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United Nations Climate Change
Technology Executive Committee

UNFCCC Technology Mechanism - Engagement of Eastern European NDEs

Virtual Session
27 October 2025

Agenda

United Nations Climate Change
Technology Executive Committee

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Time (CET)	Agenda item
09:00 – 09:05	**Opening and Welcome**
09:05 – 09:25	**Tour de Table**
09:25 – 09:30	**Warm-up Questions (Mentimeter)**
09:30 – 10:15	**Introduction to the UNFCCC Technology Mechanism** Questions and Answers
10:15 – 11:00	**Training on CTCN Procedures** Questions and Answers
11:00 – 11:15	**Coffee Break**

Agenda

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Time (CET)	Agenda item
11:15 – 12:00	**Technical Assistance Case Studies from the Region** Questions and Answers
12:00 – 12:30	**Mapping and Discussion of Regional Priorities (Mentimeter)**
12:30 – 12:50	**Preview of the Regional NDE Forum for Eastern Europe** Questions and Answers
12:50 – 13:00	**Wrap-up and Closing**

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Opening remarks

Stephen Minas
Chair, CTCN Adivsory Board

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Tour de Table

Please introduce yourself!

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Warm-up Questions

Scan and provide your answers!

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Introduction to the UNFCCC Technology Mechanism

Virtual Session
27 October 2025

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1 Introduction to the UNFCCC Technology Mechanism

UNFCCC Technology Mechanism

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From the convention, the Conference of Parties (COP) introduced three pillars of climate change in 2010, and the operating/implementing arms were established in 2012-13.

- UNFCCC Technology Mechanism
- UNFCCC Financial Mechanism
- UNFCCC Capacity Building

UNFCCC Technology Mechanism: To enhance action on climate technology development and transfer

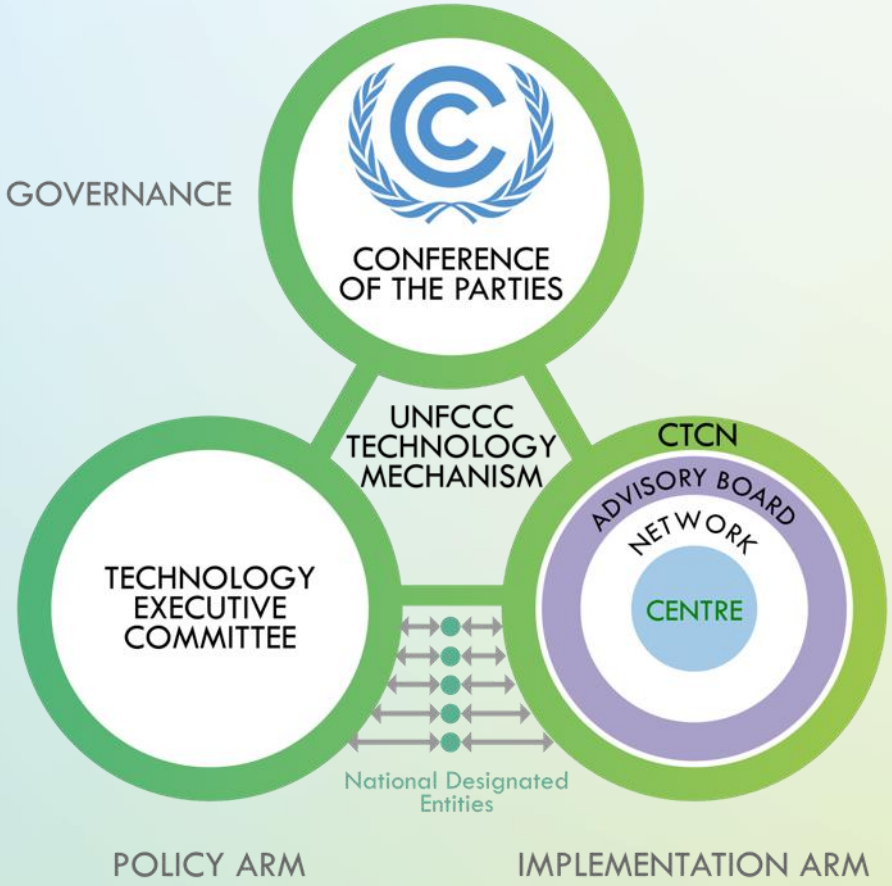
Technology Executive Committee (TEC) Policy arm

- Recommends and addresses technology policy issues
- Facilitates development of technology planning tools

Climate Technology Centre and Network (CTCN) Implementation arm

Three core services:

- Technical assistance,
- Collaboration and Stakeholder Engagement through information and knowledge sharing,
- Network and capacity-building



