, Kenya)

Regional Office for Asia and the Pacific
Dechen Tsering
(Bangkok, Thailand)

Regional Office for Europe
Arnold Kreilhuber
(Geneva, Switzerland)

Regional Office for Latin America and the Caribbean
Juan Bello
(Panama City, Panama)

Regional Office for West Asia
Sami Dimassi
(Beirut, Lebanon)

Subregional Office for West Africa
Mohamed Atani
(Abidjan, Cote d'Ivoire)

Subregional Office for Southern Africa
Meseret Zemedkun
(Pretoria)

Addis Ababa Liaison Office
Margaret Oduk a.i. (3)
(Ethiopia)

Subregional Office for the Pacific
Jinhua Zhang a.i.
(Apia, Samoa)

China Country Office
Qian Wang, OiC
(Beijing)

India Country Office
Balakrishna Pisupati
(New Delhi)

Subregional Office for Central Asia
Aidai Kurmanova
(Almaty, Kazakhstan)

Russian Federation Country Office
Vladimir Moshkalo
(Moscow)

Brussels Liaison Office
Veronika Hunt Safrankova
(Belgium)

Vienna Programme Office
Harald Egerer (Austria)

Subregional Office for the Caribbean
Vincent Sweeney
(Kingston, Jamaica)

Subregional Office for the Southern Cone
Alberto Pacheco Capella
(Montevideo, Uruguay)

Brazil Country Office
Alberto Pacheco Capella a.i.
(Brasilia)

Mexico Country Office
Dolores Barrientos
(Mexico City)

Saudi Environment Sustainability Programme
Ayman Eltalouny
(Riyadh, Kingdom of Saudi Arabia)

Industry and Economy Division
Sheila Aggarwal-Khan

Ecosystems Division
Susan Gardner

Law Division
Patricia Kameri-Mbote

Early Warning and Assessment Division
Jian Liu

Climate Change Division
Martin Krause

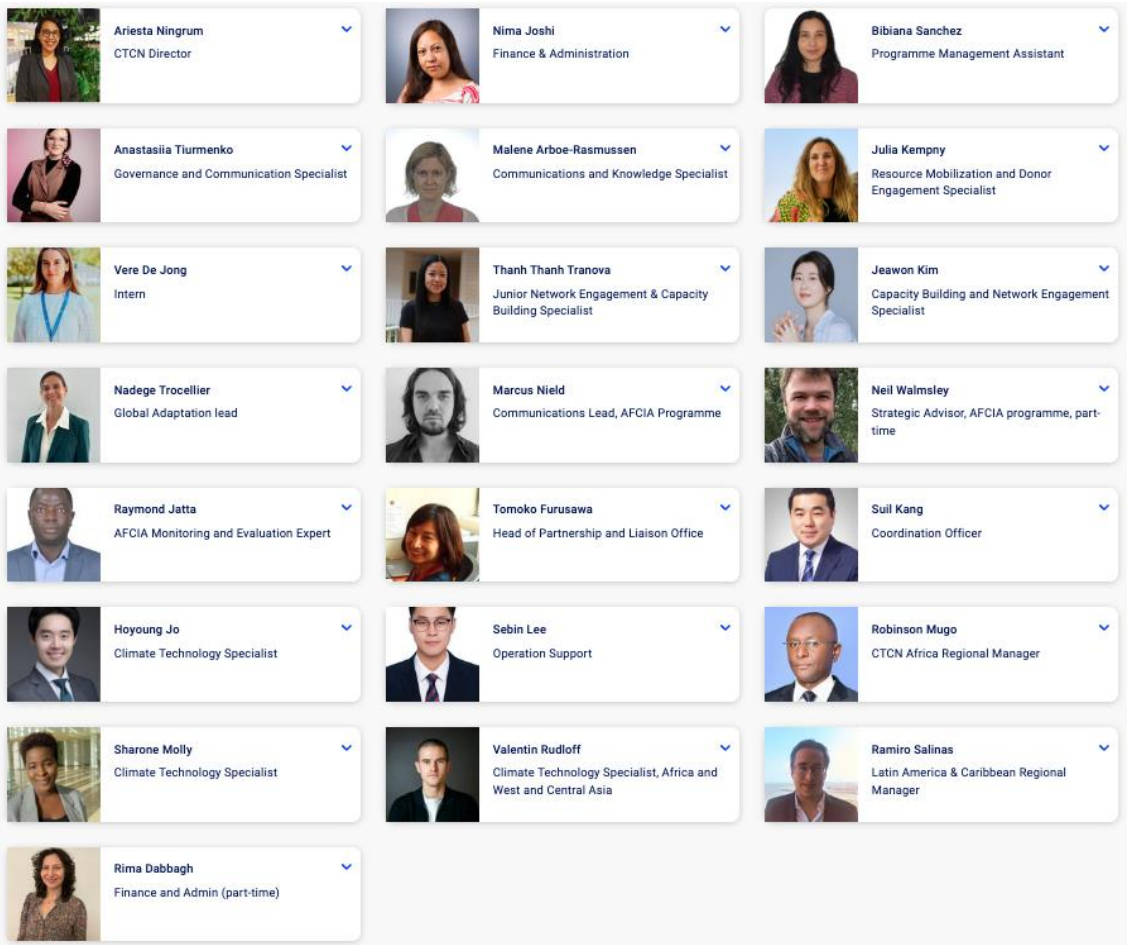
Communication Division
Daniel Cooney

Policy and Programme Division
Jyotsna Puri

Corporate Services Division
Soomi Ro

KEY:
(1) Please see below organizational structure for Multilateral Environmental Agreements and other Entities to which UNEP provides the Secretariat or Secretariat functions.
(2) UNEP also has regional presence through project offices, centres and secretariats that it hosts.
(3) a.i.: Ad Interim

CTCN Secretariat



HQ: Copenhagen, Denmark

Two regional presences: Africa, LAC

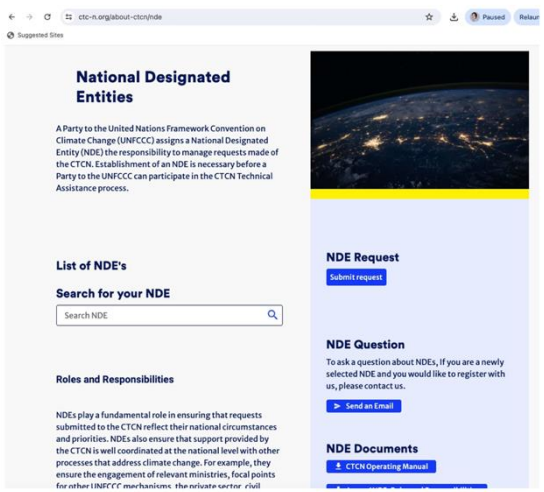
One Partnership and Liaison Office (PALO): AP

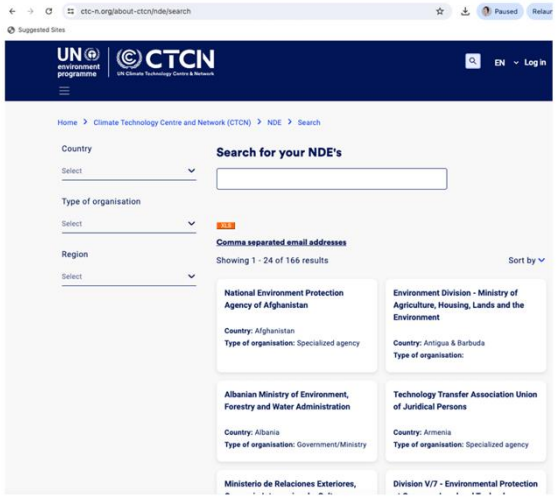
National Focal points (NDEs)

Paris Agreement: 194 countries (43 Annex 1, 151 Non-Annex 1)

