

Country	Republic of Uganda
Request ID#	2023000022
Title	Technical Assistance Towards the Development of a Project Proposal for the Implementation of Climate Adaptation and Mitigation Technologies to Address Climate Challenges in Specific Sectors Based on Uganda’s Technology Needs Assessment Outcomes.
NDE	Uganda National Council of Science and Technology Mr. Maxwell Otim Onapa Director, Research, and Innovation UNFCCC-CTCN NDE : Focal Point maxwell.otim@gmail.com , maxwell.otim@atomiccouncil.go.ug Plot 6, Kimera Road, Ntinda P.O Box 6884, Kampala, Uganda
Proponent	Ministry of Water and Environment Mr. Alfred Okot Okidi Permanent Secretary Alfred.okidi64@gmail.com Plot 3 – 7, Kabalega Crescent Road, Luzira P.O. Box 20026 Kampala, Uganda

Summary of the CTCN technical assistance

The summary should provide a brief description of the problem (barrier to climate technology deployment) and how the technical assistance will address it (brief summary of outputs and activities). Please also briefly indicate national actors involved and the anticipated timeline. (maximum 1250 characters including spaces)

Uganda is actively working to mitigate climate change effects, yet the challenge of creating bankable project proposals for climate finance access through UNFCCC mechanisms remains a barrier to executing adaptation and mitigation strategies effectively. To advance the implementation of climate technologies in Eastern Uganda, as outlined in the Technology Action Plan (TAP), there is a need for the development of a viable project proposal targeted at the Green Climate Fund (GCF). This will involve close collaboration with key national stakeholders including the Ministry of Water and Environment, Ministry of Agriculture Animal Industry and Fisheries in its capacity of key partner and GCF national direct access accredited entity, and local community organizations. The technical assistance required for this initiative will cover a twelve-month period, featuring two stakeholder consultation workshops aimed at developing a comprehensive project proposal. This proposal aims to secure financing for vital climate technologies in Uganda. The project is committed to working alongside national stakeholders, drawing on a wealth of expertise, to facilitate the adoption of climate technologies and foster rural development in Eastern Uganda, aligning with the country's National Determined Contributions (NDCs).

 **Technical Assistance Response Plan -
Terms of Reference**

Agreement:
(If possible, please use electronic signatures in Microsoft Word file format)

National Designated Entity to the UNFCCC Technology Mechanism Name: Mr. Maxwell Otim Onapa Title: Director, Research, and Innovation Date: 20 February 2024 Signature: 	Proponent (signature of the Proponent is optional) Name: Margaret Athieno Mwebesa Title: Commissioner, Climate Change/UNFCCC National Focal Point Date: 21/02/2024 Signature: 
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UNFCCC Climate Technology Centre and Network (CTCN)
Name: Rajiv Garg
Title: CTCN Director (a.i)
Date:
Signature: 
22/02/2024

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1. Background and context

Please provide a brief description of the background and context for the CTCN Response Plan. Please include national and sectoral information using recognized and publicly available sources. (maximum 2500 characters including spaces).

Uganda is steadfast in its commitment to counteract the significant impacts of climate change and is unwavering in its pursuit of a sustainable and less carbon-intensive development path. The nation has made commendable progress by integrating climate change considerations into both national and sub-national planning frameworks, as evidenced by the adoption of the National Climate Change Policy, the Climate Change Bill 2020, and the Energy Policy for Uganda. These policies are indicative of Uganda's proactive stance in addressing the multifaceted challenges posed by climate change.

However, Uganda's journey is far from over, as it continues to grapple with the vulnerabilities associated with adverse climate impacts, especially in pivotal sectors like agriculture, energy, forestry, and water. These vulnerabilities act as roadblocks to the nation's socioeconomic progress, disrupting both human livelihoods and ecological systems. In a strategic move to counter these challenges, Uganda has embarked on a comprehensive assessment to pinpoint specific vulnerabilities, barriers impeding effective climate action, and strategies that are uniquely suited to the nation's context.

As part of this strategic approach, Uganda carried out a Technology Needs Assessment (TNA) with a particular focus on the energy sector. The purpose of the TNA was to discern and prioritize technologies that contribute to both climate resilience and development goals. The TNA was directed by three main objectives: to enumerate and scrutinize climate change mitigation technologies, to tackle barriers that prevent the deployment of these technologies, and to develop Technology Action Plans (TAPs) that facilitate the implementation of the prioritized technologies.