Joint Work Programme of the Technology Mechanism 2023 - 2027

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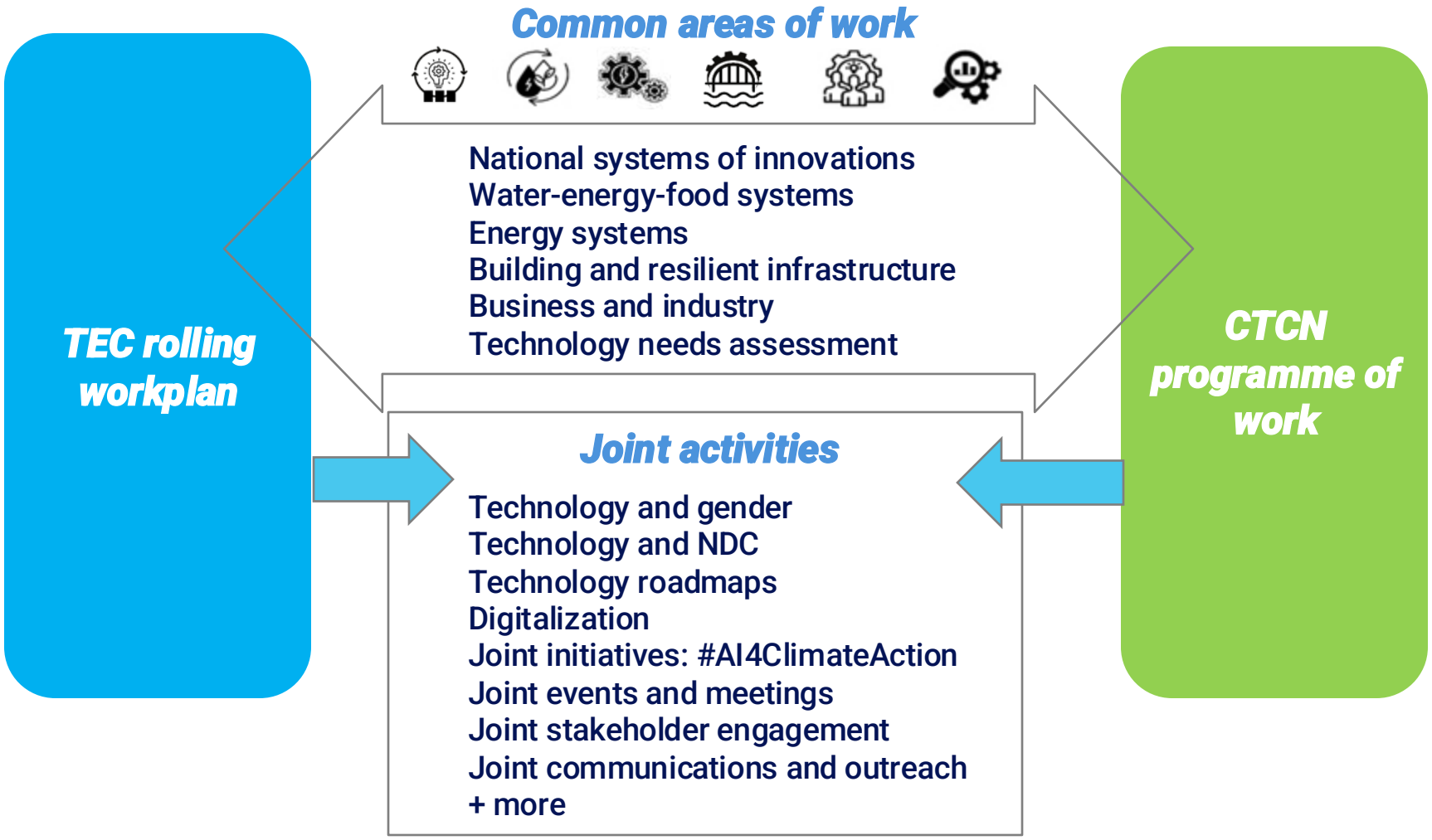

UNFCCC Policy arm: TEC's Mandate

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- **Develop** policy papers and knowledge products on technology transfer
- Provide an overview of countries' climate technology needs and **analyze policy and technical issues** related to climate technology development and transfer
- **Recommend actions** to promote climate technology development and transfer
- **Recommend guidance** on climate technology policies and programmes
- Promote and facilitate **collaboration** between climate technology stakeholders
- **Recommend actions to address barriers** to climate technology development and transfer
- Seek cooperation with climate technology stakeholders and **promote coherence across technology activities**
- Catalyse the development and use of climate **technology roadmaps and action plans**

TEC Rolling Workplan 2023-2027

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Part of the joint work programme of the Technology Mechanism, the TEC rolling workplan for 2023-2027 provides a framework for the TEC to deliver on its mandate in the era of implementation of the Paris Agreement through promoting science-based and systemic approaches, bolstering transformative technology solutions, focusing on high-impact, high-potential sectors and actions and leveraging collaborative partnerships across four workstreams:

WS1

NSI, Collaborative RD&D & General-Purpose Technologies

WS2

TNAs & technology planning tools to support NDC implementation

WS3

Transformative & innovative solutions

WS4

Collaboration & engagement with other UNFCCC processes/bodies & other UN agencies

Informed by

- Parties' guidance
- Mandates and functions of the TEC
- Technology Framework
- Science
- Transformative solutions
- NDCs
- Climate goals and the SDGs
- Gender-responsiveness
- Mindful of resource implications
- Pragmatic approaches

UNFCCC Implementation arm: CTCN's Mandate

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"Stimulate technology cooperation and enhance the development and transfer of technologies to developing country Parties at their request" through small scale catalytic projects

Key Services Offered:

1. **Technical Assistance:** Tailored technical assistance designed to **overcome barriers to deploying climate technologies** (Feasibility studies; policy reform, cost benefit analysis, technology options, etc)
2. **Network and Capacity Building:** Empowering countries through skill development and knowledge transfer (annual regional forums, thematic workshops)
3. **Information and knowledge sharing:** Climate Tech Portal: (www.ctc-n.org), publications and webinars

Global Network:

- **CTCN today engages with 160+ countries** through their nationally appointed Climate Technology Focal Points, known as National Designated Entities (NDEs)
- CTCN services are supported by leveraging the expertise of over 800 technology companies and institutions that are part of the CTCN Network, providing specialized knowledge and solutions to meet climate technology needs worldwide.