196 NDEs representing 138 countries (27 Annex 1, 111 Non-Annex 1)

To search: https://www.ctc-n.org/about-ctcn/nde

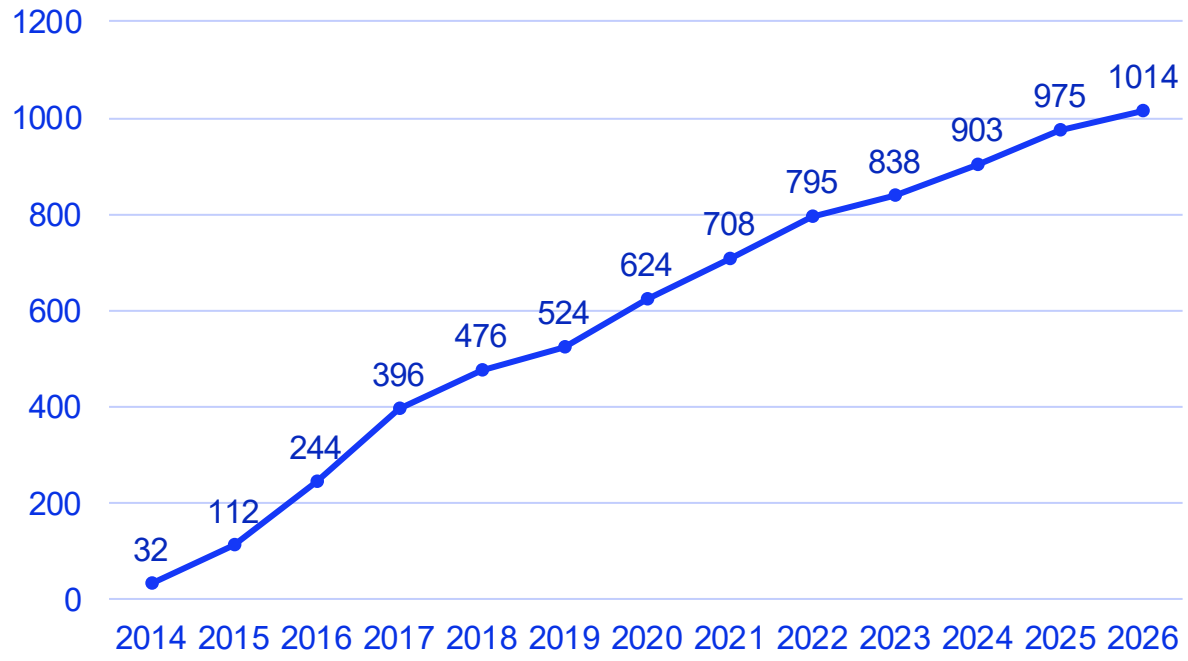




Network Overview

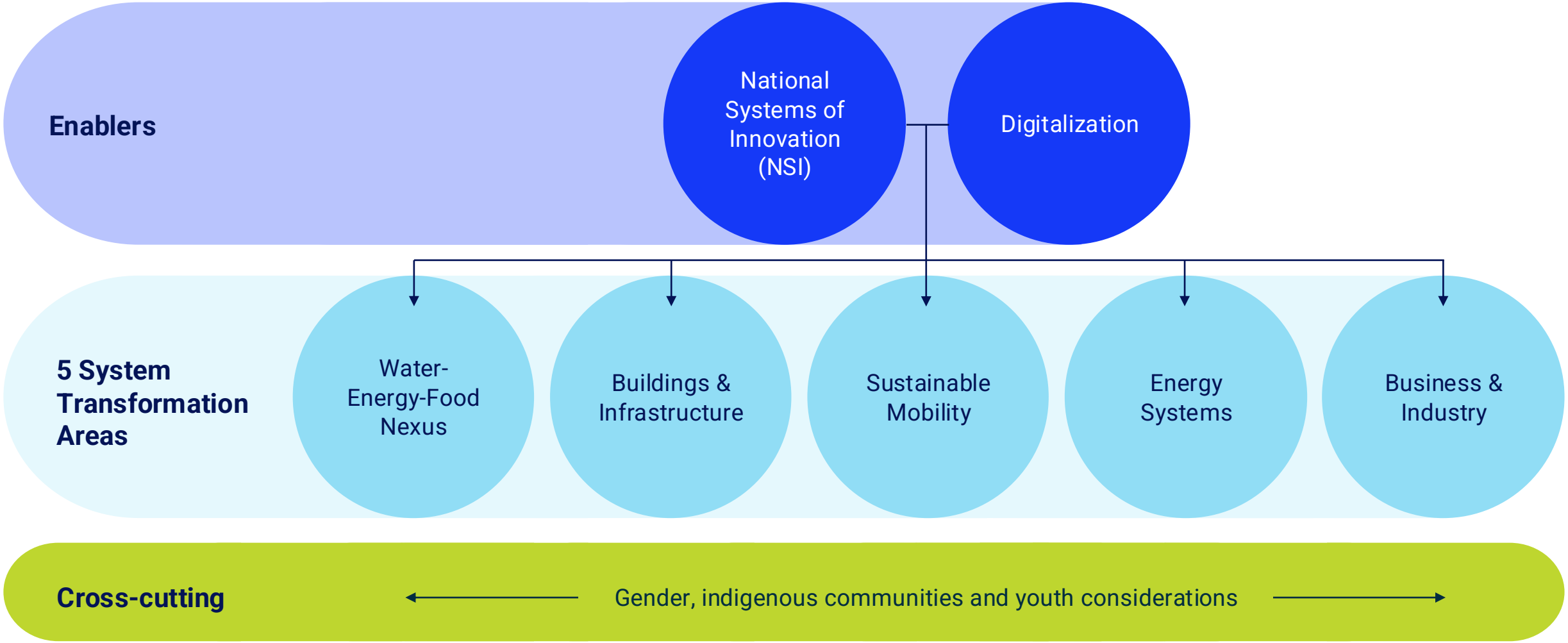
The Network has grown to have **1,014** members.

- 45.4% from Annex I / 54.6% from Non-Annex
- 44% Western European and others, 32.2% Asia-Pacific, 12.1% Africa, 10% LAC, 1.7% Eastern Europe



Type of Organization	Counts	%
Private sector organization	554	54.6%
Research and academic institution	155	15.3%
Non-governmental organization	113	11.1%
Not for profit organization	80	7.9%
Public sector organization	50	4.9%
Intergovernmental organization	20	2.0%
Other	13	1.3%
Partnership	9	0.9%
Initiative	6	0.6%
Financial institution	6	0.6%
Specialized agency	3	0.3%
Government/Ministry	2	0.2%
Regional organization	2	0.2%
Local government	1	0.1%
Total	1,014	100.0%

CTCN's 3rd Programme of Work 2023-2027



2

CTCN services and portfolio

Interconnectivity in the CTCN's support areas

Capacity Building

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.

Technical Assistance

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.

Knowledge Sharing

Outputs to an 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.

2025 Region-tailored thematic CB

Facilitating multi-regional TA ideation

Climate Finance

2025

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

Objectives

- Introduction to the UNFCCC Technology Mechanism
- Workshop on Scalable Digital Projects: a hands-on workshop aimed at learning concepts and tools to design and develop scalable climate technology projects.

Co-creation for System Transformation

2025

SIDS (3-5 Dec)

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.



2026 Global thematic CB

Facilitating multi-regional TA ideation

System Transformation

COP decisions	#AI4ClimateAction BTIP (Tech selection)	**NDC analysis**	TNA TAP	**Internal consultation**	AOP TA teams

Region-specific themes

- Africa (March 26): National Systems of Innovation for Climate Resilience and Access
- LAC (May 21-22): Cross-Sector System Transformation at the Water-Energy-Food Nexus
- Asia (July 9): Integrating Energy Technologies for System transformation
- SIDS in the Pacific (Sep 15): System Transformation for Adaptive Management through AI in Energy sector
- Eastern Europe (TBC): System Coordination for Energy Transition and Grid Modernization

Key details

Purpose: Knowledge enhancement for TA ideation

Format: Back-to-back with Fora and other activities

Continuity: Online courses on 2025 themes (SROI, CBE)



Technical Assistance (TA): 5 Types

- Policy design, development (framework, roadmaps)
- Develop methodologies or tools
- Pre-feasibility studies
- Capacity Building of Communities
- Small-scale pilot testing