The TNA has led to the identification of three pivotal technologies, each accompanied by a specific TAP. First is the augmentation of solar energy infrastructure, aiming to establish 65 MW of solar photovoltaic (PV) capacity across households, educational institutions, and healthcare facilities. Second is the promotion of efficient institutional cook stoves, targeting the construction of 1,000 stoves in 500 schools, thereby achieving substantial savings in firewood consumption. The third is the advancement of bio-latrines using biogas technology, with plans to construct 500 units in schools to mitigate the reliance on firewood.

To facilitate the execution of these TAPs, the Government of Uganda is diligently preparing a comprehensive project proposal to tap into funding from global financial mechanisms under the United Nations Framework Convention on Climate Change (UNFCCC). This tailored initiative aims to support the deployment and operationalization of prioritized technologies in Eastern Uganda, driving forward the country's sustainable development and enhancing regional resilience.

2. Problem statement

Founded on the national and sectoral context as detailed in the section above, please include a brief problem statement clarifying the main problems and barriers for climate change mitigation and/or adaptation in terms of climate technologies that the CTCN Response Plan will address and overcome.

(maximum 1250 characters including spaces).

Despite Uganda's earnest national and local efforts to enhance production efficiency and climate resilience across sectors like agriculture and water, the nation faces a myriad of challenges. These include a constrained capacity to tap into climate financing, a limited understanding of climate-smart technologies, prohibitive costs, and restricted access to technology providers. A specific concern is the country's struggle to develop fundable project proposals to secure climate finance from UNFCCC mechanisms, notably the Green Climate Fund, Adaptation Fund, and Global Environment Facility, for implementing the Technology Action Plan and deploying climate-smart technologies effectively. The barriers to adopting climate-resilient technologies are multifaceted and include:

1. Financial Barriers:

- High initial costs of adopting climate technologies at the grassroots level.
- Ambiguous tax policies regarding solar components.
- Lack of accessible financial mechanisms like loans or grants, coupled with the high cost of technologies.
- Institutional budget conflicts and prioritization issues.

2. Knowledge and Awareness Constraints:

- Insufficient understanding of climate technologies and underestimation of escalating climate risks and the urgency of sustainable transitions.
- Limited information on the benefits of adopting climate technologies.
- Gaps in skills for installing, operating, and maintaining these technologies at the community level.

3. Private Sector and Income Constraints:

- Minimal investment from the private sector and generally low disposable income among citizens.
- Poor connectivity between technology providers and local communities, often due to financial barriers.
- Inadequate personal funds to invest in new technologies.

4. Coordination and Communication Challenges:

- Inefficient coordination between research bodies and agricultural extension services, leading to ineffective dissemination of information about climate-smart technologies.
- Inadequate communication channels between local communities, technology providers, and experts, limiting the reach of education and awareness on these technologies.

3. Logical Framework for the CTCN Technical Assistance:

(Guidance: Please note that multiple activities lead to one Output, and multiple Outputs lead to one Outcome. There can be several Outputs, but only one Outcome description capturing the CTCN technical assistance. Deliverables are the products or services to be delivered to the NDE/Proponent/CTCN based on the Activities and the Outputs.)

	<p>Objective: Please provide a one sentence description of the Objective of the technical assistance. The objective of the CTCN technical assistance reflects what the assistance aims to produce and impact.</p> <p>The primary objective of this technical assistance in crafting a detailed and fundable project proposal for the Green Climate Fund. This proposal is intended to secure necessary funding for implementing climate-resilient technologies in Eastern Uganda, as outlined in the national Technology Action Plan (TAP). The focus is on ensuring that the proposal meets the criteria for funding and effectively supports the deployment of crucial technologies to mitigate and adapt to climate change impacts in the region.</p>
	<p>Outcome: <i>(Guidance: The Outcome articulates changes in the institutional and behavioural capacities for climate technology development or deployment. Activities and Outputs contribute to the Outcome but the Outcome is not within the direct control of the CTCN activities). (maximum 400 characters including spaces)</i></p> <p>The project's expected result is the enhanced ability of essential stakeholders to utilize expertise in formulating suitable and fundable project proposals for the Green Climate Fund (GCF), aimed at securing financing for the nationwide deployment of climate technologies. Additionally, it aims to enrich the understanding of relevant stakeholders about the climate technology financing mechanisms under the UNFCCC, thereby facilitating the acquisition of climate finance for upcoming climate mitigation and adaptation initiatives.</p>