CTCN's 3rd Programme of Work 2023-2027

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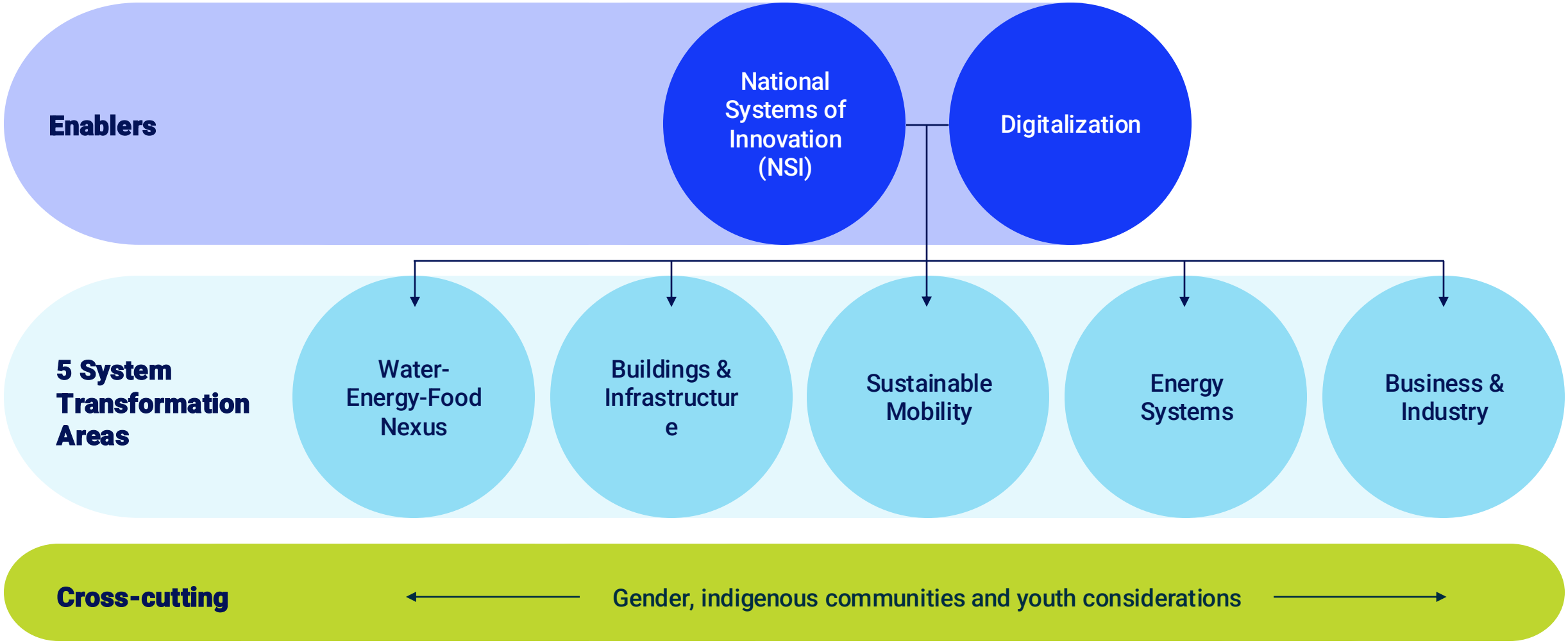

2

Technical Assistances

Types of Technical Assistances

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Technical Assessments

Research and development of technologies, piloting and deployment in local conditions, feasibility studies

Governance and Planning

Sectoral roadmaps, strategies and recommendations for law, policy and regulations

Capacity Building

Stakeholder engagement, trainings and workshops, communications and awareness raising

Tools and Methodologies

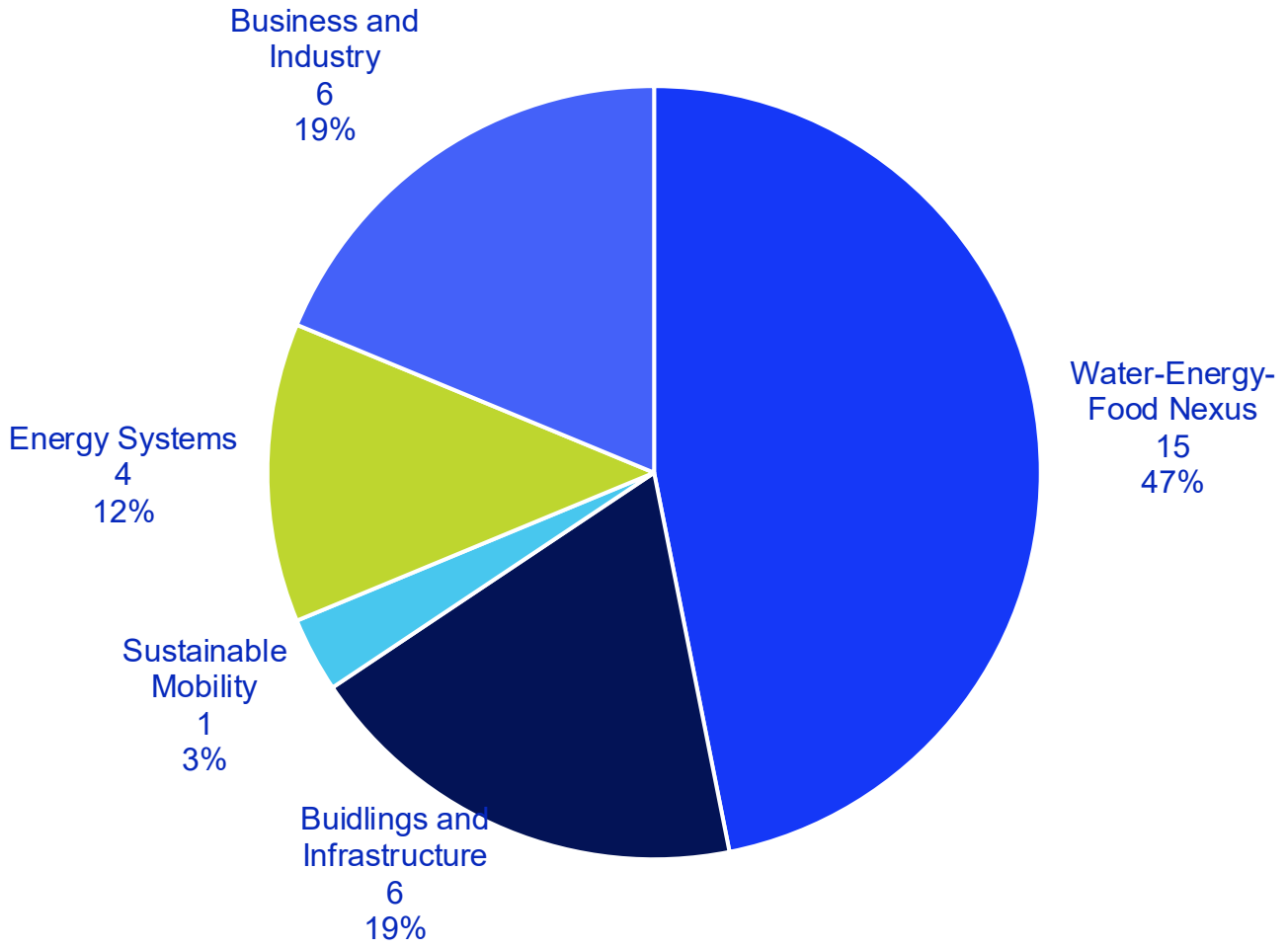
Decision-making tools, information provision, technology identification and prioritization