Technical Assistance Progress in 2026

18 Technical assistance requests received from 13 different countries

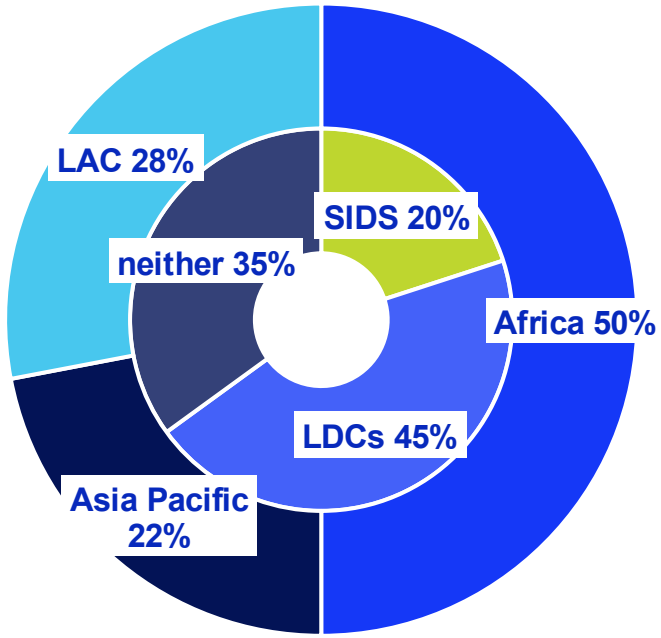
38 Technical assistances being implemented

18 Technical assistances were completed

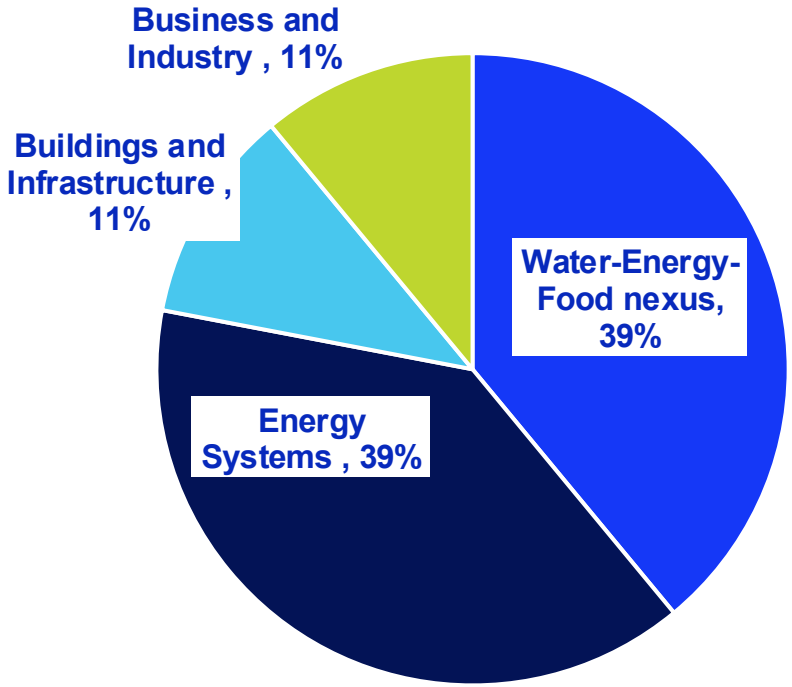
Technical Assistance Portfolio: Closed

18 Technical Assistances in 18 countries were completed

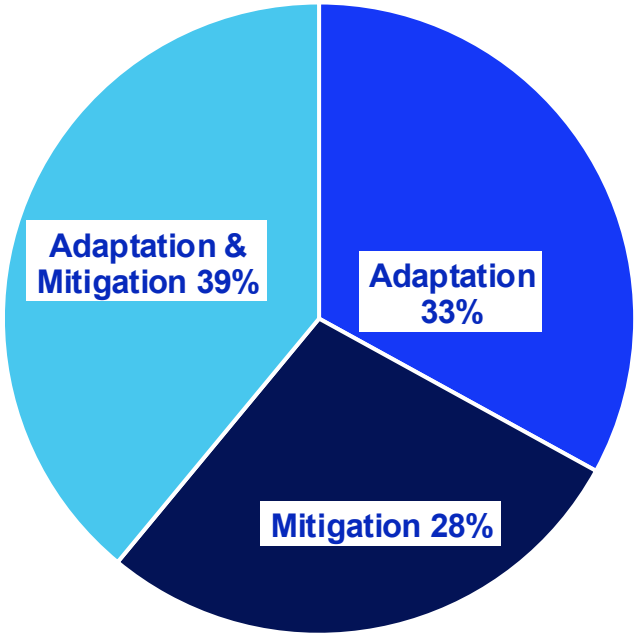
Regional Distribution/SIDS and LDCs



by System Transformation Area



Adaptation vs Mitigation



Technical Assistance Process

NDEs	*NDE &CTCN Secretariat*	*CTCN Secretariat*	*A network member (Implementing partners)*	*NDE & IP*
1 Request Submission	**2 Response Plan Design**	**3 Bidding Process**	**4 Project Implementation**	**5 Monitoring and Evaluation**
Evaluation of requests for technical assistance within **2 weeks**, depending on clarity of the request.	Development of response plans within **2-3 months**, provided that the necessary information is available and key stakeholders are responsive.	Conduct of the competitive bidding process for about **8 months** depending on UNON procedures	Delivery of the technical assistance between **12-18 months** depending on the requested activities.	Execution of monitoring and evaluation activities on an **ongoing basis**.

3

Collaboration between GCF and CTCN: Lessons learned

History of TM-FM linkages as per UNFCCC COP guidance

Decision 13/CP.21 invited GCF Board to provide its recommen-dation for COP22

Country-level guidance
- Focal point collaboration
- Submit projects based on TNA + CTCN TA to GCF
- NDA invited to use GCF readiness funds for TNA and TAP
- GEF + recipient countries to explore with CTCN

Decision 14/CP.22 welcomed GCF Board decision to hold annual meetings with GCF and UNFCCC constituted bodies

Readiness&prep support framework agreement between UNEP-GCF (Oct 2016)
- Collaboration on TA through development of standardized modules for capacity-building, project formulating trainings
- Enhance NDE-NDA collaboration
- GCF-CTC coordinat mechanism

Decision 14/CP.24 welcomed the info provided by TEC, CTCN, GCF and GEF on their actions in strengthening linkages between TM and FM in their annual reports to the COP

Further discussion
- Countries are invited to seek CTCN support to develop and submit technology-related projects to the FM
- Encourages the CTCN to engage with the GCF/GEF to identify ways to enhance information-sharing among country focal points



Cross-participation in events
(Regional NDE For a and webinars)
&
Upon country request, supported NDE-NDA coordination
(CIS, MENA)

GCF B.18
• Proposes a Delivery Partner work programme for the CTCN under the Readiness and PPF
• Decision 3: Outlines support for collaborative RD&D

CTCN's CB module
Vision-to-concept Programme - Building capacity for GCF concept notes

CTCN's GCF Readiness support
31 Readiness

Lao PDR SAP009 approved at GCF B24

Continued

History of TM-FM linkages as per UNFCCC COP guidance

Decision 9/CP.26
Encourages CTCN to continue its collaboration with GCF through Readiness and PPF

No agreement reached
- Establishment of CTCN Partnership and Liaison Office (2022)
- Changes in GCF's organizational strategy (completed in 2023)

Decision 10/CP.28
Emphasizes the importance of continued coordination among those national focal points

SB60 in-session workshop
Call for Submission on TM-FM

No agreement reached
- CTCN's mandate on BTIP and functional review
- GCF's draft decision on increasing synergy with CTCN (8c.13)

A draft text on TM and FM agreed at SB64

NDE-NDA coordination meeting
Asia, Thailand, 10 July 2026



A&B FP133 approved at GCF B26

Cross-participation in events (Regional NDE Fora and webinars)
&
Upon country request, supported NDE-NDA coordination (Asia-Pacific, Zambia, Samoa, Caribbean, Pacific)

Kenya PPF approval announced at COP29

Ghana FP265 approved at GCF B42

Kenya FP292 approved at GCF B44

Types of service to collectively support countries



Establishing an enabling environment: GCF Readiness

31 Readiness 1.0 projects as a Delivery Partner

Strengthening enabling environment: Country-led

- 2016 Bosnia Herzegovina TA to 2019 EBRD Green Cities Program
- 2020 Antigua & Barbuda CTCN TA to FP133
- 2024 Kenya PPF090 to 2026 FP292

Enhancing enabling environment for implementation: Network-supported

- 2025 PNG KIER
- 2026 Pakistan GGGI

CTCN GCF Readiness 2019-2026

USD 11.04 million

Total value of GCF readiness program implemented via CTCN TA

31 Readiness Projects

23 implemented by UNEP CTCN and 8 by UNIDO

Implementation of COP22 (country-level guidance) and GCF B.18

29 Countries

Across 5 regions

Supporting countries' coordination challenges

CTCN's participation in GCF Regional Dialogue and GCF's participation in NDE Forum since 2016. During COVID, we lost this connection. From 2023, this coordination support resume.







