Annual Operating Plan
Climate Technology Centre and Network

For the period: 1st January – 31st December 2018 (fifth year of operations)

This Annual Operating Plan was approved by the Advisory Board at its 10th meeting

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Introduction

Overview of the fourth year of operations

The landmark agreement reached in Paris in December 2015 committed countries to ambitious actions to cut greenhouse gas emissions and strengthen their resilience to the impacts associated with global climate change. The Climate Technology Centre and Network featured prominently in that text. In addition to emphasis on research and development, the creation of a Technology Framework, supported by a strengthened Technology Mechanism, and CTCN engagement in the Technical Expert Meetings (TEM) process with a focus on pre-2020 action, the Paris Agreement called for stronger linkages between the Technology Mechanism and the Financial Mechanism of the Convention. COP 22 reiterated the need for such linkages and requested the operating entities of these mechanisms to find ways to increase their coordination and coherence. Additionally, at COP 22, countries pledged over $23 million to support technology transfer in developing countries through the CTCN.

Through its technical assistance services, the CTCN is supporting countries to achieve their NDCs including by facilitating country access to GCF resources. In the first of such collaboration, the Governments of Ghana, Tonga, and Myanmar will receive technical assistance from the CTCN funded through GCF Readiness and Preparatory Support, thus marking an important new chapter in the history of the linkages between the Finance and Technology Mechanisms of the UNFCCC. Additional countries are preparing Readiness proposals to the GCF with the assistance of the CTCN.

The 2017 round of CTCN Regional Forums have been organised in parallel with the GCF Structured Dialogues to foster interaction between NDEs and NDAs and enhance cooperation and coherence at national level. The CTCN also developed a capacity building module to support countries to develop GCF concept notes and launched a series of workshops to mainstream technology in the national climate agenda and support NDC implementation. These workshops bring together national focal points[1] of the climate initiatives under the UNFCCC from selected countries to discuss countries priorities and strengthen synergies among focal points in support of coordinated action to scale up and deploy priority climate technologies at national level.

The CTCN continues to implement its Incubator Programme that now focuses on supporting Least Developed Countries in the development of technology roadmaps for NDC implementation. Furthermore, the role of the CTCN as provider of capacity building expertise was recognized by Parties that invited CTCN representatives to attend the first meeting of the Paris Committee on Capacity Building.

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[1] Climate Change Focal Point, CTCN NDE, Technology Needs Assessments (TNAs) Focal Point, Green Climate Fund (GCF) NDA, Global Environment Facility (GEF) Operational Focal Point, Nationally Appropriate Mitigation Actions (NAMAs) Focal Point, National Adaptation Plans (NAPs) Focal Point.

The CTCN Network enjoyed strong growth throughout the year, and welcomed its 300th member in June 2017. Network Members intensified their engagement in CTCN technical assistance processes, with an anticipated 50% of technical assistance being implemented by the Network in 2017. Network Members engaged in other CTCN activities, such as participating in regional forums together with NDEs, conducting capacity building via sector-specific webinars available to the public, and sharing knowledge by sharing publications, technologies, and case studies via www.ctc-n.org.

The CTCN also continued to facilitate access to technology information through its Knowledge Management System (KMS). The KMS includes information and analysis on all CTCN technical assistance interventions, as well as relevant technology-specific information such as, publications, case studies, sample products and Network members with relevant experience.

2017 was also the year of the independent review of the effective implementation of the CTCN performed by the UNFCCC Secretariat on behalf of the COP, whose objectives may include recommended actions to enhance the performance of the CTCN. The CTCN looks forward to working with Parties to operationalize any recommendations that will strengthen its ability to serve the climate technology needs of developing countries.

Overall approach for the fifth year of operations

This Annual Operating Plan outlines a series of activities to be conducted during the fifth year of operations of the CTCN, from 1st January to 31st December 2018. As with previous Annual Operating Plans, it draws from the overarching 5-year Draft Programme of Work approved by the CTCN Advisory Board at its second meeting on 9-11 September 2013. The activities presented here have been defined based on experience and lessons learnt from the first four years of operations and draw from needs and priorities expressed by developing countries, as well as from guidance received by the COP and the CTCN Advisory Board and its task forces.

In 2018, the CTCN will continue to align its services with the implementation of country NDCs and NAPs through its technical assistance, capacity building, knowledge-sharing, and networking services.

CTCN will continue build its technical assistance adaptation and mitigation portfolios, paying particular attention to underserved countries and regions through the prioritisation of their requests. The CTCN will continue to support proponents and NDEs in refining and strengthening requests, with a renewed emphasis on linkages with the GCF Readiness and Preparatory Support (Readiness) programme and Project Preparation Facility (PPF) as well as through targeted outreach to climate technology-focused multilateral development institutions.