Implementation

Collaboration with Financial Mechnism, private sector engagement and market creation

Technical Assistances since 2014

- Between 2014 to 2025, the CTCN has received 439 TA requests from 115 developing country Parties.
- 32 technical assistance projects were completed between October 2024 and September 2025



Technical Assistances in the Region

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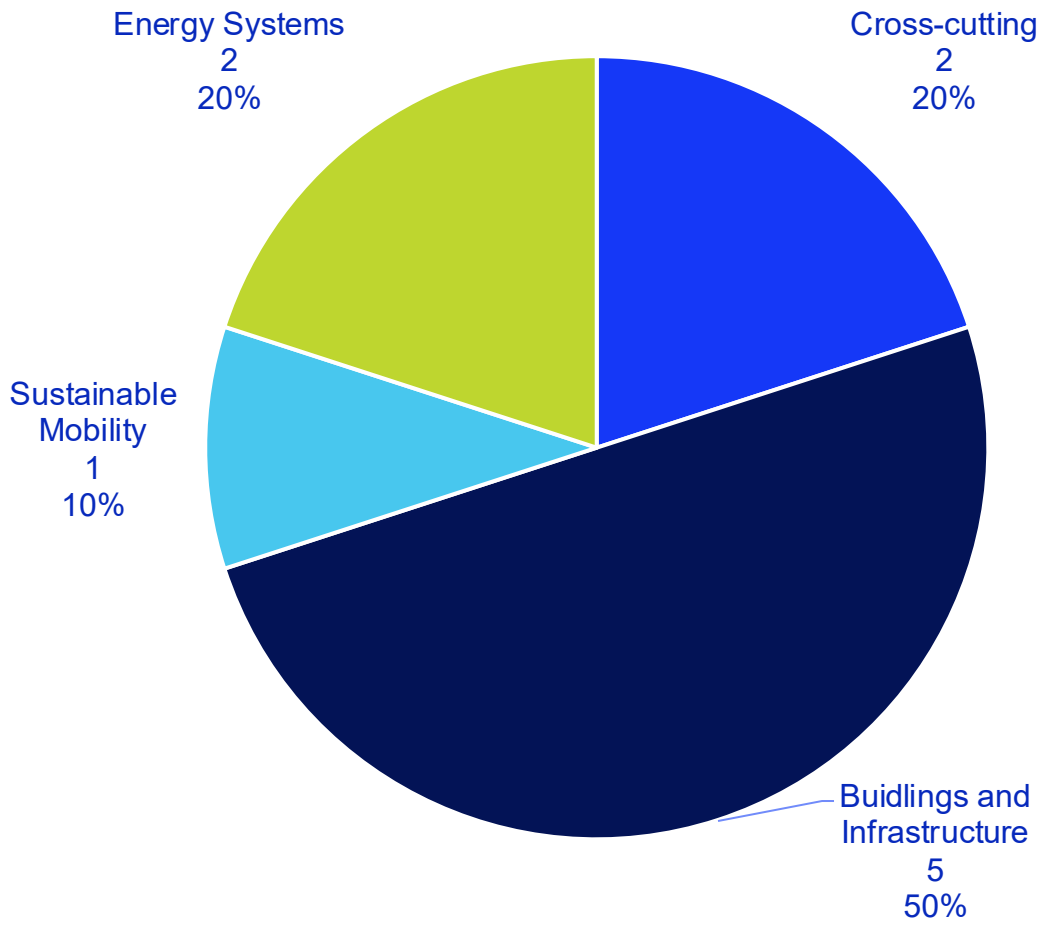
- Between 2014 to 2025, the CTCN has delivered a total of 10 technical assistance projects in Eastern Europe



Technical Assistances in the Region

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Country	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	Total
Albania	1										1
Armenia		1									1
Azerbaijan			1								1
Bosnia & Herzegovina	1										1
Georgia		2	1				1		1		5
Montenegro											0
North Macedonia										1	1
Moldova											0
Serbia			1								1

I. Digitalization

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Digitalization in developing countries offers transformative climate action opportunities, enabling efficiency, innovation, and economic growth. Its rapid adoption also contributes to climate challenges, including rising e-waste and energy-intensive data centers.