2023

• 7-10 Aug, **Asia and the Pacific**, at Songdo, Republic of Korea – 5 NDEs participated.

2024

• 18–22 Mar, **Eastern Europe and Central Asia**, at Skopje, Republic of North Macedonia – 5 NDEs participated.

• 24–28 Jun, **Middle East and North Africa**, at Rabat, Morocco – 3 NDEs participated.

2025

• 17-20 Mar, **the Caribbean**, at Saint Kitts and Nevis –4 NDEs participated.

• 6-9 May, **SIDS in the Pacific**, at Cook Islands –3 NDEs participated.

KOICA-KEI Philippines workshop

Invitational Training on
Exploring Climate Adaptation
Technologies
for Philippine Climate Resilient Cities

28 May 2026, in Seoul, Republic of Korea

Organiser: KEI (Network Member), SusIF (Network Member)

Supported by: CTCN, GCF

Participants: 15 government representatives from 5 cities in Philippines







Recent efforts: National Coordination Support
NDE-NDA Coordination meeting



10 July 2026, in Pattaya, Thailand

To address coordination challenges among NDEs and NDAs as well as to share the potential models of TM-FM linkages, together with GCF, CTCN organized Asia NDE-NDA coordination meeting.

29 NDEs and NDAs representing 20 countries participated. The program engaged 7 financial entities and MDBs including GCF and GCF's Accredited Entities to foster scalable climate technology options and available modalities CTCN, GCF, and development financing partners offer.

This meeting was supported by the Government of Japan.

4

Collaboration between GCF and CTCN: Moving forward

Future of CTCN (2027~)
BTIP, Co-creation, and Indigenous peoples

- Approved at COP30, the **Belém Technology Implementation Programme (BTIP)** is a new initiative designed to advance the climate technology agenda

  > CTCN's Role: Accelerates the transfer of environmentally sound technologies, providing technical assistance, capacity building, and policy guidance. We are asked to support matchmaking and proposal development, thus need support from the relevant stakeholders.

- **Co-creation with NMs and support for NDEs in selecting technologies**

  > CTCN's response: Programmatic approach in increasing NMs engagement in bankable TA design (e.g., Network Fair), articulation of demand of NDEs

- **Emphasis on locally-led, indigenous peoples**

  > CTCN's response: Active engagement of local communities, indigenous peoples' voices in TA development and implementation

Successful models of Technical Mechanism (TM) - Financial Mechanism (FM) linkage

Antigua and Barbuda, Cook Islands, Ghana, Lao PDR

Driven entirely by a country's national priorities and ownership.

NDE-NDA align their TA-FP requests with national strategies (e.g., NDC, NAP) to directly unlock large-scale climate finance. Implementing partner or NDE-NDA remained same along the way.

Kenya

CTCN and GCF step-wise collaboration in supporting CTC Network members and countries with strong commitment for a scale-up to develop GCF CN, PPF proposals and FP.

Solomon Islands
| 2024 CTCN TA to ASEAN Research Funding

The establishment of an Integrated Coastal Zone Management (ICZM) Plan to protect the mangroves through Ecosystem based adaptation solutions

Total budget
USD 248,400

Duration
2022-2024 (2 years)

Implementing and Consortium Partners
Korea Environment Institute & Kookmin University

Outputs

- Stakeholder mapping report
- Matrix of existing legal and policy instruments linked to Coastal Zone Management
- Report identifying barriers, challenges, lack of policies on the existing institutional instruments
- Consultations with main stakeholders
- Full ICZM policy framework drafted
- Implementation guide under a short-term perspective (1 year) of the ICZM framework policy
- Technologies fact sheets (6-8) for ICZM
- Report on the awareness campaign

Harnessing AI-based Satellites for Mangrove Forest Management in Borneo, BKCF (BIMP-EAGA-ROK Cooperation Fund)

Total Investment
USD 750,000

Timeline
06.2026~05.2028

Implementing Agency & Executing Agency
AFoco & Kookmin University

Project goal To enhance mangrove monitoring in Brunei, Indonesia, and Malaysia using AI-based satellites while strengthening local capacities through training and community-led conservation.

Project Beneficiaries
Government Agencies in Brunei Darussalam, Indonesia, and Malaysia
- Officials and forestry personnel will be trained in using AI-based satellites for mangrove assessment and monitoring, enhancing data-driven conservation policies and climate resilience strategies.
Coastal Communities & Local Fishers
- Local communities will actively participate in community-led mangrove conservation, enhancing both environmental sustainability and livelihoods.

[Under development]

Pakistan | 2024 CTCN TA to two pathways

Pakistan Technology Roadmap for NDC Implementation

Total budget
USD 248,974

Duration
2023-2024 (1year)

Implementing Partner
Global Green Growth Institute (GGGI)

Outputs

- Development of Response Plan and implementation planning and communication documents
- Technology Roadmap Coordination Mechanisms
- Identification of climate technologies for intervention in the high-impact sectors of waste management and water
- Development of technology roadmap for NDC implementation
- Preparation of Financing Support

Three different Scale Up

1. Biochar pre-feasibility – financing mobilized: USD 158,006 from the Korea Green New Deal Trust Fund (KGNDTF) supported biochar pre-feasibility studies, leading to the Pakistan Biochar Circular Economy Investment Platform (PB-CIP) proposal.

2. Biochar scale-up – proposal under consideration: EUR 5 million proposal submitted to the Italian Agency for Development Cooperation (AICS) to scale biochar solutions; currently under consideration

3. Water-efficient irrigation technologies with Consultative Group on International Agricultural Research (CGIAR): USD 25 million (GCF, blended financing)

[Under development]
PNG | 2024 CTCN TA to two pathways

Developing a national policy for deploying and scaling up E-mobility and supporting sustainable infrastructure

Total budget
USD 179,340

Duration
2022-2023 (1year)

Implementing Partner

Outputs

- Report on market assessment and gap analysis and policies on EV in PNG
- Report on implementation roadmap with business models and investment plans
- Feasibility study, tender specification documents and report on business case
- EV factsheets, training materials and workshop reports

Two Scale Up

- Sustainable Urban Mobility Plan with ADB (USD 1m)
- E-buses with a Swiss e-mobility company (USD Xm)

[Under development]

Uganda | 2025 TA to GCF Project

Technical Assistance Towards the Development of a Project Proposal for the Implementation of Climate Adapatation and Mitigation Technologies(2024-2025)

- provided technical assistance for the development of a detailed fundable proposal to be submitted to the GCF to leverage climate finance to support the implementation of climate change adaptation and mitigation technologies in the Ugandan identified in the TNA outcomes and TAPs.

Total budget for implementation

- USD 75,000

Outputs

- Development of response Plan, implementation planning and communication documents
- A conceptual framework leading to the project proposal for leveraging finance from entities under the financial mechanism of the UNFCCC giving due consideration to identifying key considerations for Improving quantity and quality of agricultural produce and services including enhancement of food security
- Engage local counterparts in Uganda to facilitate the process of developing the proposal
- Validation of the project proposal
- Submit the final project proposal to GCF
- **Concept note targeting USD 25,000,000 was submitted to GCF (Sept 2025)**