The CTCN will work to foster regionally coordinated transformational solutions for low emissions and resilient technologies that will lead to concrete positive impact in implementing Nationally Determined Contributions and NAPs.

The expansion of its global network will remain a priority for the CTCN, as will fostering a greater sense of community via their engagement at events on the margins of negotiations and through invitations to regional meetings. The CTCN will raise its profile outside of the UNFCCC process by seeking out complementary partnerships, expanding awareness of its services and the role of its country focal points through, for example, engaging trade representatives from Annex I Parties. The CTCN will also promote South-South cooperation by targeting private actors in developing countries, including Small and Medium-sized Enterprises (SMEs) and technology-focused entrepreneurs that are more familiar with conditions on the ground and better positioned to maximise the impact of CTCN interventions.

The CTCN will further develop and expand its communications and knowledge management activities, including by leveraging existing UN channels, to broaden awareness of CTCN services and to provide access to an increasing level of contextualized and relevant information on climate technologies and capacity building opportunities.

Increased attention will be placed on gender considerations, beginning with the implementation of the CTCN gender mainstreaming strategy that will provide more consistent and comprehensive support to its service offerings. The CTCN will undertake continued outreach to organizations with proven gender and climate technology expertise in order to strengthen the gender capacity of its NDE and implementing partners.

The CTCN will pursue its efforts to support NDEs and other climate technology stakeholders in developing countries through the Request Incubator Programme, in-person regional meetings, and support NDEs and other key stakeholders in designing collaborative programmes to bridge the gap between the objectives of the NDCs and their concrete implementation (capacity building module to develop GCF concept notes, focal points workshops, etc.). The CTCN will consider the outcomes of COP23 related to capacity building as well as the recommendations of the Paris Committee on Capacity Building while designing capacity building activities.

The CTCN secondment programme will strengthen capacities of staff from partner institutions and Network members working on climate technologies and enhance their understanding of CTCN operations. At the same time, the CTCN will learn from these representatives' experiences, including identifying local technology needs, cultural, socio-economic and political influences on technological development, and how to effectively support climate technology development in specific regions.

The CTCN will this year begin the implementation of its M&E system. These efforts will enhance the ability of the CTCN to report on its overall performance to donors, the Advisory Board and the COP, as

well as monitor operational performance and better capture outputs from the full suite of its operations. The CTCN has already implemented half of the key action items from its internal stock-taking exercise, is deepening its engagement with its Advisory Board task forces, and will incorporate recommendations from the independent review that will be presented at COP23.

The financial situation of the CTCN continues to be worrisome, despite a renewed round of donor pledges at COP22, and its 2018 operational budget will be the lowest since it became operational (USD 9.1M). The CTCN, and its host agencies UN Environment and UNIDO, continue to engage with existing and potential donors to increase the availability of resources to serve more developing country requests. It is expected that an increased focus on leveraging of pro bono resources and cooperation with the GCF will contribute to the bottom line, but it is difficult to estimate the degree of success these activities will have at this time.

Acronyms

CTC	Climate Technology Centre
CTCN	Climate Technology Centre and Network
CTN	Climate Technology Network
KMS	Knowledge Management System
LDC	Least Developed Countries
M&E	Monitoring & Evaluation
NAMA	Nationally Appropriate Mitigation Action
NAPA	National Adaptation Programmes of Action
NAPs	National Adaptation Plans
NDCs	Nationally Determined Contributions
NDE	National Designated Entity
NGO	Non-governmental Organisation
TEC	Technology Executive Committee (of the UNFCCC)
TNA	Technology Needs Assessment
UN Environment	United Nations Environment Programme
UNIDO	United Nations Industrial Development Organisation
UNFCCC	United Nations Framework Convention on Climate Change

1. Annual activities and plan

1.1 Technical assistance in response to country requests

Subject to the availability of financial resources, the CTCN will continue to respond in a timely and appropriate manner to the increasing number of requests from developing country NDEs. It will provide developing countries with high quality technical assistance to facilitate the transfer and dissemination of technologies for enhancing low emissions and climate resilient development in line with their national circumstances and priorities as articulated in their NDCs and other supporting documents.

Consistent with COP decisions and guidance of the Advisory Board to be demand driven and user-friendly, the CTCN will continue to provide technical assistance, upon request, in the comprehensive breadth of the climate technologies' taxonomy and of the technology innovation cycle. These climate technologies and the innovation cycle span the continuum between 'hard' and 'soft' technologies, and involve traditional, modern and high-tech solutions. The CTCN will also continue to organise and categorise its technical assistance so to more effectively share knowledge, build capacity, communicate and evaluate across the full breadth of climate technology solutions.

