

Erwin Rose, Chair of the CTCN

TEC-CTCN Joint Session

19th April 2024





CTCN 2023-2027 Programme of Work implementation: update

Technical Assistance Implementation (2022-23)





106

developing countries served



169 million

anticipated beneficiaries



90

technical assistance completed



287 million

anticipated funding leveraged for developing countries, 21% leverage ratio



expected tonnes of CO₂eq reduced per year

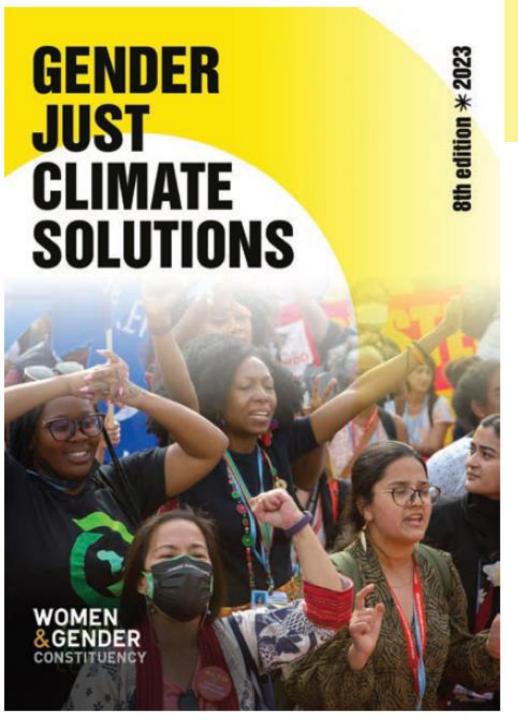


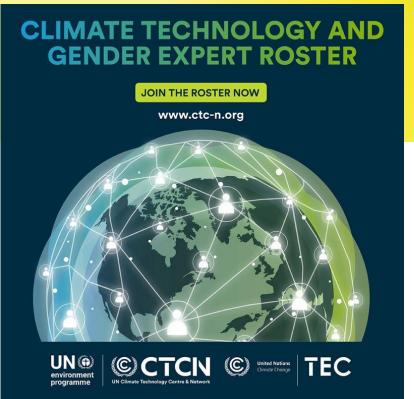
Network members from

840

technology companies and institutions around the world

















COP28 Highlights

CTCN calendar at COP28

| UN® | (C) CTCIN |
|--------------------------|--|
| environment programme | UN Climate Technology Centre & Network |

| Date | Title | Co-/Organizers | |
|--------|--|--|--|
| 1 Dec | Road to Carbon Neutrality based on Digital Transformation | Korean Presidential Commission on Carbon Neutrality and Green Growth | |
| 2 Dec | Showcasing the digital climate vulnerability map of Uganda | CTCN, UNEP CCC and Ministry of Water and Environment, Uganda | |
| 3 Dec | On the Pathway to Decarbonize Electricity Grids: SF6 Transparency and Phase-out | CTCN and National Designated Entity (NDE) Germany | |
| 5 Dec | Gender Just Climate Solutions Award & Gender Roster Announcement | CTCN and the Women Engage for a Common Future (WECF) | |
| 5 Dec | A Stocktake: From climate technology needs to implementation | UNEP, UNEP CCC, CTCN | |
| 5 Dec | Building capacity for demand-driven technology and innovation in cities | WIPO - CTCN | |
| 5 Dec | Announcement of new programmes and expansion of the AFCIA Partnership | Adaptation Fund Climate Innovation Accelerator (AFCIA) - CTCN | |
| 6 Dec | Digital readiness of developing countries: how it can accelerate climate action | TEC, CTCN, GIZ, and Data Economy | |
| 6 Dec | Water-Food-Energy Nexus Framework for Just Transition and Building Climate Resilience | Ministry of Natural Resources, Environment and Climate of Malaysia | |
| 6 Dec | Innovative technologies in mitigation and land restoration: Finding solutions for accelerated uptake -Technology Green Book Launch | WIPO, UNCCD & CTCN | |
| 8 Dec | Uniting for Climate Actions: Calling for International Technology and Innovation Cooperation | COP28 Presidency, CTCN, TEC | |
| 8 Dec | Stimulation of the collaborative climate technology RD&D | CTCN-TEC | |
| 9 Dec | High-Level Event on Artificial Intelligence for Climate Action | COP28 Presidency, CTCN, TEC | |
| 11 Dec | Asia-Pacific Super Energy Highway | Korea Institute of Energy Research | |

Uniting for Climate Action: Calling for International Cooperation on Technology & Innovation





The science is clear: we need ambitious action and we need it quickly.