Call for liaison officers' support

Country	NDE name	Organization	Position	NDA name	Organization	Position
Same Ministry, Same persons: The officer may consider mapping out CTCN and GCF modalities to fully benefit from these.						
Grenada	Ms. Peron Johnson	Ministry of Climate Resilience, the Environment and Renewable Energy	Permanent Secretary (Ag.), Ministry of Climate Resilience, the Environment and Renewable Energy	Ms. Peron Johnson	Ministry of Climate Resilience, the Environment and Renewable Energy	Permanent Secretary Ministry of Climate Resilience, the Environment and Renewable Energy
Same Ministry, Different persons: Encourage ministry-level coordination. NDEs and NDAs may consider CTCN modalities as versatile/bridging scheme to GCF modalities.						
Papua New Guinea	Mr. Danny Nekitel	Climate Change and Development Authority	Manager Mitigation and Low Carbon Growth	Mr. Ruel Yamuna	Climate Change and Development Authority	Special Envoy for Climate and Environment
Solomon Islands	Mr. Thaddeus Siota	Ministry of Environment, Climate Change, Disaster Management and Meteorology	Director, Climate Change Division	Ms. Agnetha Vave-Karamui	Ministry of Environment, Climate Change, Disaster Management and Meteorology	Deputy Secretary Technical
Jordan	Ms. Sara Qais Al Haleeq	Ministry of Environment - Jordan		Mr. Belal Shqarin	Ministry of Environment	Director, Climate Change Directorate
Different Ministry, Different persons: Leverage on GCF dialogues, NDE forum to build a rapport & Encourage cross-partication in TA/Readiness/PPF project committee group to share a progress.						
Sao Tome and Principe	Mr. Abenilde Tomé Pires dos Santos	Direcção de Indústria/Serviço Nacional da Propriedade Industrial		Dr. Fausto Policarpo Abreu das Neves	Ministry of Economy and Finance	NDA Focal Point
Cote D'Ivore	Mr. Kumassi Philippe Kouadio	Sustainable Environment and Energy Development Consulting Center		Dr Eric-Michel ASSAMOI	Minister's Office, Ministry of Environment and Sustainable Development	Director, Directorate of International Cooperation and Mobilisation of Funding
Ethiopia	Mr. Belete Gessese	Ministry of Environment and Forest	Senior Expert, Climate Change Green Technology Innovation, Minirsty of Planning and Development	Dr. Benti Firdissa	Ministry of Planning and Development	Head desk, National MRV system
Lesotho	Mr. Maqhanolle Tsekoa	Ministry of Environment and Forestry, Meteorological Services Department	Meteorologist	Ms. Nthoateng Lebona	Ministry of Finance and Development Planning	The Permanent Secretary of the Ministry of Finance and Development Planning
Mozambique	Mr. Antonio Jorge Raul Uaissone	Ministry for Science and Technology		Mr. Albano Manjate	Ministry of Planning and Development – National Directorate of Climate Finance	National Director, National Directorate of Climate Finance - Ministry of Planning and Development
Uganda	Dr. Samuel Okodi	Science, Technology and Innovation Secretariat, Office of the President	Team Leader, Infrastructure Innovations Bureau	Mr. Ramathan Ggoobi	Ministry of Finance, Planning and Economic Development	Permanent Secretary / Secretary to the Treasury
Honduras	Mr. Fausto David Diaz	National Climate Change Directorate - Energy, Natural Resources, Environment and Mining Secretariat of Honduras	Especial de Cooperacion Externa y Movilizacion de Recursos de esta Secretaria de Estado	His Excellency Juan Carlos Ramos Ramírez	Secretary of Energy, Natural Resources, Environment and Mines	Secretary of State for Natural and Environmental Resources
Jamaica	Mr. Ajani Alleyne	Ministry of Economic Growth and Job Creation	Research and Development Officer	Mr. Omar Alcock	Ministry of Water, Environment and Climate	Acting Principal Director
Tunisia	Mr. Bouzghaya Fethi	Ministère de l'Equipement, de l'Aménagement du Territoire et du Développement Durable	Direction Générale du Développement Durable	Mr. Chokri Mezghani	Ministry of Environment	Director General
No NDE, only NDAs: Nudge NDAs to consult with relevant ministries and nominate an NDE via UNFCCC focal point.						
Libya	No NDE			Dr. Mustafa Abdulhadi	Ministry of Environment	Ministry of Environment Faculty member at the University of Sabha

Priority areas of GCF/NDA and UNEP collaborations may include...

- Wider GCF, NDA and UNEP collaborations in development of NDCs, NAP, LTS, Climate Investment Strategies
- Scaling up of AFCIA-like proven innovations-
- Capacity building and proposal development in specific projects - technology

These can be supported by Liaison Officers through advocacy, facilitating joint meetings with UNEP staff/ missions with NDAs, involvement in CTCN TA technical committees etc

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UNFCCC_CTCN
UNFCCC.CTCN
Climate Technology Centre Network

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Comhshaol, Pobal agus Rialtas Áitiúil
Environment, Community and Local Government

Additional information: Regional Summaries for the last 6 months

Asia and the Pacific: TAs Under Implementation

Country	Title	System transformation areas	Category
Mongolia	Reducing smallholder vegetable farmers' vulnerability to climate change impacts including water scarcity in Mongolia through EbA and digitalized risk mitigation insurance solutions	WEF nexus	Adaptation
Uzbekistan	Pre-feasibility study for groundwater desalination and resource recovery in Uzbekistan	WEF nexus	Adaptation/Mitigation
Bangladesh	Feasibility research of Solar Electric-Based Cold Warehouse equipped with Low-temperature Latent Heat Material for Fruit Storage in Bangladesh Climate Conditions	WEF nexus	Adaptation/Mitigation
Vietnam	Strengthening salinity intrusion data sharing and forecasting for adaptation to climate change impacts in the Mekong Delta of Viet Nam	Buildings and infrastructure	Adaptation/Mitigation
PNG	Pre-feasibility study on Ocean Energy focusing on Salinity Gradient Energy Technology and Electrochemical Ocean Thermal Energy Conversion	Energy systems	Mitigation
Maldives	Feasibility study on green hydrogen potential in Maldives and development of a national roadmap for sustainable energy transition	Energy systems	Mitigation
Fiji	Technical capacity enhancement for climate-resilient agriculture through the revision of national policies and the improvement of data management systems	WEF nexus	Adaptation
Cambodia	Development of National Green Hydrogen Roadmap for Accelerating Carbon Neutrality	Energy systems	Mitigation

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TAs under various stages of implementation, in adaptation, mitigation and cross-cutting sectors.

8 TAs under implementation (4 WEF nexus, 3 Energy systems, 1 Buildings and Infrastructure).

Asia & Pacific: Closed & New TA Requests

- 2 TAs have been completed during the last 6 months.
  - **Nepal**: Customized weather and climate information system for climate-resilient agriculture in Nepal
  - **Timor-Leste:** Formulating a National Electricity Grid Code and Development of a Net Metering Policy in Timor-Leste



- 3 TAs nearing their conclusion: **PNG** (ocean energy), **Bangladesh** (solar-based cold storage), **Cambodia** (green hydrogen).



- K-probono: **Cambodia** (green hydrogen) started its implementation in Aug 2025.





- Trends in Requests:
  - TA requests on green hydrogen-based fertilizer production (Nepal)
  - EWS (Vietnam, Laos)
  - Waste management and circular economy (Kyrgyzstan)
  - AI-related weather and climate data (Tajikistan), Transboundary water management (Cambodia), Rainwater harvesting (Cambodia)
  - Multi-country for the Pacific: A regional roadmap for an open-source knowledge-sharing and capacity-building platform (PNG, Fiji)



