

CLIMATE TECHNOLOGY CENTRE & NETWORK



CTCN

Update on the achievement of the 2020 Annual Operating Plan

Rose Mwebaza, CTCN Director

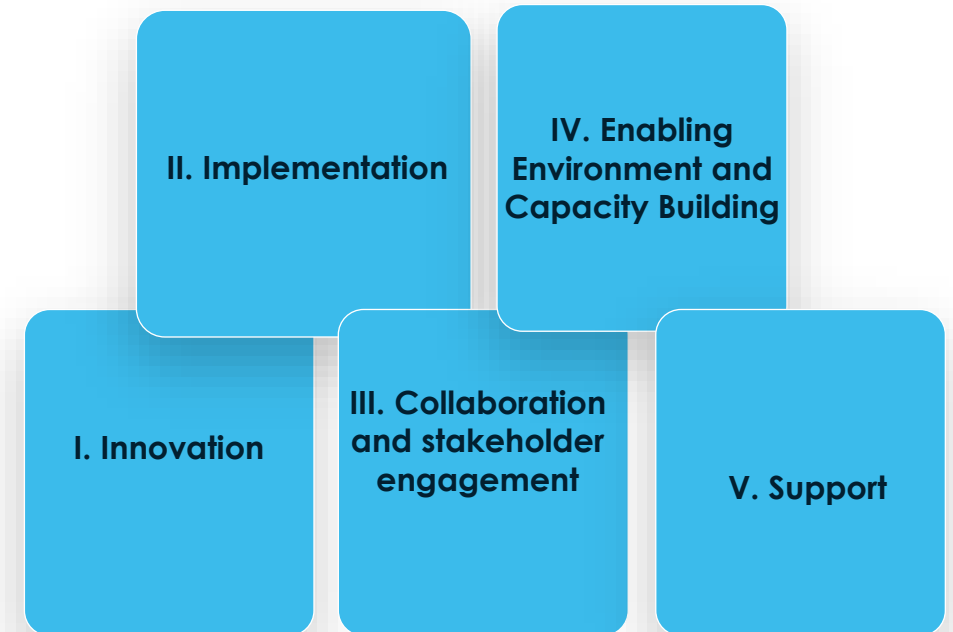
17th meeting of the Advisory Board to the CTCN

26 – 28 April 2021

CTCN Key Achievements in 2020

2nd year of operationalisation of the Technology Framework

- 2020 marked **the second year of operationalisation of the Technology Framework** of the Paris Agreement and the **first year of operationalization of the CTCN's updated M&E system** used to track, evaluate and report on activities, results and expected impacts of its services.
- The CTCN structured its reporting and Annual Operating Plan in alignment with the goals and **five thematic areas of the technology framework** under the Paris Agreement.



CTCN Key Achievements in 2020

overcoming a serious challenge..



- **The CTCN reconfigured its activities to adapt to the COVID-19 pandemic**, while continuing its efforts to assist countries in implementing their NDCs and scale up the implementation of climate actions.
 - Capacity building, knowledge sharing, and network engagement activities shifted to Virtual formats -> missed the personal touch and benefits of face-to-face discussion but also enabled reaching out to a larger audience.
 - TA implementation saw some delays, while also enabling alternative, innovative and effective approaches to keeping momentum (e.g data collection).
 - The pipeline of requests remained strong- building on strong country engagement and regional approach pre-COVID.
- Despite the pandemic, **the CTCN achieved 108% implementation of its approved 2020 AOP budget.**



I. Innovation

Leveraging funding through the Financial Mechanism to foster RD&D and Innovation: **Adaptation Fund Climate Innovation Accelerator (AFCIA)**

- **UNEP/CTCN** and **UNDP** selected to administrate the AFCIA (**USD 5 million each**)
- Provision of different services to support innovation in adaptation
 - **UNEP-CTCN programme = Technical assistance**
 - UNDP programme = Grant funding
- Objective is to **support developing countries to test, evaluate, roll out and scale up innovative adaptation practices**, products and technologies -> **25 technical assistance projects** (up to 250,000 USD each)

Virtual **joint launch** event – Nov 2020
over 700 participants

Virtual joint launch Adaptation Fund Climate Innovation Accelerator

➤➤➤ 18 November 2020

➤➤➤ 6:00 - 7:30 AM (CET) for Asia-Pacific & 3:00 - 4:30 PM (CET) for America, Europe and Africa (1.5 hour)

➤➤➤ Local governments, NGOs/CSOs, innovators and others will learn more about the \$10 million in grants available through the Climate Innovation Accelerator.