The CTCN will make strategic and operational adjustments based on the experience and lessons learnt from its first years of operation to scale up activities and improve responsiveness in reacting to technical assistance requests. The past efforts produced towards securing a robust pipeline of requests have led to a significant volume for both adaptation and mitigation portfolios. CTCN will persist in this support along these lines paying particular attention to countries and regions currently underserved as well as assisting proponents and NDEs in refining and submitting requests.

The increased number of incoming and accumulated requests poses new challenges on a number of core aspects of the TA processing mechanism, namely eligibility and prioritisation vis-à-vis available financial resources; balanced geographical distribution of interventions; timeliness, appropriateness and effectiveness of the response to countries. In order to face these challenges, CTCN approach will be focalized to the maximization of TA impact through the identification of clearly defined and measurable indicators that will drive the execution of the work since the inception phase throughout all the duration of the intervention.

Increased attention will be assigned to linkages with GCF Readiness Support Programme and Project Preparation Facility (PPF) by creating opportunities for NDEs to interact with GCF focal points (National Designated Authorities, NDAs) to identify opportunities to scale up CTCN TA using GCF financing to increase their impact. At the same time, the CTCN will highlight the benefit of CTCN technical expertise to strengthen the GCF pipeline and help it to deliver on its objectivesPartnerships with other financial institutions such as the GEF and multilateral development banks (MDBs) will be explored also according to the specific mandate from the COP to strengthen the linkages between the technology and financial mechanisms.

Finally, CTCN will continue to proactively encourage a balance of requests between adaptation and mitigation, in a diversity of sectors and to work to ensure that its technical assistance activities are aligned with Nationally

Determined Contributions, other UNFCCC mechanisms (TNAs, NAMAs, NAPAs, NAPs, Adaptation Fund, GEF and GCF, etc.), and other international programmes. This includes coordinating with relevant in-country activities and programmes (including those implemented by UN Environment and UNIDO, Consortium partners, Network members and other stakeholders) to ensure that it implements value-adding interventions in requesting countries as well as a cooperative approach with the GCF and other relevant financial entities.

CTCN actions:

1.1.1 Help developing countries in the implementation of their NDCs and NAPs by removing technology barriers and creating enabling environments for effective deployment of technologies that spans sectors, cross-cutting issues, and stages of the technology innovation cycle:

(i)   Prioritise climate technology solutions by providing expert opinions and introductions to existing and emerging climate technology solutions within a specific sector.

(ii) Reinforce appropriate monitoring and evaluation systems that will make sure that the impact-driven approach is achieved, with gender considered in impact analyses, and that the results and lesson learned resulting from the increased number of concluded technical assistances will be embedded while treating new requests since the very beginning.

(iii) Increased involvement of Network members in the implementation of the larger TA requests, following also the indications received by both the AB and the COP in Marrakesh. In parallel the CTCN will be streamlining the role of the consortium partners mainly to smaller TA requests. Moreover new strategic tasks to be assigned to them in order to enhance impacts will be investigated.

(iv) Widen the overall delivery capabilities for technical assistance needs especially through timely responses to smaller sized requests (<50k USD) via the "ask an expert" function. The introduction of such a procedure can lead to enhanced CTCN capabilities for processing requests via:

- increasing the number of TA requests implemented through the establishing of a fast response;
- increasing overall impact through fostering high quality TA by means of a two-step interaction with NDEs and countries climate technology needs that can inform and foster subsequently larger sized or regional requests for TA.

(v)   Scale-up the deployment of priority climate technology solutions and incorporate them into planning and financing with the public and private sector also through encouraging regional requests

(vi) Incorporate actions to identify the most promising TA requests carrying the highest potential to engage with the private sector into the portfolio management strategy. Relevance will be assigned to the translation of the requests into a more coherent business language through, for example, the use of a business canvas approach.

1.1.2   Support the transition from technical assistance to effective technology implementation and/or deployment by establishing partnerships between national technology stakeholders, donors/investors, and other key technology actors. Deliver technical assistance upon request to support developing countries to secure financing for climate technology development, demonstration and diffusion and commercial maturity beyond the CTCN intervention. The CTCN intends to do so by collaborating with GCF Secretariat, National Designated Authorities, Focal Points, and with MDBs in supporting developing countries to move visions to concept to full-fledged project proposals.