Africa: TAs Under Implementation

Country	Title	System Transformation Area	Category
Algeria	Feasibility study and technical support for a waste-to-energy pilot project at a cement plant owned by Groupe Industriel des Ciments d'Algérie	ES	Mitigation
Burundi	Smart Irrigation & Rainwater Harvesting in Burundi	WEF	Adaptation
Comoros	Pre-feasibilityStudy for the Use of Photovoltaic Systems on the Roofs of Public Buildings in the Comoros, with a Connection to the Grid, and the Definition of a Net Metering Policy	ES	Mitigation
Cote 'd Ivoire	Development of Sustainable Biochar Production and Application for Climate Mitigation and Adaptation in Côte d'Ivoire	WEF	Adaptation
Cote 'd Ivoire	Smarter Farming: AI's Role in Ivorian Agriculture	WEF	Adaptation
DRC	Incubation Program to develop and scale-up conservation agriculture and sustainable agro-forestry practices and technologies in the Democratic Republic of Congo	WEF	Adaptation
DRC, Togo, Guinea, Senegal	Diagnosing the feasibility of a pilot Agrivoltaic technology project in West and Central Africa across four countries (DRC, Senegal, Guinea, Togo)	WEF	Adaptation
Gambia	Introducing Phase Change Materials (PCM) into the Gambia's cold chain to address post-harvest loss and other waste across the primary sector	WEF	Adaptation/Mitigation
Guinea	Assessment of Green Hydrogen Potential and Development of a National Strategy in Guinea	ES	Mitigation
Liberia	Feasibility and Viability Study for Implementing Blue-Green Infrastructure for Urban Resilience in Liberia	BI	Adaptation
Liberia	Provision of Technical Guidance to develop a renewable energy investiment framework to increase the share of renewable energy-based electricity generation to achieve Liberia's NDC commitments	ES	Adaptation
Mali	Capacity building of ESCOs on digital energy audits (energy systems, mitigation+adaptation) Signature month: November 2025	ES	Mitigation
Mozambique	Development of a Framework and Roadmap for a National Innovation System to foster low-carbon and climate resilient economic development in Mozambique	BI	Adaptation/Mitigation
Mozambique	Enhance resilience to floods by introducing technology for flood risk mapping and simulation to formulate relevant policies and counter measures in the most flood affected areas	WEF	Adaptation
Senegal	Development of a Decarbonization Roadmap in the Cement Sector through Advanced Technology Upgradation and Enhanced Standards	BI	Mitigation
Senegal	Floating Solar Panels in Senegal: Feasibility Study for Kaffountine Diémbéring, small coastal towns of lower Casamance		Adaptation/Mitigation
Tanzania	Support for the Establishment of Tanzania Climate Innovation Centre (TCIC) within the Tanzania Commission for Science and Technology (COSTECH).	BI	Adaptation/Mitigation
Togo	Resilience of fishermen, fishmongers and mangrove restoration in the maritime region of Togo	WEF	Adaptation
Tunisia	Capacity building of managers and technicians of the Tunisian Navigation Company (CTN) as well as national energy auditors and maritime transport stakeholders in terms of energy transition and the effect of GHG emissions on the climate	ES	Mitigation
Zimbabwe	Development of a Decarbonization Roadmap in the Cement Sector through Advanced Technology Upgradation and Enhanced Standards - Zimbabwe	BI	Mitigation

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TAs under various stages of implementation, in adaptation, mitigation and cross-cutting sectors. WEF = 8; Business & Industry = 2; Energy Systems = 5; Buildings & Infrastructure =5

Africa: Closed & New TA Requests

- Closed/nearing closure: Comoros (PV/net metering policy); SSFA-closed: Chad, Mali.

- **10 TAs contracted in the last 6 months.**

- Trends in Requests:
  - 3 requests from Botswana (**ESCOs-prioritize**, solar power for health facilities, and biogas)
  - **Under bidding: Burundi (insurance); Ivory Coast (AI in agriculture); Sierra Leone (aquaculture zoning).**
  - **Senegal – SF6 (in prep)**
  - **Ethiopia – cement (in prep)**
  - Trends in a mix of adaptation and mitigation.
  - Requests for projects with pilot demonstrations.



LAC: TAs Under Implementation

Country	Title	System Transformation Area	Category
Ecuador	Adoption of climate technologies applicable to Micro, Small and Medium Enterprises (MSMEs) in the floriculture sector in Ecuador.	BI	Adaptation
Ecuador	Implementation of improvements to the National Drought Monitor of Ecuador (MONSE) for the integration of a drought risk scenario module	WEF	Adaptation
Peru	Feasibility assessment to develop an aquaponics facility based in a semi-enclosed/protected environment as a climate change adaptation measure to be replicated in Peru	WEF	Adaptation
Saint Kitts and Nevis	Improvement of water supply management through a GIS-based monitoring and control system for water loss reduction in Saint Kitts and Nevis	WEF	Adaptation
Uruguay	Scaling up low-carbon, climate-resilient businesses led by women and young people in Uruguay	BI	Adaptation
Uruguay	Assessment of innovative adaptation technologies in cities of Uruguay	BI	Adaptation

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TAs under implementation (3 WEF, 2 Business and Industries, 1 Buildings and Infrastructure).

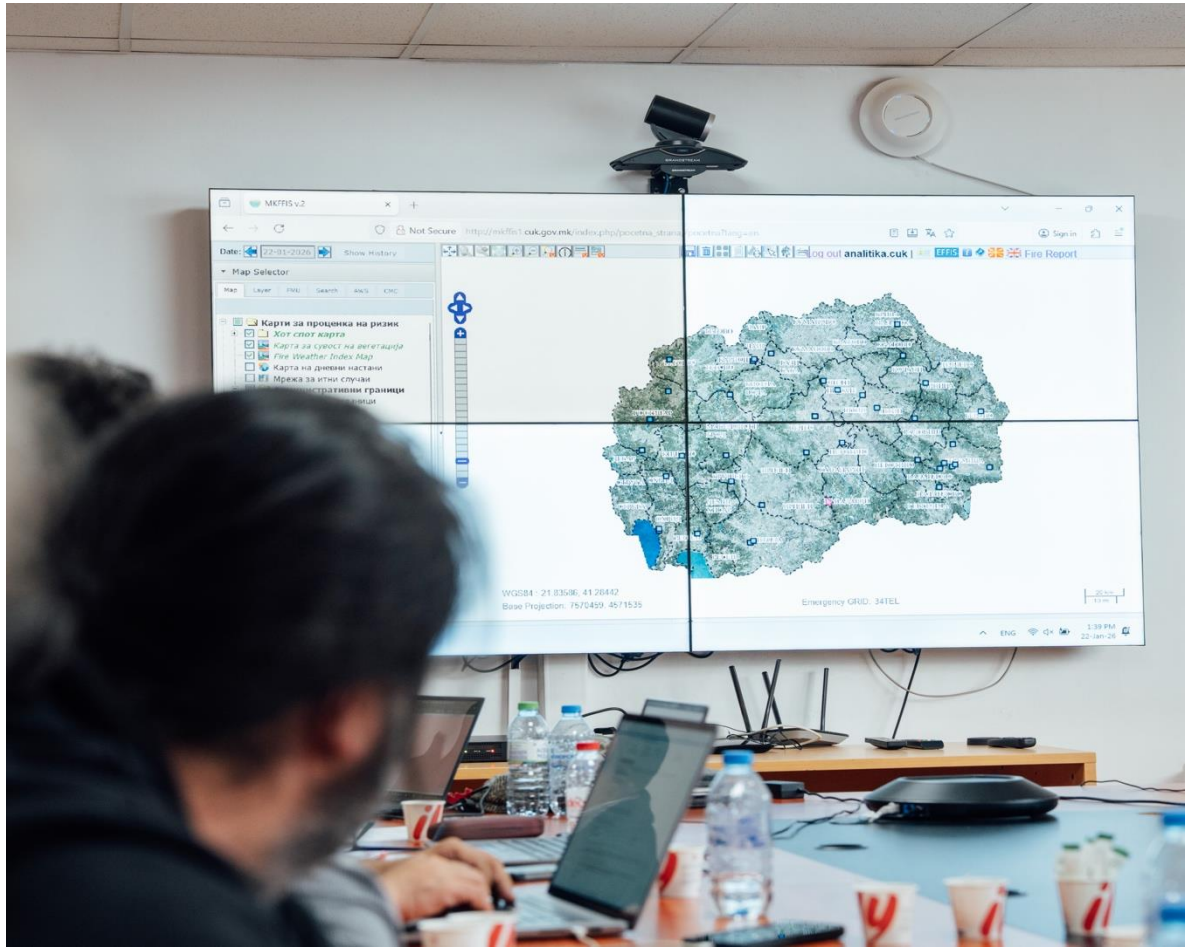
LAC: Closed & New TA Requests

- **2** TAs have been completed in the period October 2025-Feb 2026.
- **3** TAs contracted in the last 6 months.
- Trends in Requests:
  - •TA requests on Early Warning Systems, AI applications in the water and agriculture sectors, innovative technologies, soil restoration.
  - •Circular Economy.
  - •Technology needs assessment for NDC implementation, (Panama and Suriname).
  - •Colombia (forest fire), Costa Rica (mangroves), under contracting.
  - •Chile (AI water sector), Cuba (Agro-environmental observatory), under bidding.