Category	Example
Technical assistance	Development of an agrometeorological information system for decision-making in the agricultural sector in Mali
Capacity building	• ('22) Global thematic program on digitalization in Agriculture • ('24) Regional thematic programs on #AI4ClimateAction
Knowledge management	TEC Information Note on AI for Climate Action

II. National Systems of Innovation

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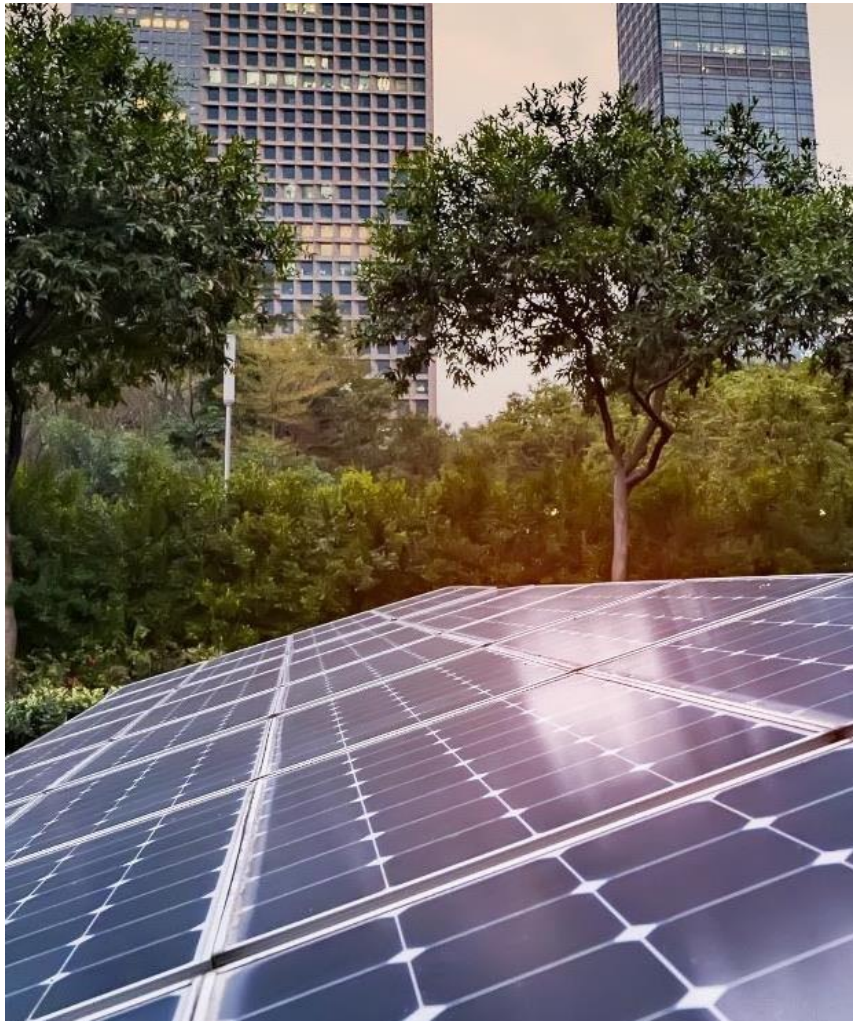
National systems of innovation are crucial for developing countries, fostering endogenous capacities for climate innovation. They enable technological development, collaboration, and adaptation to climate challenges by promoting research, enhancing skills, and supporting the creation of locally tailored sustainable solutions.

Category	Example
Technical assistance	Framework and roadmap for a National Innovation System to foster low-carbon and climate resilient economic development in Zambia
Capacity building	• ('23) Bridge-building workshop • ('24) Learning visits
Knowledge management	TEC policy paper on good practices and lessons learned on the setup and implementation of National Systems of Innovation, including six country case studies



a. Water-Energy-Food Nexus

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Water, energy, and food are linked in a complex web of relationships in the hydrological, biological, social, and technological spheres. Demand for all these resources is rising rapidly, driven by an increasing global which is quickly urbanizing, alongside changing diets, economic growth, and rising living standards.

Category	Example
Technical assistance	Formulation of Kenya's 2020 – 2030 national agroforestry strategy
Capacity building	('22) Global thematic program on Innovation in Water sector
Knowledge management	Climate Technologies for Agrifood System Transformation: Placing food security, climate change and poverty reduction at the forefront **(TEC Brief)**

b. Buildings and Infrastructure

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The building and construction sector is responsible for about 37% of GHG emissions, considering energy consumption and embedded carbon. Continuous growth comes from urbanization and rising energy needs for appliances and equipment.

Category	Example
Technical assistance	Formulating a National Electricity Grid Code and the Definition of a Net Metering Policy in Timor-Leste
Capacity building	(‘22) Co-creating Collective Solutions: Network Engagement Program
Knowledge management	

c. Sustainable Mobility

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Motorized transport on land, sea and air remains dependent on internal combustion engines that generally run on fossil fuels. Transport accounts for more than a third of GHG emissions from end-use sectors.

Category	Example
Technical assistance	Development of Framework for Real-Time Transport Information Systems for Public Transport in Greater Dhaka, Bangladesh
Capacity building	('22) Co-creating Collective Solutions: Network Engagement Program
Knowledge management	Gender-responsive technology and infrastructure for sustainable urban mobility (TEC Brief)

d. Energy Systems

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Energy demand in developing countries is projected to expand by two-thirds by 2050. Annual capital spending on clean energy in developing economies will need to multiply by over seven times, to more than USD 1 trillion, in order to remain on track to meet goals.