	Month 2024												
	-1	1	2	3	4	5	6	7	8	9	10	11	12
Output 1: Development of a response plan, implementation planning, and communication documents													
Activity 1.1: Develop a comprehensive Response Plan													
Activity 1.2: Formulate an implementation plan													
Activity 1.3: Develop a Monitoring and Evaluation Plan													
Activity 1.4: Organize an inception meeting with key stakeholders to share plans and get feedback													
Activity 1.5: CTCN Impact Description (Initial and Final Version)													
Activity 1.6: Closure and Data Collection Report													

4. Resources required and itemized budget:

Please provide an *indicative overview* of the resources required and itemized budget required to implement the CTCN technical assistance, including for M&E-related activities, using the table below. Important to note that minimum 1% of the budget should explicitly target gender specific activities related to the technical assistance (please see section 10 for further information on gender). Once the Response Plan is completed, a Response Implementation partner(s) will be selected by the Climate Technology Centre (CTC). A detailed activity-based budget for the CTCN assistance will be finalized by the CTCN and selected Implementer.

Activities and Outputs	Input: Human Resources (Title, role, estimated number of days)	Input: Travel (Purpose, national vs. international, number of days)	Inputs: Meetings/events (Meeting title, number of participants, number of days)	Input: Equipment/Material (Item, purpose, buy/rent, quantity)	Estimated cost <i>Please accumulate the costing at Activity and Output level and provide an estimated costing range for each activity and the total Response Plan</i>	
					Minimum	Maximum
Output 1: Development of implementation planning and communication documents					5800	5800
Activity 1.1: Formulation of i) Detailed work plan, ii) Monitoring and evaluation plan, iii) CTCN Impact Description, iv) Closure and Data Collection report. Activity 1.2: Inception meeting	<i>Personnel Cost:</i> <i>International:</i> -Partner expert 2 days - Senior international expert 1 – 3 days - Junior International expert – 6 days <i>Personnel Cost: local experts:</i> - Senior local expert – 1 day				5800	5800
Output 2: Develop a					11,050	11,050

<p>conceptual framework leading to the project proposal for leveraging finance from entities under the financial mechanism of the</p>						
<p>Activity 2.1: Kick-off workshop to present the implementation timeline, collect first-hand information, and discuss consultation modalities,</p> <p>Activity 2.2: Draft a conceptual framework for the project proposal.</p> <p>Activity 2.3: Draft a comprehensive concept note</p>	<p><i>Personnel Cost: International:</i></p> <ul style="list-style-type: none"> - Partner expert 5 days - Senior international expert 4 days - Junior International expert – 5 days <p><i>Personnel Cost: local experts:</i></p> <ul style="list-style-type: none"> - Senior local expert – 4 days - Junior local expert 4 days 	<p><i>International Travel cost</i></p> <p><i>Air tickets – 1 person 1200</i></p> <p><i>DSA 5 days - 1 person</i></p>	<p><i>Workshop, Stakeholder Engagement Cost, senior expert (survey, meetings, data collection and analysis, liaison with stakeholders) – 5 days venue or related</i></p>		<p>11,050</p>	<p>11,050</p>
<p>Output 3: Engage local counterparts in Uganda to facilitate the process of developing the proposal.</p>					<p>25,550</p>	<p>25,550</p>
<p>Activity 3.1: Create first draft of the project proposal</p> <p>Activity 3.2: Consult the Ministry of Water and</p>	<p><i>Personnel Cost: International:</i></p> <ul style="list-style-type: none"> - Partner expert 10 days - Senior international expert 10 days - Junior International expert – 10 days 	<p><i>Travel cost</i></p> <p><i>Air tickets – 1 person 1200</i></p> <p><i>DSA – 5 days 1 person</i></p>	<p><i>Stakeholder engagement cost: 3100</i></p>		<p>25,550</p>	<p>25,550</p>