1.2   Networking and stakeholder engagement

The CTCN will continue building and strengthening its Network to enable countries to access the best available expertise in response to their requests, and to enrich the KMS with additional expert information, knowledge and tools. This includes expanding the Network to ensure appropriate representation from different organization types, regions and sub-regions, and within each region to ensure mitigation and adaptation balance as well as broad sector representation among the Network. In areas where the technology landscape includes diverse and opposing approaches, the CTCN aims to have this diversity reflected in the Network so as to be able to offer countries a range of knowledgeable technical advice.

The CTCN will work towards increasing collaboration with business and industry, public institutions, academia, NGOs, and research institutions to facilitate public-private technology transfer partnerships and twinning arrangements through targeted workshops and matchmaking events. Potential areas for such technology partnerships will be identified through analysis of NDCs, NAPs, TNAs, best practices with strong replication potential, and regional and/or sectoral trends emerging from the request-response process. CTCN will ensure geographic as well as an adaptation and mitigation balance, and will consider the potential for private sector involvement.

We will promote North–South, South–South and triangular partnerships, including for cooperative research and development, to facilitate subsequent implementation of projects and investments in technology transfer. Finally, the CTCN will identify potential gaps in terms of expertise available in its Network through a quarterly review and will be conducting targeted outreach to address these gaps, including through communications to similar networks.

CTCN actions:

1.2.1   Promote the development of a competent and active Network that covers a wide range of expertise and approaches by directly reaching out to qualifying institutions notably through its Consortium and other partners, including Advisory Board Members, with a specific focus on encouraging Network membership from developing countries to enhance South-South collaboration.

1.2.2   Engage Network members in CTCN technical assistance, capacity building, and knowledge management activities, including:

(i)   Manage tendering processes for TA implementation from Network members;

(ii)   Support Network members in providing in-kind / pro bono support for Technical Assistance requests on a co-financing basis. The CTCN requires diverse and predictable sources of financing to provide climate technology support to developing countries, and to scale up its operations to meet demand. The concept of in-kind / pro bono co-financing was agreed by parties through a COP decision. The CTCN will develop and present at the 11th meeting of the Advisory Board, robust protocols for accepting co-financing from Network members through the following routes:

        a.   A Network member may assume responsibility for the design of the response and implementation of the TA request

        b.   A Network member may 'co-finance' the design of a response to the TA request by lending its expertise, or supporting the efforts of the CTC to design a response. The request is then returned to the CTC for tendering via competitive process.

        c.   The CTCN develops a response plan, but lacks the financial resources for its implementation and therefore a Network member can approach the CTC and assume responsibility for implementation.

        d.   CTCN tenders a response plan for bidding and a Network member provides co-financing contribution as a component of the tender

(iii)   Engage Network institutions in capacity building activities including webinars, thematically focused training sessions (also on-line), and participation in regional Forums with a view to facilitate interaction between NDEs and Consortium Partners; and

(iv)   Seek information and knowledge products from Network members on relevant climate technologies to be disseminated through the CTCN KMS.

1.2.3   Create synergies and foster operational relationships with major multilateral donors in the field of climate change technologies, including multilateral and bilateral development banks, the Green Climate Fund, the Global Environment Facility and the Adaptation Fund to identify projects and requests with the highest potential of success, facilitate matchmaking opportunities between country stakeholders and multilateral donors, and encourage the funding of follow-up actions based on requests submitted to the CTCN.

1.2.4   Co-organize thematic events with Network members at regional and sub-regional level for NDEs and other in-country stakeholders including Government representatives from institutions other than the NDE, providers of climate technologies, businesses, development banks, etc. Such thematic events might have a sectoral focus or a cross-sectoral focus (low cost technologies, traditional and endogenous technologies, ecosystem-based technologies, etc.).

1.2.5   Implement the private sector engagement strategy which is based on three major pillars: analysis and learning; enhancing Network membership, mobilization, and presence; and the creation of an opportunity space to leverage the learning into a long-term private sector engagement mechanism. The CTCN will create a Business Model Canvas to evaluate the different options for the private sector to engage in addressing the challenges stated in the Technical Assistance request received by the CTCN. This will lead

to enhanced abilities of NDEs and countries to draw upon the private sector to support requests as well as in designing future requests that better improve the possibility for co-financing of the private sector. The CTCN will also facilitate interaction between NDEs and businesses operating within their country and region and draw upon the experiences and lessons learned from Network members such as PFAN and their activities.

1.2.6   The CTCN will also develop a demonstration model of an opportunity analytic tool for the three selected sub regions. The tool would facilitate identification of technologies which would have the potential for deployment in the respective sub-regions. This tool would also help NDEs to compare prominently deployed technologies in their region using multiple parameters. The data to be used for the tool would be derived and linked to the various existing databases which are globally available.

