

LCS-RNet 11th Annual Meeting Technology framework under the UNFCCC: the CTCN experience

Octber 17, 2019

Years









- CTCN and the Technology Framework (TF) of the COP
- 5-year CTCN progress report
- Example of impactful actions within the TF
- Conclusions







To promote the accelerated development and transfer of climate technologies at the request of developing countries for energyefficient, low-carbon and climate-resilient development





UNFCCC Technology Mechanism



CTCN service areas and core sectors



Agriculture **Energy Supply** Forestry Industry Transport Waste Management

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Agriculture & Forestry Coastal Zones Early Warning & Environmental Assesment Human Health Infrastructure, Transport & Urban Design Marine & Fisheries Water





SDGs and CTCN impact





countries

technology projects

million USD invested by CTCN

people trained

MAR .

million anticipated beneficiaries

ected ionnes 200 reduction per year

USD anticipated funding leveraged

CTCN geographical teams' distribution









East and Southern Africa & West and Central Asia



Latin America, Caribbean; West and Central Africa

Technical Assistance

Meeting technology demand

CTCN Technical Assistance: How it works





Interested parties contact their National Designated Entity to request climate technology assistance. NDE confirms the alignment of the request with its national climate priorities and passes it to CTCN.

CTCN collaborates with NDE and applicants to develop a tailored technology transfer plan. CTCN implements the technology solution with a selected Consortium or Network member.

(t \approx 12-18 months from request to completion)



CTCN TA routes



TA options:

- 1. Up to 50K\$ (through Consortium Partners)
- 2. > 50k\$: bid to Network (up to 250k\$)
- 3. Fast TA: up to 15k\$ (~2 months intervention)
- 4. GCF Readiness: >200k\$





Distribution of technical assistance requests by stage



Distribution of adaptation TAs requests by sector





Distribution of mitigation TAs requests by sector





Distribution of Network Members by Type of Institution





Countries with Network members

New Technology Framework after COP24



- 1. Independent review (2017)
- 2. Strengthening the Technology Mechanism (TEC-CTCN, GCF-RD&D, TNA)
- 3. Linkages with the Financial Mechanism
- 4. Terms of reference for the Periodic Assessment of the Technology Mechanism
- 5. Technology Framework of the Paris Agreement





The Paris Agreement called for the creation of a technology framework to guide the activities of the Technology Mechanism. The framework was decided along five principles and key themes at COP24; these themes guide the CTCN Programme of Work for 2019-2022 approved in late March 2019.

- The 5 themes of the technology framework:
 - 1. Innovation;
 - 2. Implementation;
 - 3. Enabling environment and Capacity building;
 - 4. Collaboration and Stakeholder Engagement; and
 - 5. Support
- CTCN Programme of Work aligns activities against each theme
- CTCN services are capable of producing impact in all TF themes



1. Innovation



- Establishing and/or strengthening national systems of innovation;
- Facilitating technology RD&D partnership and initiatives
 - TA in Brazil: "Internationalization of the Brazilian hydrogen energy research and development network" via the European Hydrogen Association (EHA)



- Promoting the engagement of private sector (PS) in the development of innovative climate technologies through:
 - raising awareness of future market opportunities;
 - Identifying ways to incentivise their participation.
 - PS match making workshops (Africa, Asia), SME clinics





- > Implementation of collaborative technology development and transfer
 - CTCN TA service modus operandi through network implementation
- Facilitating the undertaking and updating of Technology Needs Assessment (TNAs) and enhancing the implementation of their results
 - 8 TNAs proposals submitted to GCF Readiness in 2019 (Botswana, Cameroon, DRC, Equatorial Guinea, Gabon, Nigeria, South Sudan, Syria); 1 TNA for 2020: Congo





> Strengthen countries' capabilities to take effective climate action:

- Multi-country TAs (several examples currently running in LAC, Africa, Asia): i.e. coastal management, circular economy
- Creation and enhancement of an enabling environment, including policy and regulatory environments for technology development and transfer
 - TA in Uganda on geothermal energy policy



Multi-country TA: coastal classification, hazard management and standardized communication scheme with the Coastal Hazard Wheel

Challenge/Request:

- West Africa's and Cameroon's littorals impacted by the effects of climate change, coastal erosion and sea level rise in a context of growing coastal urban concentrations
- Need to establish a robust diagnosis of multiple coastal risks and to identify technological adaptation options
- Coastal Hazard Wheel (CHW) identified as the most relevant tool

CTCN Response:

- Comprehensive assessment and analysis of data available and of their integration into the CHW system;
- Training of experts from WACOM and other relevant researchers on the data management available in the CHW system;
- Recommendations for appropriate technological options to be implemented for the sustainable management of the main coastal risks.

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UGANDA TA: Formulating Geothermal Energy Policy, Legal and Regulatory Framework







Request:

- Huge estimated potential of untapped geothermal energy
- Geothermal market still at infancy
- Important legal and regulatory barriers for investors
- No geothermalspecific law

CTCN Response:

- Review of existing energy and mining legislation
- Development of draft geothermal law
- Formulation of recommendation for associated regulations

Expected result: Set up legal framework to enable development of geothermal industry





> Enhance engagement of stakeholders at the local, national and global level.

- CTCN regional fora in LAC, Africa, Asia Pacific within Climate weeks of UNFCCC
- Workshop to strengthen linkages between climate focal points under the UNFCCC (NDE-NDAs), March 2019 Equatorial Guinea.

The workshop was co-organized by the Climate Technology Centre and Network (CTCN) and the Central African Forest Commission (COMIFAC), with financial and technical support from the Japan International Cooperation Agency (JICA), the German International Cooperation Agency (GIZ)







- Identify and promote innovative finance and investment at different stages of the technology cycle;
 - TA featuring scale-up funding by other financial mechanisms at the end of the project cycle
- Enhancing the mobilization of various types of support, including pro bono and in-kind support.
 - Pro bono TAs: Japan and Korea most active countries



Bosnia and Herzegovina: Rehabilitation and Modernization of the district heating (DH) system in the City of Banja Luka



Challenge/Request:

- Significant air pollution & energy losses from individual heating
- Financial pressure on city and District Heating company

CTCN Response:

- Construction of new biomass boilers to reduce heavy fuel oil consumption and generate heat with sustainable biomass (cheaper, renewable and locally available)
- Rehabilitation and replacement of key components in the distribution network to cut heat and water losses and reduce electricity consumption; and
- Switching to consumption based metering and billing for improved quality of services and customer confidence.



Impact

15M\$ scale-up funding by EBRD



- > TA level: running, under design, to be planned TAs
 - Country level, climate technology level (adaptation/mitigation);
- Capacity Building Workshops/trainings: joint organisation of workshops in regions;
- > Sharing of experts for TA and trainings;
- > CTCN can contribute to strengthen bilateral programs between countries;
- Pro-bono TA;
- Innovation: match-making with local partners in developing countries (private sector)







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