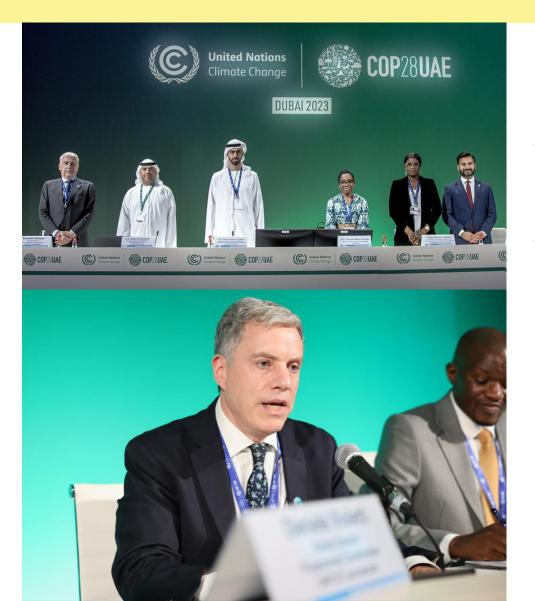
The good news is we already have proven technologies available to us, and thanks to the work of CTCN, a strong business case for these technologies being rolled out in developing countries.

Now we need to bring together both finance and resources to scale the capacity building and technology transfer we need to deliver low carbon and climate resilient development for those communities most impacted by climate change.

Inger Andersen, Executive Director of UNEP

Artificial Intelligence for Climate Action





Harnessing artificial intelligence as a strategic asset to mitigate climate change involves integrating it into national policies and plans.

This integration facilitates the use of data analytics to align policy with real-time climate data, thereby enhancing its efficacy and advancing technological development and scientific discovery in the field of energy.

These measures and policies should not be viewed in isolation, but rather as a unified global initiative, acknowledging that climate change transcends geographical boundaries and requires concerted global efforts.

H.E. Omar Sultan Al Olama, Minister of State for Artificial Intelligence, Digital Economy and Remote Work Applications, United Arab Emirates

COP28 Social media activities & community engagement





LinkedIn

33 posts, 39 reposts

- •Profile views increased by 77.8% (1280 views), 68.7% increase in unique visitors (506 views);
- •Reactions on the CTCN's page increased by 239.4% (896 reactions);
- •CTCN's page comments increased by 516.7% (37 comments);
- •Content shared received 36 210 impressions;
- •Overall # of clicks received 2 597 clicks;

Facebook

25 posts, 16 reposts

•Facebook profile views increased by 95.9% (143 views)

•Followers increased by 33.3% (+14 new followers)

People reached increased by 151.3% (3887 reached)

Engagement increased by 620% (712 interactions)

X (former Twitter)

28 tweets, 48 retweets

•Tweet impressions: 5.9K

•Profile visits: 2 754 (+54.5%)

•Total # of followers: 4 884 (+104 followers)

UN Climate Technology Centre and Network (CTCN) **OUNFCCC CTCN**

•New followers increased by 132.2% (+541 followers); 's digital #climatevulnerability map, dev w/ @UNEPCCC, leverages data to pinpoint risks & hotspots. A pivotal step towards informed #climateaction & a scalable resource 4 countries battling similar challenges.





CTCN United Nations Climate Technology Centre & Network (CTCN)

Join us for a crucial discussion on the role of digital readiness in global climate

Key players such as the United Nations Climate Technology Centre & Network (CTCN) and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH support digitalization in developing countries. However, what measures need to be taken to ensure user-centric development and foster ownership, tailoring digital tools to the needs of developing countries for long-lasting climate

This UNFCCC Technology Mechanism event at #COP28 explores digital readiness strategies tailored to diverse contexts. Learn from case studies by CTCN, GIZ, and partners, emphasizing digital skills and enabling environments

More: https://shorturl.at/cnZ36

#DigitalReadiness #ClimateTech

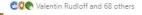
UN Environment Programme

UN Climate Change

Bjorn-Soren Gigler, PhD, Julia Fink, Jongseok Shin, Seth Ayers, Sara Ballan, Rajiv Garg, Erwin Rose, Moritz Weigel, Stig Svenningsen, Mukes Kapilashrami, Valentin

1:00 - 2:30pm

Learn more at: ctc-n.org



5 comments · 12 reposts

TEC-CTCN 2023-2027 Joint Work Programme implementation

Common area of work: Water-Energy-Food systems



Technical Assistance:

- 2 TAs completed (over the 2023 JAR period) on WEF nexus
 - e.g TA in Cameroon: Water- Energy-Livestock for the dairy value chain

Capacity Building & Networking:

 Thematic webinar on collaborative RD&D for WEF – Asia-Pacific & Africa regions, with FAO, STEPI & One World

Reflections pertinent to the TEC's work:

- TEC partnership with FAO can be leveraged by the CTCN to undertake match-making for scaling up.
- CTCN TA experience on WEF nexus can be used as case studies for TEC-FAO upcoming knowledge product
- CTCN will explore opportunities for integrating outcomes of this work to help develop TA request

Support to the implementation of an integrated project Water-Energy-Livestock for the dairy value chain in the municipalities of Pette and Wina - North Cameroon



Water-Energy-Food Nexus in Africa: A Path to Sustainable Development

 Objective:
 Sectors:
 Cross-sectoral enabler:

 Adaptation, Mitigation
 Agriculture, Energy efficiency, Water,
 Capacity building and training

| 3 min | Introduction on the program |
|--------|--|
| | Moderator (Suil Kang) |
| 4 min | Welcome remarks |
| | Rajiv Garg, Director(a.i.) of the CTCN, The Head of the CTCN PALO |
| 15 min | FAO's Water- Energy- Food Nexus Assessment |
| | Mr. Manas PURI, FAO |
| min | Q&A |
| 15 min | The implication of WEF Nexus approach in the Mekong region and the role of STI |
| | Dr. Hwanil PARK |
| | Science and Technology Policy Institute (STEPI), Korea |
| min | Q&A |
| 15 min | Water, energy and food security nexus – little heeded but much |
| | needed? |
| | Ms. Belynda PETRIE, CEO, One World, South Africa |
| y (k) | Q&A |
| l0 min | Panel Discussion, Speakers |
| min | Closing remark, CTCN |

Common area of work: Energy systems



Technical Assistance:

- 9 TAs completed (over the 2023 JAR period) related to energy systems
 - e.g Enhancing Vanuatu's market for energy efficiency appliances

Capacity Building & Networking:

- Regional Capacity Building Program on Green Hydrogen in Energy and Sustainable Mobility Sectors: Asia and Pacific
- Thematic webinar on collaborative RD&D for energy systems Africa Region, with IEA & NREL
- <u>Learning exchange event on technologies for decarbonizing electrical transmission and distribution grids through F-gas regulations and policies</u> co-hosted by the NDE of Germany, Siemens and Nuventura

Reflections pertinent to the TEC's work:

 The joint TEC and CTCN paper on Technology and NDCs, and background paper on technology roadmaps to be presented to NDEs for it's follow up Asia Pacific NDEs: regional capacity building on green hydrogen in energy and sustainable mobility sectors



2023 Capacity-Building Workshop Application Form



no longer accepting

Common area of work: Buildings and resilient infrastructure



Technical Assistance:

- 12 TA projects completed (over the 2023 JAR period) related to buildings and resilient infrastructure
 - e.g Policy guidelines on building codes for enhancing energy -Kyrgyz Republic

Capacity Building & Networking:

- Launch of publication on NBS & water management challenges in Asia-Pacific jointly with UNEP-DHI
- Thematic webinar on collaborative RD&D for NBS under buildings and resilient infrastructure – LAC, hosted in partnership with ICLEI Energy Exchanges

Reflections pertinent to the TEC's work:

- TEC work and partnership on Early Warning and Oceans would be useful for the further work of CTCN
- The work on Grand Challenge Programme on AI4Climate Action could provide opportunities for scaling up the TAs implemented by CTCN
- CTCN can provide inputs based on its extensive experience working on green building codes and energy efficiency in buildings for upcoming TEC event / thematic dialogue in 2024

Development of policy guidelines on building codes for enhancing energy efficiency and identification of viable technologies for public buildings in the Kyrgyz Republic



Fill | CTCN Webinar: August 28th Collaborative RD&D for Nature-based solutions

Common area of work: Business and Industry



Technical Assistance:

- 3 TA projects completed (over the 2023 JAR period) related to business and industry
 - e.g Climate resilience and economic sustainability of livestock farming - Mongolia

Capacity Building & Networking:

CTCN actively engaged entrepreneurs and encouraged collaboration between the public and private sector:

- Youth Climate Innovation Lab and Academy launched in MENA in 2022
- Collaborative RD&D twinning arrangements

Reflections pertinent to the TEC's work:

- TEC brief on Industrial Energy and Material Efficiency in Emission-Intensive Sectors
- CTCN work in the cement industry may be of interest for upcoming TEC work (TEC activity C.3.1)

Enhancing climate resilience and economic sustainability of livestock farming in a rural community of Mongolia



★ THE CLIMATE INNOVATION LABS & ACADEMY IN A NUTSHELL - MENA







Common area of work: Technology Needs Assessment



Technical Assistance:

- 10 TNA completed (over the 2023 JAR period)
 - Most funded through GCF Readiness
 - Paraguay conducted its first TNA
- Resulted in 18 preliminary concept notes based on TAP project ideas

Collaboration with partners:

- TNA guidance gap assessment
- GCF structured dialogues for Asia Pacific: presentations of TNA outcomes
- CTCN member of steering committee for Global TNA Phase 5 project

Reflections pertinent to the TEC's work:

- While the TNA process allows for project ideas to be identified and prioritized in some specific sectors, TNA outputs are not immediately scalable and require further in-depth analysis to become bankable.
- CTCN can provide inputs for upcoming TEC activity on analysis of success stories of implemented TAPs based on CTCN TNA portfolio (TEC activity B.1.1)

TNA Workshop in DRC





TNA Workshop in Paraguay







CTCN Secretariat
UN City, Marmorvej 51
DK-2100 Copenhagen, Denmark
www.ctc-n.org
ctcn@un.org



UNFCCC_CTCN



UNFCCC.CTCN

Supported by











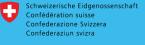














Federal Department of Economic Affairs, Education and Research EAER State Secretariat for Economic Affairs SECO





