1.2.7   The CTCN will develop and implement private sector innovation programmes. These will focus on identification of challenges and specific solutions for SMEs and could include, inter alia and subject to availability of budget, the following activities: SME Technology clinics, CTCN Stakeholder Forums organised on a sub-regional basis, technology adaptation incubator/accelerator for developing countries' SMEs, and creation of a "climate technology innovation / localization award" for research institutions, and IPR helpdesk in cooperation with WIPO.

1.2.8   Pursue efforts to engage with Universities, Research Institutions, and Civil Society organizations to:
(i)   Promote two-way exchange of knowledge on the work of the CTCN and of research institutions, to increase awareness and opportunities related to research on climate technologies.
(ii)   Stimulate R&D collaboration, partnerships or twinning arrangements between the CTCN and universities/research institutions, among research institutions, and between governments and research institutions, as appropriate.
(iii)   Facilitate participation of research institutions in the Network to provide direct input in support of technical assistance requests.

1.3 Knowledge management, communication and outreach

The CTCN's knowledge sharing and communication to a broad range of stakeholders is a cross-cutting priority. The CTCN will further develop its communications and knowledge management activities in order to reinforce awareness of CTCN services and to provide access to contextualized and relevant information on climate technologies and capacity building opportunities. Further efforts will also be placed on awareness raising of the CTCN site's resources in order to increase dissemination of information on CTCN services and climate technology solutions. Activities to identify and highlight the important role of gender in climate technologies, as well as consideration of endogenous technologies will be continued as well. CTCN-produced materials will focus on technical assistance impacts and lessons learned, along with highlighting solutions which have potential for replication.

CTCN actions:

1.3.1 Continue to develop technology information pages with a more tailored focus that aligns with the specific technologies emphasized in technical assistance requests to the CTCN, and develop linkages between various sectors of the Knowledge Management System (KMS) such as Technical Assistance pages, Countries pages and Technology Sectors pages.

1.3.2 Based upon user testing results, the site's architecture will be refined to make the site as intuitive and user friendly as possible.

1.3.3 Maintain and develop knowledge partnerships with Consortium partners and Network members, NDEs, and other key climate knowledge institutions in order to cultivate and curate relevant climate technology information for CTCN users.

1.3.4 Implement the internal and external communication strategy in order to promote CTCN services more broadly, and transparently convey information on the delivery of CTCN services, including the continued:

   (i) Use of social media and website communications, and engagement with global media
   (ii) Distribution of regularly scheduled e-newsletters; publication of an annual CTCN Progress Report; and production of short, written briefs on CTCN technology transfer activities, outcomes and themes
   (iii) Production of videos demonstrating CTCN technical assistance and outcomes
   (iv) Communications coordination with UNFCCC, UNIDO, UN Environment, Green Climate Fund, and other key partners
   (v) Organization of UNFCCC Technology Mechanism booth, side events, and bilateral meetings during the Conference of Parties
   (vi) Regularly provide National Designated Entities (NDEs) with information resources in English, French and Spanish, as well as other languages depending upon demand and resources
   (vii) Development of social media content to highlight climate technology solutions of the CTCN

1.3.5 Promote a more consistent and thorough consideration of gender in the delivery of CTCN services including but not limited to:
   (i) Providing general and sector-specific gender guidance for technical assistance that recognizes the different gender situations in countries
   (ii) Continuing to conduct outreach to potential Network members with demonstrated gender expertise as well as the UNFCCC Women and Gender Constituency
   (iii) Enhancing the "Gender and Technology" section of the CTCN web portal to provide relevant and practical information.

1.3.6 Provide continued internal KMS intranet functionality to support CTCN operations, including administrative functions

1.3.7 Provide continued support for transparency in monitoring and evaluation by maintaining real time visualization of CTCN metrics on the public-facing and internal operations sites.

1.3.8 Conduct additional awareness raising about the CTCN's web portal, www.ctc-n.org, for the purpose of enhancing access to information on CTCN activities, through communications efforts, optimization of selected pages, and keywords leading to high rankings on various search engines.

1.4 Capacity building

The CTCN will continue to enhance human and institutional capacity on climate technologies for adaptation and mitigation through the Request Incubator Programme, in-person regional training sessions, and support NDEs and other key stakeholders in designing collaborative programmes to bridge the gap between NDCs and concrete actions on the ground, with a strong focus on support to access financing for climate technology projects. The CTCN will take into account the outcomes of COP23 related to capacity building as well as the recommendations of the Paris Committee on Capacity Building while designing capacity building activities.