<p>Environment and other key stakeholders to obtain their input into the proposal.</p> <p>Activity 3.3: Presenting the draft project proposal to the target communities to obtain their input on the proposal.</p>	<p><i>Personnel Cost: local experts:</i> - Senior local expert – 15 days - Junior local expert – 10 days</p>					
Output 4: Validation of the project proposal					20,600	20,600
<p>Activity 4.1: Organize a workshop of stakeholders to validate the project proposal.</p> <p>Activity 4.2: Integrate input from the workshops and consultations for the development of a final proposal.</p> <p>Activity 4.3: Drafting a PPF</p>	<p><i>Personnel Cost:</i> <i>International:</i> - Partner cost 8 days - Senior international expert 8 days - Junior International expert – 8 days <i>Personnel Cost: local experts:</i> - Senior local expert – 5 days Junior local expert – 5 days</p>	<p><i>Travel cost</i> Air tickets – 1 person 1200</p> <p>DSA 4 days – 1 person</p>	<p>Webinar, Stakeholder Engagement Cost, senior expert (survey, meetings, data collection and analysis, liaison with stakeholders) – 4 days venue or related</p> <p>Stakeholder engagement cost - 2000</p>		20,600	20,600
Output 5: Submit the final project proposal to GCF					12,000	12,000
<p>Activity 5.1 Address feedback received from the GCF.</p> <p>Activity 5.2 Submit to the</p>	<p><i>Personnel Cost:</i> <i>International:</i> - Partner expert 5days - Senior international</p>				12,000	12,000

GCF final proposal with comments addressed and PPF package. Activity 5.3: Final report	<i>expert 5 days</i> <i>- Junior International expert – 5 days</i> <i>Personnel Cost: local experts:</i> <i>- Senior local expert – 5 days</i> <i>- Junior local expert 5 days</i>						
Estimated range of costing for the entire Response Plan						75,000	75,000

5. Profile and experience of experts

Based on the required Human Resources identified in section 4 (Resources required and itemized budget) please provide a description of the required profile of all involved experts for the implementation of the CTCN Response Plan.

Experts required	Brief description of required profile
<i>Please use the same titles for all experts as applied in section 4.</i>	<i>Please provide a short description of expertise and experience needed (education, sectors of expertise, years of experience, country experience, language requirements, etc.).</i>
Senior international expert	Advanced degree, 15+ years’ experience in climate finance, project development, and climate impacts assessment globally, 3-5 similar projects in the last 2 years, English
Junior international expert	Master’s degree, 5+ year experience in climate finance, project development, and climate impacts assessment finance globally, 1 similar project in the last 1 year, English
Senior local expert	Master’s degree, 15+ year experience in climate change, climate finance globally, 2-3 similar projects in the last 2 years, English and at least one local language
Junior local expert	Master’s degree, 5+ years’ experience in climate change, communication, stakeholder engagement, and gender mainstreaming in the context of climate change adaptation, English and at least one local language

6. Intended contribution to impact over time.

Please provide a brief description of the intended contribution to impact over time of the outcome and outputs provided by this technical assistance on resilience to climate change and/or carbon abatement. To the extent possible, please quantify the intended impact contribution, for example by indicated estimated number of people potentially impacted over time, GDP contribution of the focus sector, carbon emissions by the focus sector, etc. This intended contribution to impact is what will happen if the objective (as articulated in section 3) is met. Please ensure relevant complementarity with text in sections 7 to 12. (maximum 1250 characters including spaces)

The successful completion of this project will constitute a significant milestone for Uganda, setting a precedent for future endeavors in climate resilience and strategic financing, particularly from sources like the Green Climate Fund (GCF). One of the key results will be the fostering of improved collaboration and knowledge sharing among stakeholders, thereby strengthening their joint capabilities to combat the challenges of climate change.

Central to this initiative is the adoption of practical climate technologies aimed at transforming key sectors such as agriculture, forestry, energy, and water in Uganda. According to the Technology Action Plan (TAP), these technologies are projected to save an estimated 112,730 tons of firewood over five years and decrease greenhouse gas emissions from the energy sector by 1,668,572 tons CO₂ eq. This transition is expected to lead to a reduction in respiratory diseases due to lower firewood usage and contribute to cleaner air quality over time.