➤➤➤ Register:
afcia.eventbrite.com



I. Innovation

Leveraging funding through the Financial Mechanism to foster RD&D and Innovation: GEF Challenge Program for Adaptation

- CTCN selected as one of nine organisations
- Grant of 677,000 USD to provide **technical assistance to urban planners to identify financial tools and mechanisms for financing adaptation technologies and build relationships between municipalities, the private sector, financial markets and infrastructure funds** in the medium-sized cities of:
 - Nelson's Dockyard National Park in Antigua and Barbuda;
 - Chokwe in Mozambique; and
 - Kaysone Phomvihane City in Laos

Main Components	Related Activities
Municipal Financing toolkit for climate change Adaptation	<ul style="list-style-type: none">• The financing toolkit for medium-size cities is developed and disseminated. It includes tools to assess CCA technologies in urban planning and innovative financing• Municipal planners are trained in the municipal financing toolkit• High potential climate resilience financing solutions are mapped out and prioritized• Knowledge Products are developed and disseminated among NDEs
Piloting of the Toolkit Developed	<ul style="list-style-type: none">• Adaptation technology financing plans for 3 medium-sized cities are developed• Investment projects are prioritized based on their adaptation impact, attractiveness to private sector and their financing options• Adaptation technology financing plans are presented to selected members of the financial community• Regional workshops are organized to present the toolkits and city case studies to their respective region

I. Innovation

Women and youth driving climate innovation:

- **Upscaling Gender-Just Climate Solutions:** CTCN, the UNFCCC Women & Gender Constituency, & WECF conducted **online capacity-building sessions and** weekly/bi-weekly **mentoring** on women's green entrepreneurship, climate finance and guidance on COVID-19 actions. 70% of participants were able to **access funding to up-scale or replicate solutions**.
- **Youth Climate Innovation Labs:** Two three-day online events in **Africa and Asia Pacific** brought youth innovators (**737 applications**) together with **local SMEs** and innovation experts to utilize innovative design thinking tools and create solutions for enhanced climate action. 11 startups were selected to participate in the **Youth Innovation Academy to incubate their solutions** in 2021.

YOUTH CLIMATE INNOVATIONS LAB DEMO DAY

Meet the most promising startups creating technology solutions for enhanced climate action across Africa and Asia-Pacific.