Category	Example
Technical assistance	Leapfrogging markets to energy-efficient refrigerators and distribution transformers in SADC region
Capacity building	('23) Regional Thematic program on Green Hydrogen
Knowledge management	Green Hydrogen Technologies for Systems Transformation: 10 examples of national strategies, plans and projects

e. Business and Industry

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Business and industry in developing countries face significant challenges, including carbon-intensive processes, limited access to green technologies, and inadequate infrastructure. Addressing these challenges requires investment in sustainable infrastructure and practices to allow low-carbon and resilient economic growth.

Category	Example
Technical assistance	Implementation of energy audits to monitor and reduce GHG emissions in the cement sector in Republic of Congo
Capacity building	('23) GCF Private Investment for Climate Conference ('24) Voluntary Technology Talks – LDCs and SIDS
Knowledge management	Integrating hard-to-abate industries in the process of preparing and implementing NDCs (TEC Brief)

Cross-cutting

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Gender Mainstreaming

Promoting gender-responsive climate technologies, equal access, and women's participation through the Gender Policy and Workplan

Connecting stakeholders to experts via the Gender and Climate Tech Expert Roster

Supporting the Gender Just Climate Solutions Award, recognizing grassroots initiatives that empower women and advance gender equity in climate action

Youth Engagement

Engaging the youth by offering both, technology services and providing young people with a platform to network, create synergies and learn from each other through the Youth Climate Innovation Programme

Indigenous Communities

Fostering collaboration with the WIPO Indigenous Peoples and UNFCCC IPO teams to identify, document, and integrate Indigenous Technologies into WIPO's database, ensuring their preservation, accessibility, and recognition within the global intellectual property framework.

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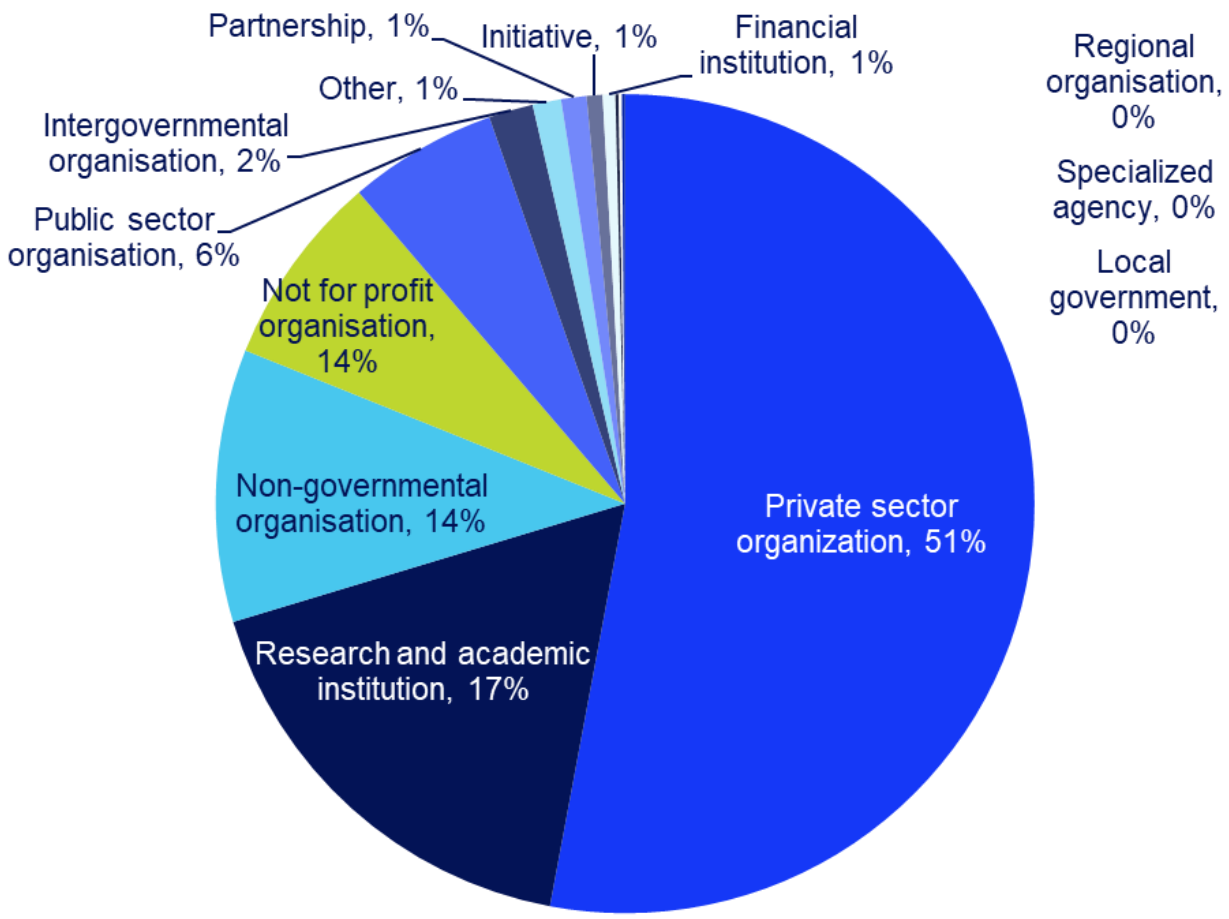
3 Network and Capacity Building

Current Overview of the Network

- 958 members in total (Oct 2025)
- Over half of the Network members represent the private sector organizations, followed by the research and academic institutions
- Geographically, the Network members are located in Asia Pacific (33%), Africa (12%), Europe and America (43%), and LAC (12%)



How to become a Network Member

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- One of the following institutional structures: **national technology centre or institution; regional climate technology centre or network; intergovernmental, international, regional or sector organization, partnership or initiative that contributes to technology deployment and transfer; or research, academic, financial, non- governmental, private sector or public sector organization, partnership or initiative.**

- Demonstrated **capability in projects/initiatives aimed at development, transfer and deployment** of climate technologies applicable for developing countries, including expertise in policy, capacity building and/or investment.