Building capacity and providing targeted training is a critical aspect of the project. The initiative intends to empower local communities, government entities, and businesses with the necessary skills to effectively utilize these climate technologies, ensuring a lasting impact. This approach is designed to equip people at various levels with the knowledge and tools to adapt to the changing climate dynamics.

The initiative is meticulously designed to establish a scalable framework for resilience, offering a model for climate resilience that could align with the Green Climate Fund's (GCF) concept note criteria. This strategic approach positions Uganda favorably for future green funding opportunities. Additionally, the project underscores the importance of stakeholder engagement and cooperation, promoting a unified strategy to more effectively tackle climate change challenges. The insights and experiences gained from this project are expected to inform and inspire future climate resilience strategies both within Uganda and in the global community.

7. Relevance to NDCs and other national priorities

Please identify relevance and contribution from the technical assistance to the Nationally Intended Contributions (NDC) and other relevant national prioritized efforts (TNAs, TAPs, NAPs, NAMAs, etc.). (maximum 2500 characters including spaces)

The Technical Assistance (TA) from the CTCN is strategically designed to enhance and align with Uganda's robust efforts in addressing climate challenges, as outlined in its National Determined Contributions (NDC) and other strategic national plans. This ensures that the TA acts as a supportive extension to the country's comprehensive climate strategy, rather than an isolated activity.

The TA's focus on building the capacity of stakeholders to implement the Technology Action Plan (TAP) and fostering increased coordination, collaboration, and knowledge sharing directly supports Section 4.2 of Uganda's updated 2022 NDC, which emphasizes capacity building for institutions and the public. Moreover, the TA's gender-sensitive approach aligns with and bolsters the gender mainstreaming efforts outlined in Section 4.3 of the NDC, thus contributing to the broader national climate agenda.

Additionally, the TA addresses critical climate technologies in the agriculture, water, forestry, and energy sectors, which are pivotal in enhancing community resilience to climate change effects as delineated in the recent TAP. By facilitating access to necessary funds for the deployment of these technologies, the TA is set to improve productivity and livelihoods in communities throughout Eastern Uganda.

The TA's alignment with the National Adaptation Programmes of Action (NAPA) is evident in its emphasis on vital technologies like water harvesting, recognized as key adaptations to combat drought impacts on local communities. This initiative does not only equip communities with the means to implement rainwater harvesting technologies but also aids in mitigating adverse effects from identified coping mechanisms, bolstering Uganda's resilience strategies.

In harmony with the Third National Development Plan (NDP III: 2020-2025), the TA is attuned to climate interventions that focus on conserving water resources, forest reserves, and the broader environment. By aiding in the procurement of essential financial resources, the TA complements the planned interventions under NDP III, ensuring a cohesive and robust approach to climate resilience and sustainable development in Uganda.

Overall, the TA transcends mere technological support; it is embedded in Uganda's vision and strategy, offering a holistic, integrated, and multi-faceted approach to combatting climate change impacts. This strategic congruence ensures that the initiative is sustainable, scalable, and impactful, propelling Uganda towards achieving its climate objectives.

8. Linkages to relevant parallel on-going activities:

Please identify relevant previous and ongoing public and private sector initiatives, projects or programmes that the CTCN assistance will specifically build on and contribute to. To the extent possible, please add practical and operational details on the linkages between existing activities and the CTCN assistance. (maximum 2500 characters including spaces)

The Ugandan Government, with a keen understanding of the immediate necessity for comprehensive climate action, actively engages in global climate change forums, including discussions, negotiations, and decision-making essential for combating climate change. Through the Ministry of Water and Environment and other principal national bodies, the government has initiated various programs and policy measures aimed at mitigating and adapting to climate change.

In 2017, the country sought assistance to develop a Pay-As-You-Go (PAYG) strategy via mobile banking systems to alleviate financial hurdles hindering end-user access to climate technologies such as clean cook stoves. This approach is envisaged as a vital financial tool, and the Technical

Assistance (TA) will support this endeavor by formulating and executing financial incentives to broaden access to energy-efficient cook stoves, solar PV systems, and bio-latrines.