Date: **22 APRIL, 2021**

Time: **11:30AM CET**



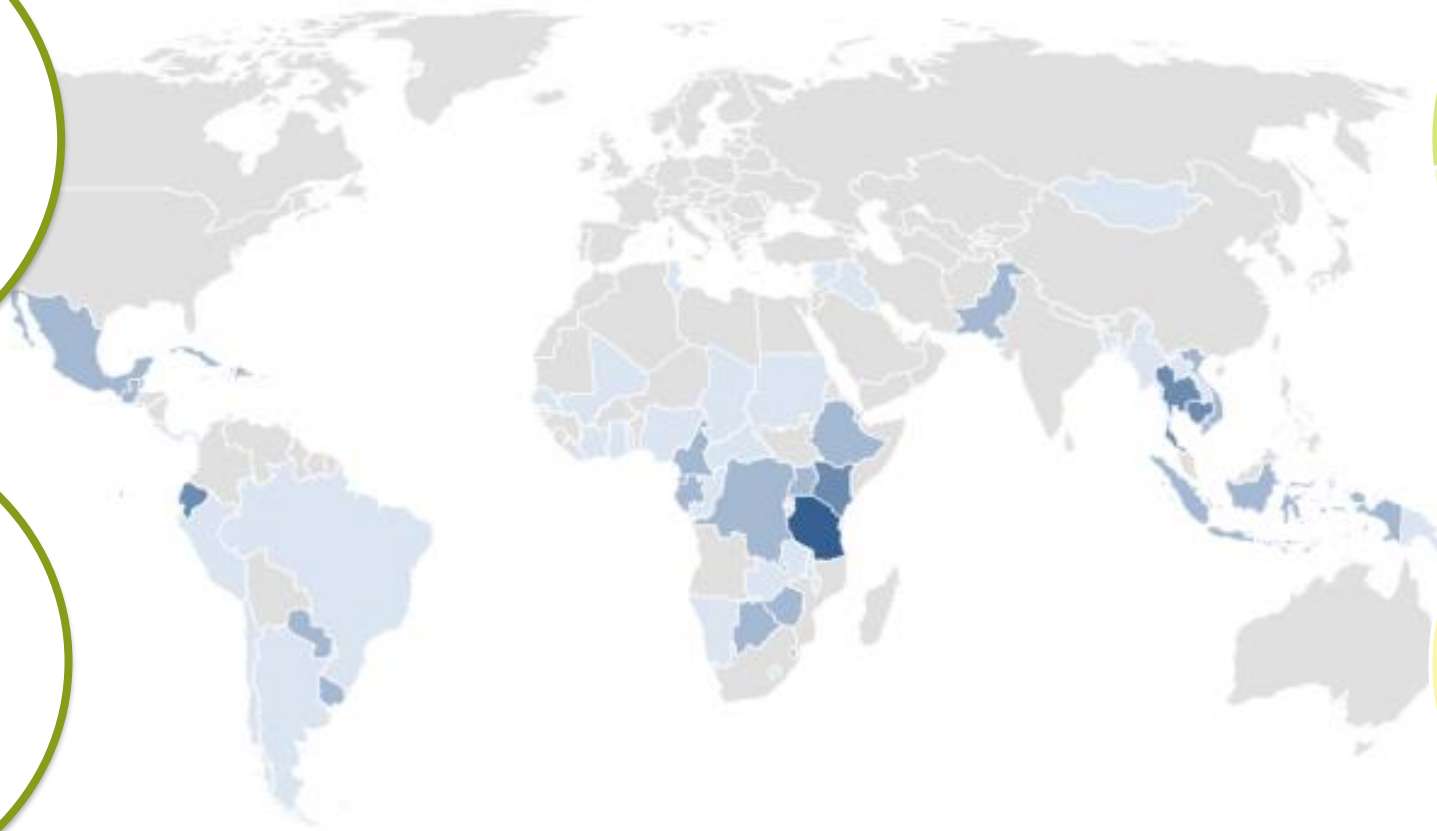
II. Implementation

75

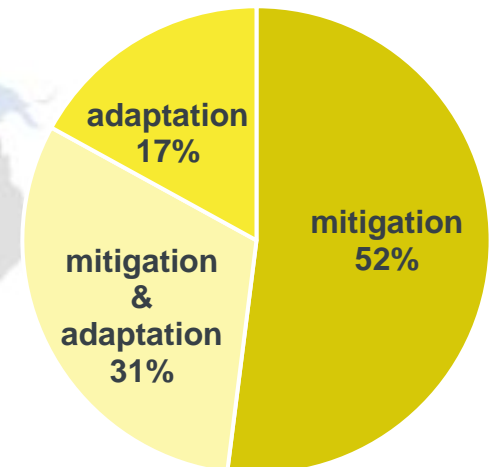
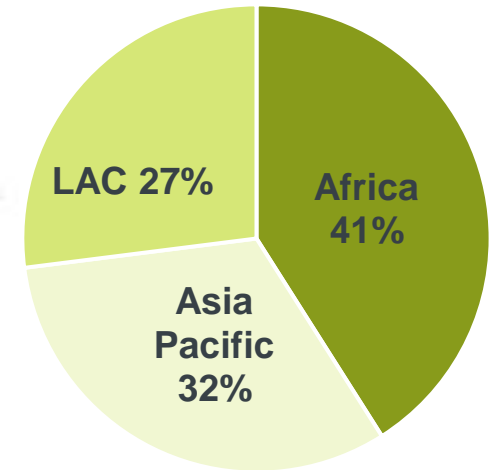
Countries
served through
TA
implementation
support in 2020

109

TA
implementations
supported in
2020, including
48 new TAs



Map showing countries having received TA support from the CTCN in 2020.
Countries may received support for more than 1 TA at a time.