Eastern Europe

- 1 TA under implementation in North Macedonia (Wildfires information system enhancement project in North Macedonia)



List of TA requests did not meet CTCN's 3rd PoW : Africa

Requests that were initially targeting AFCIA II which are now deemed ineligible

- **Togo**: solar cooking, Reducing the demand for firewood and charcoal by introducing domestic production of solar cooking technologies in Togo | Climate Technology Centre & Network | Mon, 04/20/2026
- **Eswatini**: still working with the country on collaboration opportunities with WMO (RP is available)
- **Uganda**: received during the NDE forum on floating solar panels for agriculture (Idea stage)
- **Botswana**: strengthen climate resilient clean cooking and energy security through scalable biogas technology deployment in underserved districts of Botswana (request received recently)
- **Botswana**: enhance climate-resilient health services through the deployment of solar PV and energy storage solutions for clinics in remote, off-grid settlements of Botswana (request received recently)
- **Togo**: e-mobility / non-motorised mobility (expression of interest received 1-2 years ago)
- **Eswatini**: E-mobility (expression of interest received 1-2 years ago)

Additional information: TA Process and 2025 global portfolio by 5 areas

Request Submission

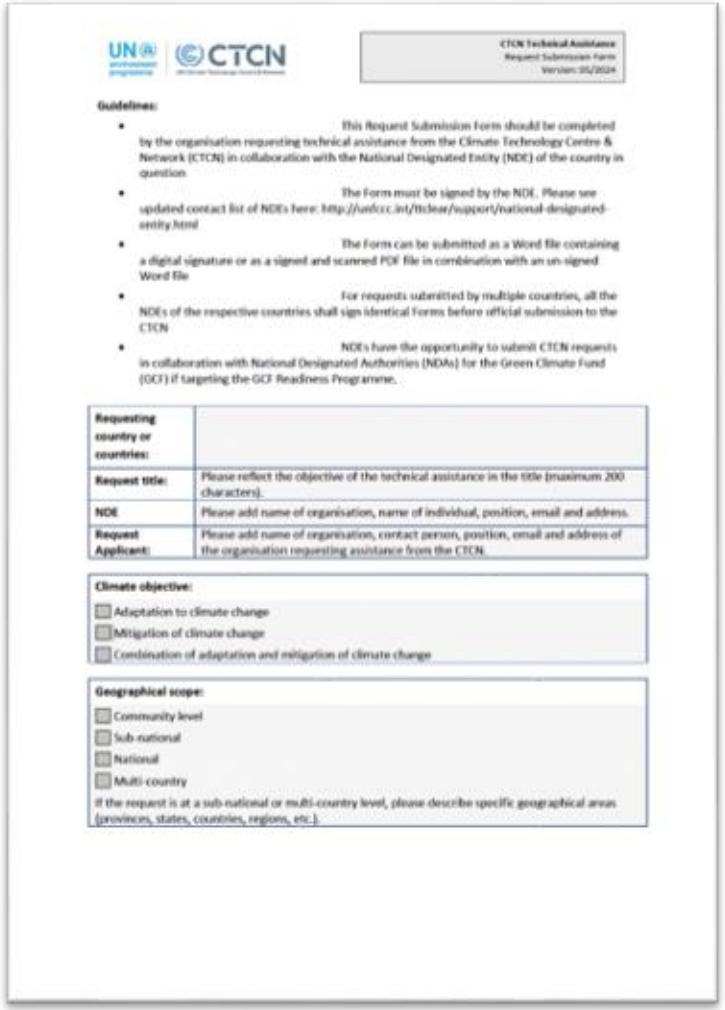
Interested parties in developing countries contact their national focal point (NDE) to request climate technology assistance, using the request template.

The NDE confirms the alignment of the request with its national climate priorities and passes it along to the CTCN.

Requests can be submitted on a rolling basis.

Best practices:

- Identification or alignment of climate technologies needs through national strategies, such as TNAs/TAPs
- Engagement of all relevant stakeholders before submission
- Check existing resources on CTCN website or WIPO Green Technology Database



CTCN Technical Assistance
Request Submission Form
Version: 05/2024

Guidelines:

- This Request Submission Form should be completed by the organisation requesting technical assistance from the Climate Technology Centre & Network (CTCN) in collaboration with the National Designated Entity (NDE) of the country in question
- The Form must be signed by the NDE. Please see updated contact list of NDEs here: http://unfccc.int/ttclear/support/national-designated-entity.html
- The Form can be submitted as a Word file containing a digital signature or as a signed and scanned PDF file in combination with an un-signed Word file
- For requests submitted by multiple countries, all the NDEs of the respective countries shall sign identical Forms before official submission to the CTCN
- NDEs have the opportunity to submit CTCN requests in collaboration with National Designated Authorities (NDAs) for the Green Climate Fund (GCF) if targeting the GCF Readiness Programme.

Requesting country or countries:	
Request title:	Please reflect the objective of the technical assistance in the title (maximum 200 characters).
NDE	Please add name of organisation, name of individual, position, email and address.
Request Applicant:	Please add name of organisation, contact person, position, email and address of the organisation requesting assistance from the CTCN.

Climate objective:

- ☐ Adaptation to climate change
- ☐ Mitigation of climate change
- ☐ Combination of adaptation and mitigation of climate change

Geographical scope:

- ☐ Community level
- ☐ Sub-national
- ☐ National
- ☐ Multi-country

If the request is at a sub-national or multi-country level, please describe specific geographical areas (provinces, states, countries, regions, etc.):

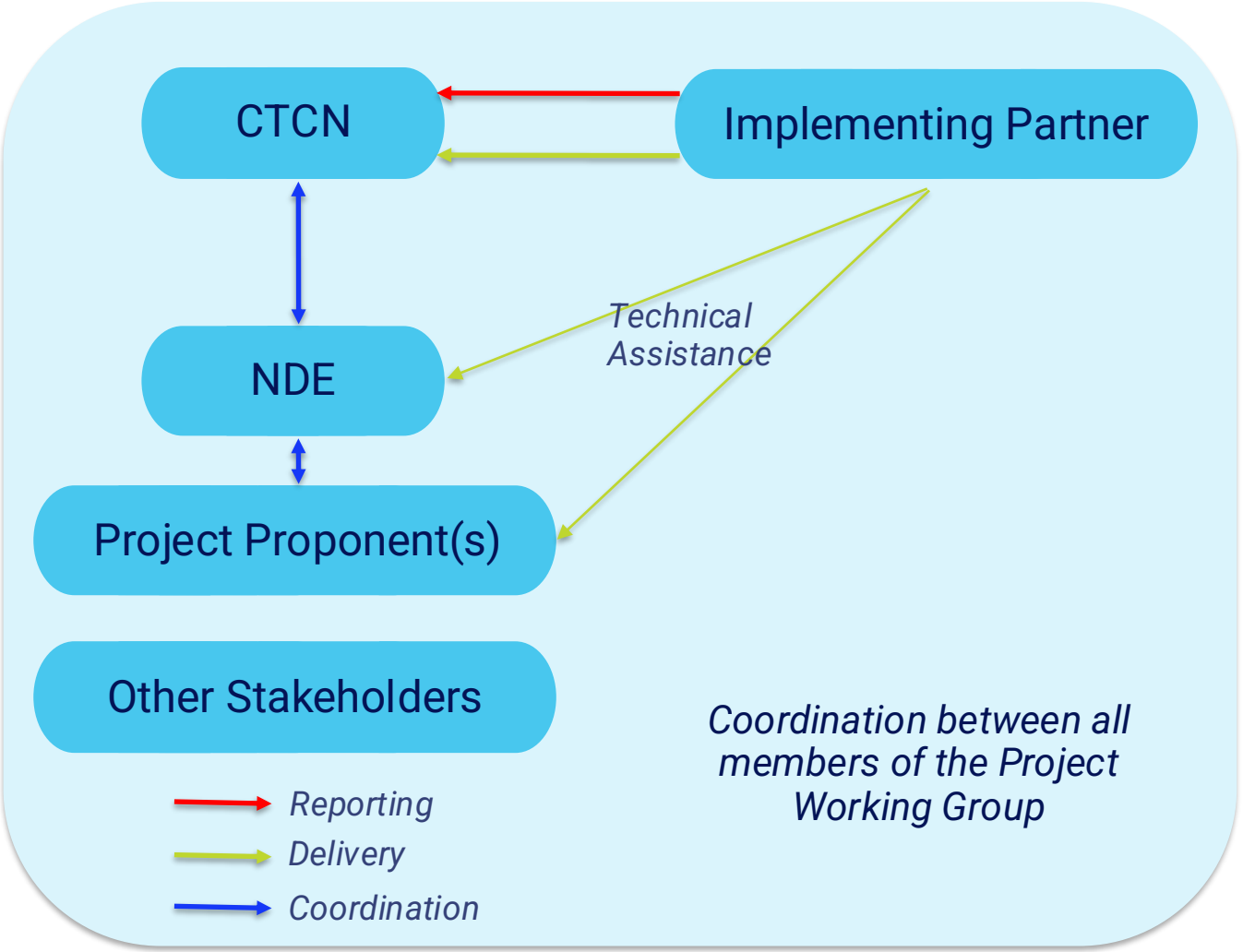
Project Implementation

The network member selected through a competitive bidding process implements the project according to the 'Response Plan'.