This TA will also leverage the successes of the recently concluded assistance for a geothermal direct use project in Uganda. Harnessing geothermal resources for direct utilization is an effective method for countries to achieve their greenhouse gas reduction targets, as it replaces the need for biomass and fossil fuels. Through the construction of energy-efficient cookstoves, bio-latrines, and solar energy generation, the TA aims to diminish the reliance on firewood for energy in rural communities, thereby reducing natural greenhouse gas emissions by 22,546 tons CO₂ eq annually.

Furthermore, the institutional capacity building achieved will be instrumental in executing prioritized technologies under this TA. The reports and literature produced during this project will serve as valuable resources throughout the implementation of this TA, providing a solid foundation and reference for future climate action efforts

9. Anticipated follow up activities after this technical assistance is completed:

Please describe the expected future use of the outputs and deliveries produced by this technical assistance, after the CTCN implementation is completed, towards contributing to the anticipated impacts over time articulated in section 6. For example, what organizations or stakeholders will use the outputs of the technical assistance after it is completed, for what purpose, at what scale and scope the outputs and deliveries will be applied, when and what will be the next steps undertaken, etc. (maximum 2500 characters including spaces)

The upcoming Technical Assistance (TA) is set to be a cornerstone for Uganda's evolving climate change strategies and policies. As this comprehensive program concludes, its outputs are expected to significantly influence the direction of the nation's efforts towards climate resilience.

A vital element of this initiative is Output 2.1, derived from a series of knowledge-sharing activities. This output will provide insights into a range of climate technologies and their applicability at both national and sub-national levels. The workshop report produced from this output aims to enhance the understanding of these technologies within key governmental entities, thereby enriching future climate change mitigation and adaptation strategies and policy development across various governance levels.

Concurrently, Output 3.1 aims to equip national stakeholders with the necessary skills to develop robust and fundable project proposals for Development Finance Institutions (DFIs). This empowerment is intended to facilitate the acquisition of funds for pivotal climate change projects in the future. The consultations conducted as part of this output are designed to not only improve individual capacity but also promote a collective approach among stakeholders towards climate change challenges.

Incorporating insights from local communities is a crucial aspect of this initiative. Engaging directly with those impacted by climate change will provide valuable perspectives and spur community groups and Civil Society Organizations (CSOs) to advocate for climate action within their localities. This enhanced local engagement is expected to drive more active community involvement in climate change actions at the grassroots level.

The array of outputs and deliverables from this TA will play a critical role in shaping future projects and initiatives within Uganda. These will aid in enhancing agricultural productivity, reducing post-harvest losses, conserving forests, and encouraging green energy adoption. Furthermore, they will serve as key references for future project proposals and funding applications, guiding the refinement of technologies and the expansion of successful initiatives across the country. The collective endeavors initiated by this TA are set to make a lasting impact, steering Uganda towards a more resilient and sustainable future.

10. Gender and co-benefits:

Imbedded in design of the activities:

A gender mainstreaming analysis is mandatory to include for all technical assistances. A gender expert will be assigned to carry out an assessment and evaluation regarding gender mainstreaming during the implementation of the TA.

In addition, please describe all support to gender aspects, women’s equality and other co-benefits embedded into the Response Plan (please include a reference to the actual activities and outputs as described in section 3).

This Technical Assistance (TA) is committed to integrating gender considerations in line with national policies and strategies addressing climate change effects. The aim is to ensure inclusive participation in decision-making and equitable access to climate technologies for all, with a particular focus on enhancing women's engagement in climate-resilient agricultural practices, thereby improving their livelihoods and contributing to sustainable development.

Activity 2.1, specifically the workshop, will be dedicated to building a robust understanding of climate technologies, incorporating women's insights and experiences. Initial steps will involve gender-specific consultations to grasp the distinct needs and obstacles women and other marginalized groups face in accessing and utilizing climate technologies.

In crafting the project proposal, a gender-sensitive lens will be applied to address and rectify any disparities, ensuring women's equal participation in the TA. Project activities will be designed to significantly increase women's involvement, embedding their specific requirements and perspectives throughout the initiative.