II. Implementation

6
FTAs

11
Countries supported to undertake TNAs & TAPs

6
Multi-country TAs

\$240 million
funding leveraged from TAs worth 1.5 m

21
GCF readiness proposals under implementation or approved in 2020 - strong portfolio of CTCN TAs under GCF readiness facility

Regional Outlook – Asia Pacific

- Countries served: **Cambodia, Indonesia, Laos, Lebanon, Mongolia, Myanmar, Nauru, Pakistan, Sri-Lanka, Syria, Tonga**
- Number of new requests received: **15**
- The region received the most significant percentage of TA **requests responding to adaptation objectives (29%)** than other regions
- Requests on **low-emission transportation, energy efficiency, risks in coastal zones** are emerging trends in the region
- Share of Pro-Bono and GCF readiness supported TA increased
- TAs on new technologies: **Ocean Energy** in Nauru; **Power to Gas** in Laos; **Carbon Mineralization** in Viet Nam
- **5 GCF readiness**: Energy Efficiency in Building, Thailand; Capacity building on community-based Solar, Timor-Leste



Regional Outlook - Africa

- Countries served: **Botswana, Cameroon, Eswatini, Equ. Guinea, Congo, Ethiopia, Gabon, Ghana, Kenya, Lesotho, Malawi, Namibia, Nigeria, Sudan, Tanzania, Togo, Uganda, Zambia, & Zimbabwe**
- Number of new requests received: **21**
- Requests on **Circular economy, Energy Efficiency and conducting TNAs/TAPs** are noted as emerging trends in TAs:
 - Developing Circular Economy Roadmaps for abating GHG emissions from the Waste Sector in Africa (5 countries)
 - National framework for leapfrogging to Energy Efficient Appliances and Equipment (Refrigerators and Distribution Transformers) through regulatory and financing mechanism (8 countries)
- **14 GCF readiness** TAs implemented in 2020