CTCN actions:

1.4.1 Continue the implementation of the 'Incubator Programme for Least Developed Countries' in current and potential participating countries. The revised Incubator Programme focuses on developing technology roadmaps for NDCs, NAPs, and TNA implementation and the CTCN will seek to partner more actively with constituted bodies such as the LDC Expert Group (LEG) and includes the following:

(i) Mapping of capacity building and technology needs at the institutional level for NDC implementation and identification of focus areas for mitigation and adaptation.
(ii) Prioritisation of adaptation and mitigation focus areas through national multi-stakeholder consultations.
(iii) Definition of technology interventions for NDC implementation under each selected focus area, linked to existing and planned adaptation and mitigation activities, including NAMAs, NAPAs, NAPs, LEDS, and other internationally supported or domestic initiatives at the sector and sub-sector level.
(iv) A technology roadmap for the implementation and scaling up of the identified technologies will be developed and support to NDEs to mobilise public and private investments for NDC implementation will be provided through the development of concrete funding proposals.

1.4.2 Continue building the capacity of NDEs to enable them to effectively perform their role, including through a dedicated training session during the next round of CTCN Forums.

1.4.3 Organise Regional and Sub-regional Forums to help NDEs identify and access funding for follow-up actions to CTCN requests and other climate technology activities. The focus and content of these Forums will be further developed based on NDC analysis, Technology Experts Meetings (TEMs), technical

assistance requests, and feedback from the Regional Forums. The CTCN will identify thematic areas of relevance to the countries and develop specific modules to build capacities at different levels (local, regional and national). Particular attention will be paid to the development of capacities related to endogenous technologies and localization of technologies, gender mainstreaming and to access to financing for climate technology projects.

1.4.4   Replicate the workshop on 'Mainstreaming Technology in Climate Action Plans' in other sub-regions. The key objective of this workshop is to bring together the national focal points of climate initiatives such as the Climate Technology Centre and Network (CTCN), Green Climate Fund, and Global Environment Facility (GEF) as well as officials responsible for country Technology Needs Assessments (TNAs), Nationally Appropriate Mitigation Actions (NAMAs), and National Action Plans (NAPs) to discuss country priorities and strengthen synergies to accelerate technology transfer.

1.4.5   Continue implementation of the capacity building module to develop GCF concept notes. The objective of the module is to enhance the skills of project proponents, technical employees of line Ministries, institutions, and entities in preparing concept notes for submission to the GCF, based on the project visions identified as priorities in the country's climate change mechanisms (NDCs, NAPs, TNAs, Green Climate Fund country programme, etc.) and selected by the country's National Designated Authority (NDA) to the GCF. The module is being piloted in 4 countries (Guyana, Tanzania, Pakistan, Zimbabwe) with CTCN's own resources. The GCF is envisaging funding the module in additional countries once the pilot is over.

1.4.6   Continue the delivery of webinars developed by Consortium Partners, Network members and other key partners. The CTCN will also explore the possibility of developing training tools including videos, essential readings, and pedagogic quizzes and exercises designed in collaboration with partner educational institutions.

1.4.7   Pursue the implementation of the CTCN secondment programme to facilitate the cross-fertilization between the Climate Technology Centre (CTC) and its Network, as well as the wider CTCN community (Consortium Partners, funds, donor organizations, etc.). Through temporary assignment to the CTC in Copenhagen, Denmark, the secondees will be able to establish a mutually beneficial process of peer-learning and sharing of best practice, ideas and experience.

1.4.8   CTCN will continue to share its experiences on capacity building activities to the UNFCCC Secretariat. It will participate and make submissions to the PCCB as and when request by the Secretariat.

1.5 Monitoring and Evaluation (M&E)

The need for the Climate Technology Centre & Network's (CTCN) Monitoring and Evaluation (M&E) framework is ingrained in monitoring, assessment, evaluation and reporting requirements established by the COP. These requirements set out a need to design, develop, and establish an impact-focused M&E framework (and associated

processes) that not only monitors, assesses, and evaluates the CTCN's responses to requests for technical assistance but also monitors, assesses, and evaluates the CTCN's other service areas including stakeholder collaboration, knowledge-based activities, and the overall operational performance of the CTCN itself.

With the CTCN's M&E framework for non-technical assistance service areas expected to be endorsed by the Advisory Board in the latter part of 2017 and the M&E framework for technical assistance endorsed by the Advisory Board in 2015, the CTCN will this year move into an M&E implementation phase. The information collected through the M&E framework will be used (i) to provide clear, efficient, and timely reporting to the COP/Parties, CTCN Advisory Board, UN Environment, UNIDO, CTCN Donors, and other interested entities such as civil society organizations; (ii) to monitor the operational performance of the CTCN, contribute to CTCN evaluation processes, and demonstrate the degree of effectiveness of the CTCN in delivering on its objectives and mandate; and (iii) to gradually strengthen knowledge on climate technologies and establish a learning process that will feed into the CTCN KMS.