Moreover, the TA will conscientiously consider gender dynamics and cultural contexts to prevent any adverse effects on women's participation. In both the initial and subsequent workshops, dialogues with local experts and community members will be organized to understand how the proposed technologies might influence gender relations. Throughout the TA, vigilant steps will be taken to ensure women's inclusion and access to the benefits of the initiative, safeguarding their livelihoods and rights. This approach will

	<p>ensure that while women are empowered and engaged, their well-being and social standing are not compromised but rather enhanced.</p>
<p>Gender and co-benefits intended as result of the activities:</p>	<p><i>Please describe all gender aspects, women’s equality and other co-benefits expected as a result of the CTCN technical assistance.</i></p> <p>The technical assistance from the CTCN is a pivotal move towards bolstering gender equality and inclusion, particularly within the key sectors of agriculture, energy, forestry, and water. With a committed gender-responsive approach, this initiative is designed to ensure equitable access to and benefits from climate technologies for both men and women.</p> <p>Central to this initiative is the dissemination of climate technology information, emphasizing the promotion of gender equality. This approach not only aims to empower women through socio-economic upliftment but also to position them at the forefront of seizing new opportunities for enhanced income and livelihoods. By building knowledge and competencies in climate technology, the project paves the way for women to enter green jobs, opening doors to economic empowerment and prosperity.</p> <p>At the bare minimum, the project is firmly committed to ensuring gender-balanced participation in all its activities, including the proactive involvement of women-led groups and Civil Society Organizations (CSOs) advocating for gender equality. This commitment to inclusivity not only enriches the impact of the project but also establishes a model for integrating gender considerations into future projects and national initiatives.</p> <p>Ultimately, this technical assistance does more than just address current gender disparities; it establishes a foundation for a more gender-sensitive and inclusive approach in forthcoming national policies, initiatives, and funding proposals. The deepened understanding and integration of gender aspects are set to act as a catalyst for enduring change, steering climate-related projects and policies towards a path of greater equality and inclusivity.</p>

11. Main in-country stakeholders in implementation of the technical assistance activities:

Using the table below, please list and describe the role of in-country stakeholders, participants and beneficiaries who will be involved in or directly consulted during implementation of the assistance.

In country stakeholder	Role in implementation of the technical assistance
National Designated Entity (NDE)	Will provide guidance and coordination for scientific research, development, and all parts of the project relating National innovation System.
Ministry of Water and Environment (Climate Change Department)	Will support the development of effective management practices of water and environmental resources for the socioeconomic development. Can

	provide useful data on water and climate. Will help map the existing gaps in this sector. Project proponent and NIE Uganda for GCF.
Ministry of Agriculture, Animal Industry and Fisheries	Will help with the review and implementation of national policies, plans, strategies, regulations, and standards and enforce laws, regulations and standards that will be recommended from this project along the value chain of crops, livestock, and fisheries. Will help map the existing gaps in this sector.
Ministry of Energy and Mineral Development	Will help map the existing gaps in this sector and provide necessary data to be used in the implementation of the TA
National Forestry Authority	Will oversee and provide guidelines in the development of legal frameworks and policies in forestry-related products and services to government, local communities, and the private sector
Ministry of Gender Labour and Social Development	Will guide in the gender inclusive agenda of the project. Issue current guidelines on the law and policy on gender rules
Ministry of Local Government and District Authorities	Collaborate, guide and supervise the implementation of the programme
Community members from Eastern Uganda	Direct beneficiaries of the project. Can help in the review process of the developed policies.
<i>TBD</i>	

12. SDG Contributions:

Instructions: Please complete the grey section below for a maximum of three SDGs that will be advanced through this TA. A complete list of SDGs and their targets is available here:

<https://sustainabledevelopment.un.org/partnership/register/>.

Goal	Sustainable Development Goal	Direct contribution from CTCN TA (1 sentence for top 1-3 SDGs)
1	End poverty in all its forms everywhere	
2	End hunger, achieve food security and improved nutrition, and promote sustainable agriculture	By implementing technologies that limit post-harvest losses and community-based irrigation systems, the TA will reduce vulnerabilities, increase agricultural yields and food reserves resulting in increased food security for the local communities in Eastern Uganda.
3	Ensure healthy lives and promote well-being for all at all ages	
4	Ensure inclusive and equitable quality education and promote life-long learning opportunities for all	
5	Achieve gender equality and empower all women and girls	The technical assistance is strategically designed to champion gender equality and inclusivity across every facet of the project. Through the integration of a gender-responsive approach, the project seeks to establish and uphold equal opportunities for both men and women in accessing and deriving benefits from climate technologies, with a specific focus on the target sectors. This commitment to a gender-inclusive framework underscores the project's dedication to fostering equitable participation and outcomes, acknowledging the diverse needs and contributions of individuals irrespective of gender. By prioritizing a gender-responsive approach, the