Regional Outlook –Latin America and Caribbean

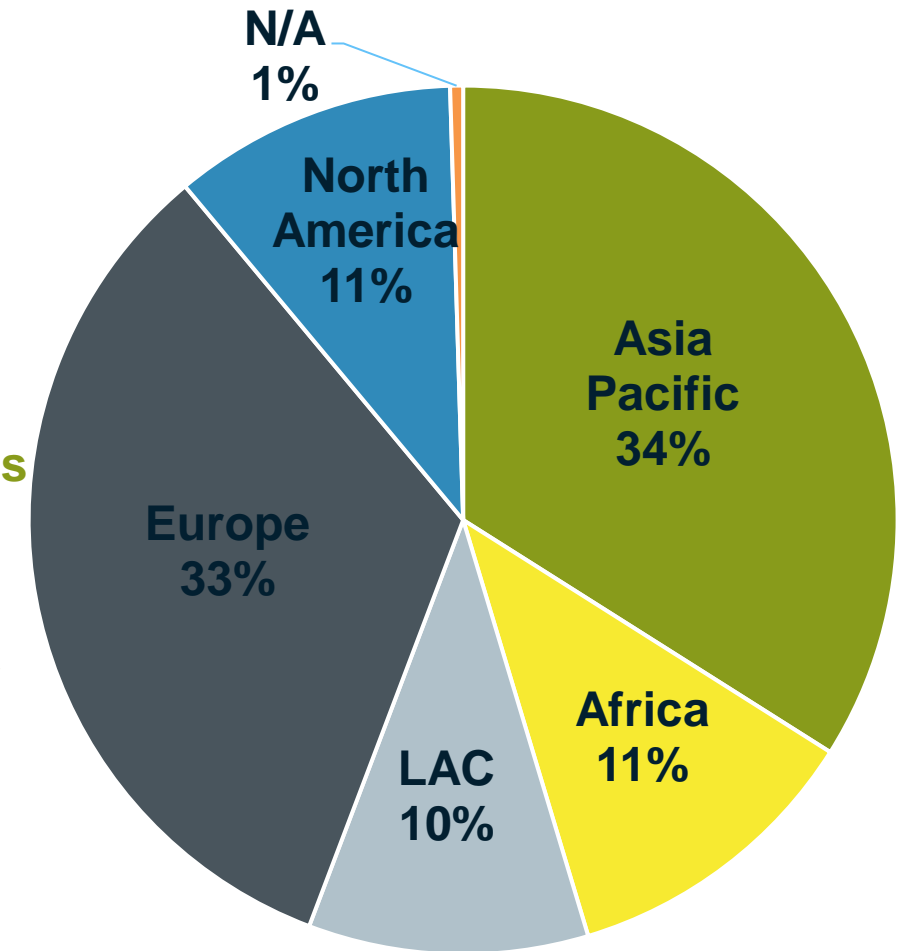
- Countries served: **Belize, Cuba, DR, Ecuador, El Salvador, Jamaica, Guatemala, Mexico, Paraguay**
- Number of new requests received: **12**
- Requests on **Circular Economy** and **Agroforestry policy** are noted as emerging trends in TA:
 - Assessment of the current status of the circular economy for developing a roadmap (9 countries)
 - Developing a circular economy at the local level in Costa Rica
 - Analysis and technical review of the existing legal framework for the implementation of a circular economy policy in Mexico
 - Development of an integrated and comprehensive agroforestry policy
- **4 TAs for CAEP applications** (NDC Partnership)



III. Collaboration and Stakeholder Engagement

Engagement with Network Members

- **101 new members joined in 2020** bringing the **total number of Network Members to 624**
- Almost half of the network members represent **private sector organisations**, followed by **research and academic institutions** (20%) and **NGOs** (11%).
- The largest sectors of expertise represented: **renewable energy (15%)**, energy efficiency (14%), water (9%).



III. Collaboration and Stakeholder Engagement

Strategies adopted to enhance Network engagement:

Following recommendations made by the AB task force on network engagement the CTCN implemented the following actions:

- A new 2 staged TA bidding platform was implemented: **75 % of new TAs were implemented by Network members in 2020.**
- Local bidders are encouraged -> 20% of the bid budget must be allocated to local implementing partners: **15 members from Africa and 2 from Thailand joined the network.**
- Feedback system to bidders on TA opportunities.
- Series of **webinars conducted for Network Members** : 3 online tailored briefings conducted for the network members from civil society, private and RD&D sectors

III. Collaboration and Stakeholder Engagement

Strategies adopted to enhance Network engagement:

- **CTCN and Network members jointly hosted webinars, capacity building, and events:**
 - Ocean Energy Technologies for Blue economies in Small Islands and Low-lying Developing States (SIDS)
 - Introduction on Ocean Accounting - managing our impacts on the ocean
 - Bioenergy and Carbon Capture and Storage: delivering negative emissions with bioenergy, biofuels and waste-to-energy
 - Earth Science Cafes - The Network of Africa Women Environmentalist (NAWE)
 - Gender-Just Climate Solutions – Women Engaged in a Common Future (WECF)

III. Collaboration and Stakeholder Engagement

- **Strengthening collaboration with the UNFCCC youth constituency, YOUNGO and Women and Gender Constituency:** aiming to provide an inclusive platform for engagement on climate technologies and strengthening capacities
- **Latin America and the Caribbean Regional Coalition on Circular Economy:** UNEP- CTCN in collaboration with UNIDO, EMF KAS-EKLA, WEF and PACE leading the formation of regional coalition on circular economy
- **Engagement with National Designated Entities: Virtual Regional NDE Forums** in June 2020 for Annex 1 and non-Annex 1 NDEs. A total of 205 participants attended seven virtual regional forums.