CTCN actions:

1.5.1   Implement the M&E framework that defines the various elements of the CTCN that need to be monitored, in line with the reporting requirements established under the COP and the Advisory Board. The framework will complement (and improve on) the guidelines for the Response Planning Team (RPT) that will develop the plan for technical assistance to be provided, so that M&E aspects continue to be an integral part of each response plan.

1.5.2   Related to the action described in Section 1.3.6, a KMS-based assessment and evaluation framework will be further developed and implemented to capture in narrative form and via other qualitative methodologies how the CTCN's services, in particular its technical assistance responses, have been conducted.

1.5.3   Develop a set of tools for M&E based on the indicators to be monitored and the processes and elements identified in the M&E framework, and perform at least an annual evaluation/review of its operational processes and activities, including on Consortium Partner and Network member performance.

1.6   Resource mobilisation:

CTCN resource mobilisation activities in support of its continued operation and the full range of its activities will continue in line with the strategies discussed at the 7th meeting of the Advisory Board, and guided by the Advisory Board also through its Task Forces on Finance and Operations. Following guidance received from Parties at COP22, the CTCN is engaging with the Green Climate Fund to identify practical ways to enhance collaboration and coherence, as well as with Network members and NDEs for the provision of pro bono and in-kind support to Technical Assistance received by developing countries.

Specifically, CTCN actions will include the following:

1.6.1   Enhanced engagement with existing and potential donors, demonstrating the value proposition of the CTCN via alignment with foreign, development, and environment policy priorities, for example through a special fund raising effort.

1.6.2   Working with the Advisory Board Task Forces to: i) articulate CTCN value-added and unique selling points; ii) develop, assess, and recommend strategies to increase donor base and level of contribution; iii) develop, assess, and recommend options for new funding opportunities, including through partnerships with philanthropic foundations, and particularly with new public-private climate technology initiatives that could benefit from the infrastructure of the CTCN and its insight into specific developing country needs.

1.6.3   Heightened focus on development of projects that have the potential to be scaled up and leverage significant funding from multilateral partners or country funds with targeted regional, development, or technology objectives.

1.6.4   Engagement with the Green Climate Fund and the Global Environment Facility, leveraging FM resources and TM expertise to deliver CTCN technical assistance in response to developing country requests.

2   Target outputs

The table below summarizes the target outputs for the fifth year of operations for the CTCN. The achievement of the outputs indicated below is subject to the availability of funds and to the number of requests received from developing countries.

Table 1: Target outputs for year 5

Outputs	Year 5
Service: Technical assistance in response to country requests	
TA requests with response plans under design	**50-70**
TA requests under implementation and concluded	**30-50**
Service: Outreach, networking and stakeholder engagement	
Number of thematic events	**4-6***
Number of Private Sector Engagement Events	**3 - 4**
Number of social media followers	**2400**
Number of Network members with gender expertise	**25**
Number of partnerships and twinning arrangement	**4-6**
Total Number of Network institutions	**300**
Number of TA requests implemented by Network members	**20-30**
Service: Knowledge Management, peer learning and capacity building	
Regional Forums organized	**6 – 9***
Thematic programme trainings	**5 – 10***
National events supported	**5 – 10***
Online tools and information materials, including coverage of lessons and best practices captured	**11,500**
Number of knowledge partners contributing to KMS	**20 - 30**
Number of relevant online resources incorporating gender	**200**
Number of trained CTCN NDEs	**100**
Number of trained CTCN clients	**500**
Annual number of KMS site visits	**100,000**
Webinars organized	**10 - 15**
CTCN produced materials on technical assistance	**30**
Number of new countries enrolled in the Incubator Programme	**4 - 6**
Number of Secondees	**2**

* Subject to available budget

3   2018 Budget

The CTCN would be able to refine, design, and respond to 30 - 50 requests within the budget. In addition, the CTCN expects to be able to refine, design, and respond to 10-20 requests through the GCF Readiness Support Programme, as well as through the in-kind / pro bono resources made available by NDEs and Network Members.