At the beginning of the technical assistance, the network member / implementing partner will develop a monitoring and evaluation (M&E) plan, detailed workplan, and gender assessment and action plan.

Regular project steering meetings will be organized to provide updates. Deliverables will be shared for review and approval with the NDE and proponent.

The CTCN conducts due diligence of deliverables and regular monitoring and evaluation.



Monitoring and Evaluation

United Nations Climate Change Technology Executive Committee

UN environment programme | CTCN UN Climate Technology Centre & Network

The CTCN regularly reach out to the NDEs, project implementers and project proponents to follow up to collect the lessons learned and impacts achieved in countries before, during and after implementation.

Beginning	During	End	After

M&E Plan

Template to define performance and success indicators for the technical assistance.

By Implementing Partner

Progress Reporting

Continuous reporting on the project progress and success.

By Implementing Partner

Closure Report

Template to evaluate final project performance and lessons learned

By Implementing Partner

NDE Feedback Form

Template to provide feedback on implementation and define next steps after closure

By NDE and Proponent

Post-implementation Form

Template to provide updates on post-implementation progress and impact for past technical assistances on an annual basis

By NDE and Proponent

2025 Water-Energy-Food nexus

Country	Objective	Title
Bahamas	Adaptation & Mitigation	Developing a national framework for the standardization of stalls and procedures for a climate smart street side vendor in the Bahamas (AFCIA 1)
Cameroon	Adaptation	Local climate resilience through synecoculture, a high-yield agricultural technique in the northern region of Cameroon (mainly in the commune of Garoua 2 and in Figuil (Mayo-Louti)) (EC CC&S)
Central African Republic	Adaptation & Mitigation	Production of affordable solar cookers in the deforestation-threatened Bangui region of the Central African Republic (EC CC&S)
Chad	Adaptation	Rehabilitation of wells in the commune of Liwa, capital of LIWA (Lake region), using solar-powered pumps and drawing up a guide to good practice for the consumption of this water, depending on the end use (drinking water, agriculture, livestock, sanitary in Chad (EC CC&S)
Haiti	Adaptation	Technical Assistance to identify and prepare a system of payments for ecosystem services, in order to manage and protect their watersheds in Haiti (EC CC&S)
Jamaica	Adaptation	Enhancing multi-scalar mapping and research on food security risk due to the impacts of climate change on rural and urban environments in Jamaica
Malawi	Adaptation	Using simple mobile technologies to scale up digital collection & processing of climate observations for adaptation actions in Malawi (AFCIA 1)
Mali	Adaptation	Pilot project for the sustainable management of wood resources through the promotion of solar cookers and solar energy for the operation of electric cookers in a context of climate change (EC CC&S)



Photo Credit: UN CTCN/Miranda Rikki Tasker

2025 Water-Energy-Food nexus (cont.)

Mozambique	Adaptation, Mitigation	Implementation of Water-Food-Energy nexus using digital technologies for local communities in Mozambique (AFCIA 1)
Nigeria	Adaptation	Empowering communities of Kaduna State, located in the North-west Nigeria with sustainable agricultural practices (Em-Hydro) (EC CC&S)
Sudan	Adaptation, Mitigation	Improving the efficiency and sustainability of water harvesting technologies in Sudan by providing technical assistance in terms of enhancing; technology transfer, capacity building, and research collaboration under EC Climate Change & Security Programme (EC CC&S)
Suriname	Adaptation, Mitigation	Enhance the resilience of Suriname´s water supply system by modelling drought risks and developing a roadmap of prioritized alternatives for aquifer recharge (AFCIA 1)
Thailand	Adaptation	Blockchain Technology for a real-time climate risk insurance system in Thailand's agricultural sector (AFCIA 1)
Zambia	Adaptation	Aquifer mapping technologies for Zambia (AFCIA 1)
Zimbabwe	Adaptation	Piloting of a reliable solar powered drying facility for mopane worms in the Gwanda rural District of Zimbabwe (EC CC&S)



Photo Credit: UN CTCN/Miranda Rikki Tasker

Spotlight: Nepal's Customized Weather and Climate Information System for Climate-Resilient Agriculture



2025 Buildings and Infrastructure

Country	Objective	Title
Colombia	Adaptation, Mitigation	Sustainable Cuerval: Strategies for conservation, restoration and monitoring of the mangrove areas of the Cuerval for adaptation and mitigation with a focus on the integration of peace in climate action in Colombia (EC CC&S)
Georgia	Adaptation	Building up integrated monitoring and early warning forest fires detection system in the Borjomi - Kharagauli National Park by innovative remote sensing tools
Ghana	Mitigation	Development of Green Building Guidelines and Standards for Ghana
Malaysia	Adaptation	Development of a Multi-Hazard Platform for forecasting local level climate extremes and physical hazards for Iskandar Malaysia (AFCIA 1)
Mali	Adaptation	Data-driven approach in flood mitigation: developing real-time mapping of floods in Mali (AFCIA 1)
Uganda	Adaptation, Mitigation	Technical Assistance Towards the Development of a Project Proposal for the Implementation of Climate Adaptation and Mitigation Technologies to Address Climate Challenges in Specific Sectors Based on Uganda's Technology Needs Assessment Outcomes



Photo Credit: UN CTCN/Miranda Rikki Tasker

2025 Business and Industry

Country	Objective	Title
Chile, Dom Rep, Uruguay, Costa Rica	Adaptation, Mitigation	Multi-country Circular Economy Finance for MSMEs
Uganda	Adaptation, Mitigation	Strengthening Waste Management Policymaking in Uganda in Response to Climate Change (Pro-bono K)



2025 Energy Systems

Country	Objective	Title
Burkina Faso	Adaptation, Mitigation	Reinforcing the implementation of actions to mitigate and adapt to climate change by developing solar energy systems for off-grid agro-industrial facilities through the establishment of a "Community Solar Platform" (EC CC&S)
Kenya	Mitigation	Development of a SF6 Phase-out Roadmap and Pilot Projects in Kenya (EC ICS)
Tanzania	Mitigation	Feasibility Study of Optimal Design Conditions for Biogas Plant for the Improvement of CH4 Capture Efficiency in Tanzania (Pro-bono K)
Timor-Leste	Mitigation	Formulating a National Electricity Grid Code and the Definition of a Net Metering Policy in Timor-Leste



Photo Credit: UN CTCN/Miranda Rikki Tasker

2025 Sustainable Mobility

Country	Objective	Title
Tanzania	Mitigation	Developing a national framework for deploying and scaling up E-Mobility in Tanzania



Photo Credit: TRi Tanzania

Spotlight: Tanzania e-mobility

- CTCN Technical Assistance (completed Jan 2025) supported the development of the National EV Policy Framework and key studies to establish the foundation for the e-mobility transition
- Since then, consultations with key stakeholders continued, a technical white paper was developed for each institution to commit to their responsibilities
- Stakeholders are now looking into implementing fiscal incentives, finalizing EV charging tariffs and regulations, expanding charging infrastructure planning, and strengthening skills & private sector partnerships



Working Group Visit to the Dar es Salaam Institute for Technology (DIT) retrofitting workshop

Collaborative Research, Development and Demonstration (cRD&D) TA in Bangladesh

Feasibility Research of Solar Electric-Based Cold Warehouse equipped with Low-temperature Latent Heat Material for Fruit Storage in Bangladesh Climate Conditions

- Bangladesh's agricultural sector suffers 40% post-harvest losses of perishable goods due to inadequate cold storage.
- CTCN TA aims to develop portable solar-powered cold storage units for rural areas, reducing losses, improving food security, and enhancing climate resilience.
- Key activities include designing the storage model, piloting units, and creating a sustainable business model.