III. Collaboration and Stakeholder Engagement

Fostering opportunities for South-South collaboration

- Technical assistance was implemented by several **South Korean implementing partners**, as part of the **Republic of Korea's pro-bono support**, in Togo, Tanzania, Namibia, Cambodia, Vietnam, and Sri Lanka in areas such as solar energy, low-emission mobility and water recycling technologies.
- Technical assistance was provided by the **Indian-based Energy and Resources Institute (TERI) and Price Water House Coopers - India** in Pakistan and the Solomon Islands, respectively, on energy efficiency.
- **Knowledge sharing workshops** were organised as part of the support provided to several Latin American countries to develop roadmaps on the circular economy.
- The Gender-Just Climate Solutions programme facilitated knowledge sharing among participants from 13 countries through **joint training and experience sharing on challenges and solutions**.

IV. Enabling Environment and Capacity Building

Enhancing public awareness and facilitating information-sharing

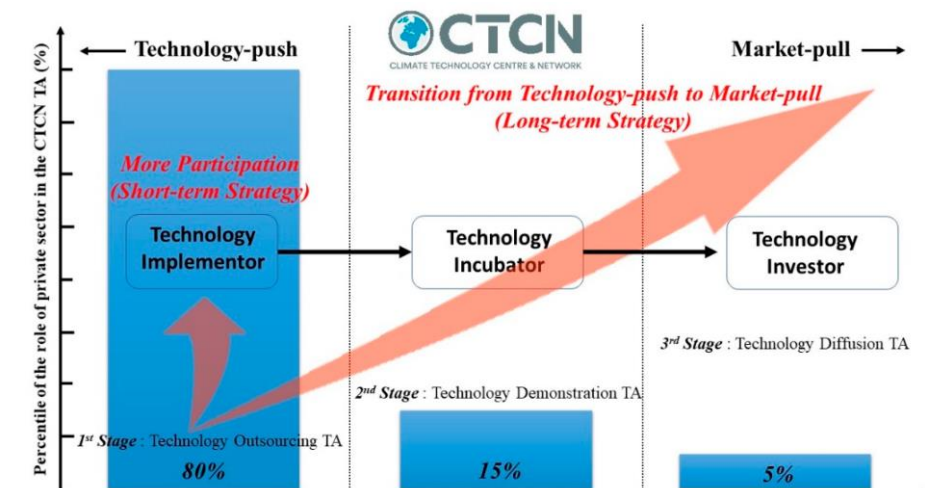
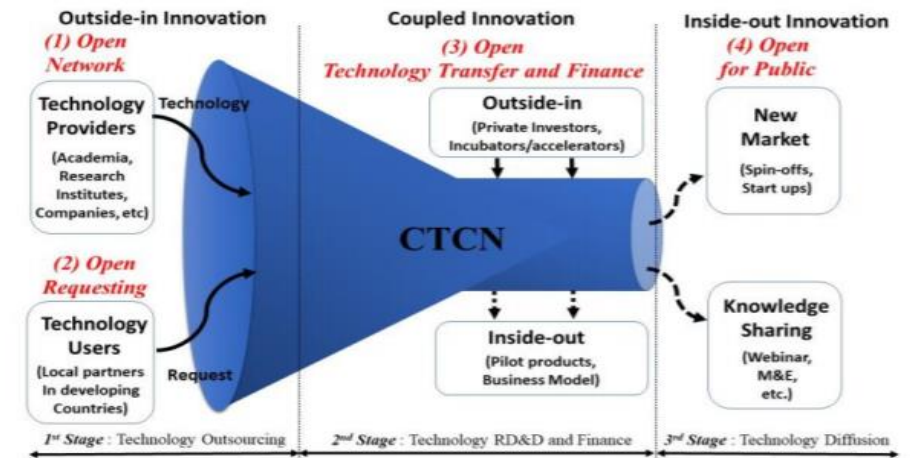
- CTCN activities were covered **752 times in global and national media**
- **38 million impressions were earned on social media**
- The CTCN website contains over **15,000 information resources**, including climate technology case studies and descriptions, national planning documents, publications, tools and webinars, in the six United Nations languages.
- Number of visitors to the website **increased by 61% in 2019–2020.**