2018 BUDGET

Main Component	2018 BUDGET
1. Technical assistance in response to country requests	
Requests coordination, refinement, support	540 000
Requests implementation (including Ask an Expert Service)	4 360 000
TOTAL	**4 900 000**
2. Outreach, networking and stakeholder engagement	
Outreach and Communication	120 000
CTCN NDEs and Networking Engagement	410 000
Stakeholder Engagement	180 000
TOTAL	**710 000**
3. Knowledge Management, peer learning and capacity building	
KMS Technical Development	180 000
KMS Content Development	290 000
Capacity Building activities and material	470 000
Monitor and Evaluation	60 000
TOTAL	**1 000 000**
4. CTC operation costs	
CTC operations	2 300 000
AB Meetings and other UN meetings	200 000
TOTAL	**2 500 000**
GRAND TOTAL[3]	**9 110 000**
ESTIMATED PROGRAMME SUPPORT COST	**850 000**
GRAND TOTAL INCLUDING PSC	**9 960 000**

Annex: Potential Additional Sources of Support and Expected Activities

Main Component	Estimated GCF support to countries through the CTCN[2]	Estimated funds from In-kind / Pro bono support[2]	Guidance for allocation if funds over the 2018 budget are secured[1]
1. Technical assistance in response to country requests			
Requests coordination, refinement, support	175 000		750 000
Requests implementation (including Ask an Expert Service)	2 500 000	500 000 - 1 000 000	9 050 000
TOTAL	**2 675 000**	**500 000 – 1 000 000**	**9 800 000**
2. Outreach, networking and stakeholder engagement			
Outreach and Communication			200 000
CTCN NDEs and Networking Engagement			600 000
Stakeholder Engagement			500 000
TOTAL			**1 300 000**
3. Knowledge Management, peer learning and capacity building			
KMS Technical Development			200 000
KMS Content Development			290 000
Capacity Building activities and material	700 000		850 000
Monitor and Evaluation			100 000
TOTAL	**700 000**		**1 440 000**
4. CTCN operation costs			
CTCN operations			2 300 000
AB Meetings and other UN meetings			200 000
TOTAL			**2 500 000**
GRAND TOTAL	**3 375 000**	**500 000 – 1 000 000**	**15 040 000**

1. *If additional funds are secured to allow for additional activities under the High Impact Scenario, the secretariat shall be guided by these estimates. Additional activities under the High Impact Scenario include the following activities, the first steps of which will be taken under the approved budget:*
   - *Scale up and deployment of priority technologies on a regional basis through engagement of the private sector using mechanisms like the business model canvas, opportunity analytic tools, etc.*
   - *Private sector innovation programme and awards and SME technology clinics at national level and sub regional forums, focal points forums and Incubator programme for SIDS and more numbers of thematic capacity building modules*
   - *Launch of "ask an expert service" for adaptation and mitigation issues.*
2. *Assumptions have been made based on CTCN operations to estimate possible funding from other sources. The funding decision making process rests with the funding sources.*

4   5 Year Budget Scenario based on CTCN current mandate provided by the Advisory Board. The CTCN Advisory Board notes that this budget represents the decision on the budget envisioned by the Advisory Board in 2013.

Main components	Year					
	2014	2015	2016	2017	2018	TOTAL
1. Technical assistance in response to country requests						
Requests coordination, refinement, support	350 000	1 100 000	2 000 000	2 700 000	2 900 000	9 050 000
Requests implementation	2 000 000	8 300 000	15 000 000	20 300 000	21 000 000	66 600 000
SUB-TOTAL	**2 350 000**	**9 400 000**	**17 000 000**	**23 000 000**	**23 900 000**	**75 650 000**
2. Outreach, networking and stakeholder engagement						
Outreach and Communication	50 000	300 000	500 000	500 000	500 000	1 850 000
Networking (including regional CTCN Forums)	600 000	800 000	1 000 000	1 000 000	1 000 000	4 400 000
Stakeholder Engagement	200 000	500 000	500 000	500 000	500 000	2 200 000
SUB-TOTAL	**850 000**	**1 600 000**	**2 000 000**	**2 000 000**	**2 000 000**	**8 450 000**
3. Knowledge Management, peer learning and capacity building						
KMS Technical Development	800 000	900 000	300 000	300 000	300 000	2 600 000
KMS Content Development	400 000	400 000	500 000	500 000	500 000	2 300 000
Capacity Building activities and material	250 000	400 000	600 000	700 000	700 000	2 650 000
SUB-TOTAL	**1 450 000**	**1 700 000**	**1 400 000**	**1 500 000**	**1 500 000**	**7 550 000**
4. CTCN establishment and operations costs						
CTCN operations	1 200 000	1 600 000	2 300 000	2 300 000	2 300 000	9 700 000
AB Meetings and other UN meetings	100 000	100 000	200 000	200 000	200 000	800 000
Monitoring and Evaluation	50 000	100 000	100 000	100 000	100 000	450 000
SUB-TOTAL	**1 350 000**	**1 800 000**	**2 600 000**	**2 600 000**	**2 600 000**	**10 950 000**
GRAND TOTAL	**6 000 000**	**14 500 000**	**23 000 000**	**29 100 000**	**30 000 000**	**102 600 000**