- Operational and organizational stability, as evidenced by financial, human and other resources relative to their mandate and size that could reasonably be deemed sufficient to deliver the organization's mandate.

- A pledge to comply with the CTCN code of Conduct.

Join the Network --> https://www.ctc-n.org/networking-and-collaboration/network

Stakeholder Engagement: Scaling up and Financing

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The CTCN supports the access to scale-up opportunities and financing through various means, disposing of a large partner network including the UNFCCC Financial Mechanism, IFIs and DFIs.

Best practices:

- Coordination with UNFCCC Financial Mechanism focal points (GEF, GCF), Adaptation Fund at a national level and international level (supported by CTCN through coordination with GCF Secretariat)
- Development of the request and response plan with clear next steps for scale-up and financing in mind, e.g. by preparing pilot projects or concept notes
- Early engagement and inclusion of national and international financial and development institutions during the implementation

10 Years of CTCN Capacity Building

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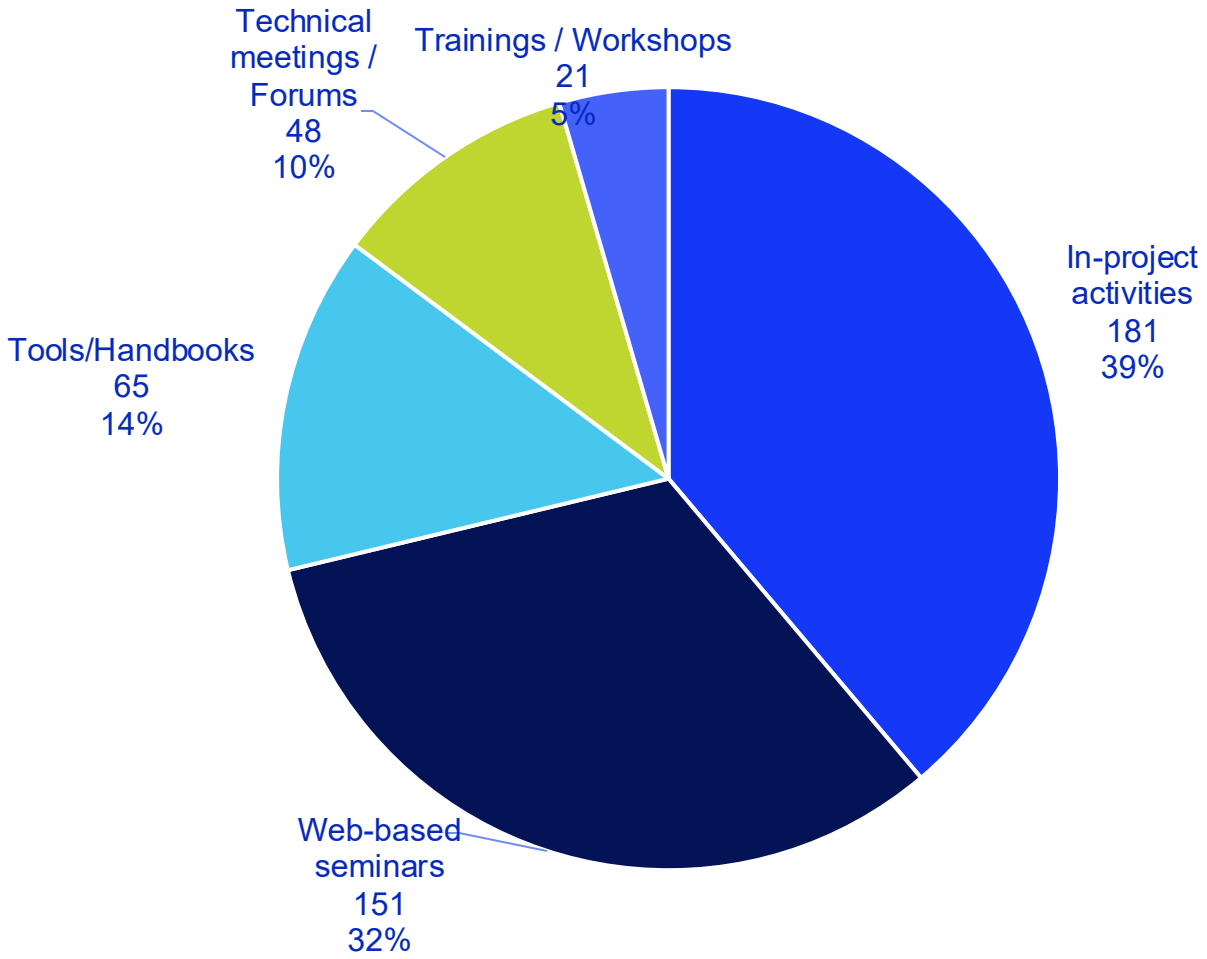
466 **CB activities in total**

3.8 **CB activities per month on average**

4,637 **Individuals benefited**



Capacity Building Programmes

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I. Global Thematic Capacity Building Programme

- Region-tailored programme facilitating multi-regional/country TA ideation

II. Network Engagement Programme

- SIDS and LDCs targeted activity

III. International RD&D Programme

- Engagement of global research institutes to the existing/arising partnership opportunities from Private sectors