IV. Enabling Environment and Capacity Building

Facilitating information-sharing: Publications

- **Role of CTCN as technology and innovation matchmaker**
 - Highlights CTCN-led technology and innovation matchmaking through its services
- **Public–Private Partnerships for Climate Technology Transfer and Innovation**
 - Identified various roles of the private sector as implementor, incubator, and investor in different stages of climate technology transfer

CTCN as a Technology and Innovation Matchmaker



IV. Enabling Environment and Capacity Building

Facilitating information-sharing: Publications

- **Ensuring a Climate Resilient Recovery Post COVID 19**
 - Practical, applicable guidebook that informs roadmaps and highlights best practice cases for developing countries to quickly get back on their feet, shift to sustainable patterns and 'build back better'.
 - Aids countries to develop country driven and robust technical assistance climate technology requests to enable them to build back better



Ensuring a Climate Resilient Recovery after COVID-19

A guide to utilising low-carbon pathways, supply chain circularity and resilient business models to meet climate change goals while improving economic competitiveness

IV. Enabling Environment and Capacity Building

Enhancing collaboration with the Financial Mechanism & Facilitating access to financing

- **Green Climate Fund (GCF): 21 GCF readiness proposals** worth just over 8 million USD were either under implementation or newly approved (2 LAC, 5 Asia Pacific, 14 Africa).
- **Global Environment Facility (GEF): 13 TAs completed** under the GEF funded project “Promoting Accelerated Transfer and Scaled-up Deployment of Mitigation Technologies” in December 2020, after five years of implementation.
- **Collaboration with the NDC Partnership** on 4 TAs and capacity-building module “Vision to Concept” to fast-track implementation of NDCs and enhance their ambition in the updated NDCs;
- **Pro-bono:** The CTCN mobilised **719,190 USD in pro bono support** from the Republic of Korea to implement eight technical assistance projects. In addition, the CTCN received support from a M&E expert as a result of pro bono support from the United States Agency for International Development (USAID).

V. Support

Implementation of the monitoring and evaluation framework and tracking of action

- **Transformational impact assessment of the CTCN's technical assistance:** study conducted by UNEP-DTU Partnership to provide an overview of how the CTCN's projects facilitate desired changes and recommendations on how it can further assess and achieve transformational impacts.
- **NDE Survey:** TEC-CTCN jointly conducted **outreach to NDEs** for feedback on the long-term impacts of their activities.
- The CTCN intends to **conduct a review of the M&E system in 2021** to assess the extent of its operationalization.



Climate Technology Centre & Network

Monitoring and Evaluation System

March 2020

Summary

This document presents the Monitoring and Evaluation (M&E) system of the Climate Technology Centre & Network (CTCN) completed in 2020. It includes the Theory of Change and the Performance Measurement Framework of the CTCN, both of which are in alignment with reporting on the implementation of the Technology Framework under Article 10, paragraph 4, of the Paris Agreement under the United Nations Framework Convention on Climate Change (UNFCCC). This document also includes the 6 data collection forms and templates to be used to gather data for the 45 qualitative and quantitative indicators contained in the CTCN Performance Measurement Framework.

V. Support

Joint Action with the Technology Executive Committee

- TEC and the CTCN jointly undertook a **review and update of their monitoring and evaluation systems**.
- Jointly organized **global and regional events**, including
 - Four regional Technical Experts Meetings on Mitigation (TEM-Ms) on the theme of “climate-smart cooling solutions for sustainable buildings”
 - UN Climate Change Dialogues “fostering innovation to help countries build climate resilience”
- Finalised plan on **joint activities to be implemented in 2021-2022**:
 - Technology and NDCs; Gender and Technology



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