IX. Stakeholder Engagement Programme

- Annual NDE Forum for in-person bilateral with CTCN
- Direct collaboration with financial mechanisms, including MCFs, MDBs, and DFIs

Capacity Building Programmes

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Thematic capacity building programmes for NDEs	
SF6 Learning Programme: Phase-out of highly potent GHGs in energy grids (2023)	3-day SF6 Learning Programme attended by 11 NDEs, as well as representatives from technology providers and financial institutions.
Green Hydrogen technologies (2023)	Region-specific Programme on green hydrogen delivered to 105 NDEs to share theories and applications on green hydrogen.
AI for Climate Action (2024)	Region-specific Programme on AI for climate action delivered to 94 NDEs to build awareness on mitigation and adaptation opportunities, and regulatory and environmental challenges of AI.
Climate Finance (2025)	Region-specific Programme on climate finance delivered to (so far) 83 NDEs to deepen the understanding on leveraging climate finance for technology implementation

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4 Information and Knowledge Sharing

CTCN Website & Resources

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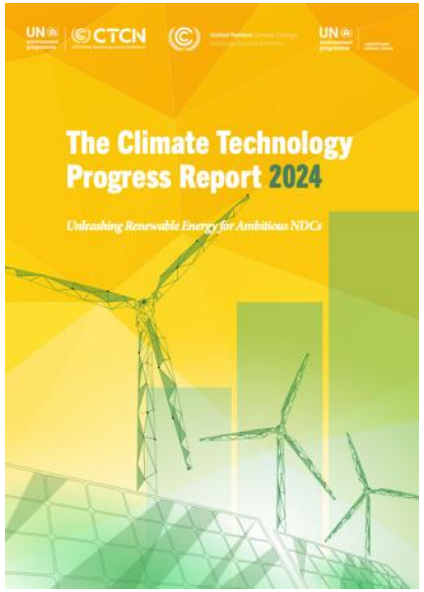
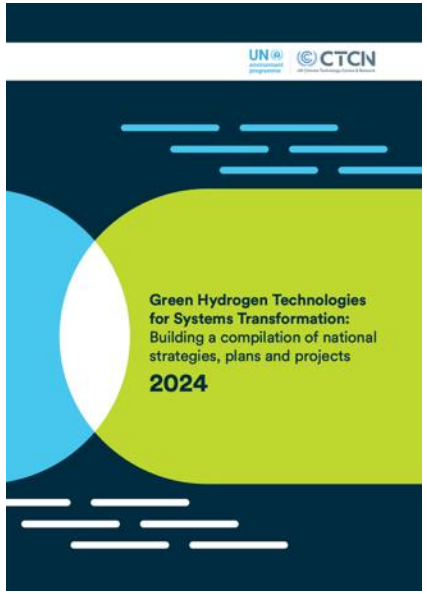
Through the CTCN website, you can access many resources, including blogs, fact sheets, reports and events. Please sign up for our monthly newsletter and follow us on social media!





5 Roles and Responsibilities of NDEs

Establishment of the National Designated Entity

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Decision 4/CP.13
2007 (Bali)

8. Invites Parties in a position to do so to identify and designate their **national entity for the development and transfer of technologies** and to communicate this to the secretariat by the fourteenth session of the Conference of the Parties;

Decision 14/CP.18
2012 (Doha)

12. Invites Parties to nominate their **national designated entities** for the development and transfer of technologies pursuant to decision 2/CP.17, annex VII, and decision 4/CP.13, paragraph 8, and to communicate this information to the secretariat by 29 March 2013, in order to facilitate the operationalization of the Climate Technology Centre and Network;

Roles and Responsibilities

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Role	Specific action
Act as National Technology Focal Point	• Engage national stakeholders on climate technology related activities, to identify collaboration and synergies • Facilitate interactions between CTCN/TEC and in-country stakeholders, as needed • Ensure the integration of climate technology issues into national, sectorial and local development plans
Managing the national submission process of technical assistance requests to the CTCN	• Lead in-country consultative processes with key decision-makers • Provide guidance and oversight for the development of requests that well aligned with CTCN support, • Monitor the effectiveness of CTCN assistance
Increase collaboration and networking opportunities within the CTCN – including through Network membership	• Disseminate information to in-country organizations on the opportunity to participate in the Network • Serve as Network member and act as liaison between other national Network members and the CTCN
Contribute to increase information and knowledge sharing through the KMS	• Provide the CTC with documents and information that are relevant to the Knowledge Management System

Other NDE Engagements

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Participation in NDE Forum (UNFCCC Technology Mechanism)
Annual organization of regional NDE Forums to provide updates on CTCN and TEC activities, share emerging topics, receive feedback from NDEs, and map their needs.

Bi-ennial NDE Survey (UNFCCC Technology Mechanism)
Collection of feedback from the NDEs on ex-post impact of the CTCN and TEC activities, mapping of needs, understanding of awareness around the role of the NDE.

Coordination with other Climate Change-related focal points (UNFCCC Technology Mechanism)
Coordination with other focal points such as the GCF National Designated Authority (NDA), GEF focal point, Adaptation Fund focal point, TNA focal point, Climate Change focal point.

Provision of Feedback and Updates on Technical Assistances (CTCN)
Completion of the NDE Feedback Form at the end of technical assistances and the annual Post-Implementation Form for up to 4 years after the completion of each technical assistance.

Notification of Changes of the NDE

An interested Party to the UNFCCC should have its National Climate Change Focal Point communicate its selected NDE to the UNFCCC Secretariat. If you are unsure whether your country has an NDE, check the UNFCCC list of current NDEs.

To update your country's details, ask your UNFCCC national focal point to contact secretariat@unfccc.int

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Questions and Answers

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