		project aims to create a more inclusive and empowering environment, recognizing the pivotal role that gender equality plays in the successful adoption and impact of climate technologies in critical sectors.
6	Ensure availability and sustainable management of water and sanitation for all	
7	Ensure access to affordable, reliable, sustainable, and modern energy for all (consider adding targets for 7)	
	7.1 - By 2030, ensure universal access to affordable, reliable and modern energy services	
	7.2 - By 2030, increase substantially the share of renewable energy in the global energy mix	
	7.3 - By 2030, double the global rate of improvement in energy efficiency	
	7.a - By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology	
	7.b - By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programmes of support	
	8	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
9	Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation	
10	Reduce inequality within and among countries	
11	Make cities and human settlements inclusive, safe, resilient and sustainable	
12	Ensure sustainable consumption and production patterns	
13	Take urgent action to combat climate change and its impacts	<i>All TAs should indicate relevance to Goal 13 and at least one target below (13.1 to 13.b).</i>
	13.1 - Strengthen resilience and adaptive capacity to climate-related hazards and natural disasters in all countries	
	13.2 - Integrate climate change measures into national policies, strategies and planning	
	13.3 - Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning	
	13.a - Implement the commitment undertaken by developed-country parties to the United Nations Framework Convention on Climate Change to a goal of mobilizing jointly \$100 billion annually by 2020 from all sources to address the needs of developing countries in the context of meaningful mitigation actions and transparency on implementation and fully operationalize the Green Climate Fund through its capitalization as soon as possible	
	13.b - Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities	The Technical Assistance (TA) is carefully crafted to cultivate a profound understanding of climate technologies, emphasizing both adaptation and mitigation strategies within the targeted sectors. The TA aims to empower stakeholders with the tools needed for informed decision-making and the successful implementation of effective climate change action mechanisms. Furthermore, the TA places emphasis on engaging diverse stakeholders, including local communities and civil society, fostering inclusivity and ensuring that climate resilience efforts resonate with the unique contexts of the targeted sectors. This comprehensive and adaptive approach positions the TA as a key driver in building resilience and facilitating sustainable responses to the evolving challenges of climate change.
14	Conserve and sustainably use the oceans, seas and marine resources for sustainable development	
15	Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification,	

	and halt and reverse land degradation and halt biodiversity loss	
16	Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels	
17	Strengthen the means of implementation and revitalize the global partnership for sustainable development	

13. Classification of technical assistance:

Please indicate primary type of technical assistance. Optional: If desired, indicate secondary type of technical assistance.

<i>Please tick off the relevant boxes below</i>	<i>Primary</i>	<i>Secondary</i>
<input type="checkbox"/> 1. Decision-making tools and/or information provision	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 2. Sectoral roadmaps and strategies	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 3. Recommendations for law, policy and regulations	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 4. Financing facilitation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 5. Private sector engagement and market creation	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 6. Research and development of technologies	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 7. Feasibility of technology options	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> 8. Piloting and deployment of technologies in local conditions	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> 9. Technology identification and prioritization	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Please note that all CTCN technical assistance contributes to strengthening the capacity of in country actors.

14. Monitoring and Evaluation process

Upon contracting of the implementing partners to implement this Response Plan, the lead implementer will produce a monitoring and evaluation plan for the technical assistance. The monitoring and evaluation plan must include specific, measurable, achievable, relevant, and time-bound indicators that will be used to monitor and evaluate the timeliness and appropriateness of the implementation. The CTCN Technology Manager responsible for the technical assistance will monitor the timeliness and appropriateness of the Response Plan implementation. Upon completion of all activities and outputs, evaluation forms will be completed by the (i) NDE about overall satisfaction level with the technical assistance service provided; (ii) the Lead Implementer about the knowledge and learning gained through delivery of technical assistance; and (iii) the CTCN Director about timeliness and appropriateness of the delivery of the activities and outputs.

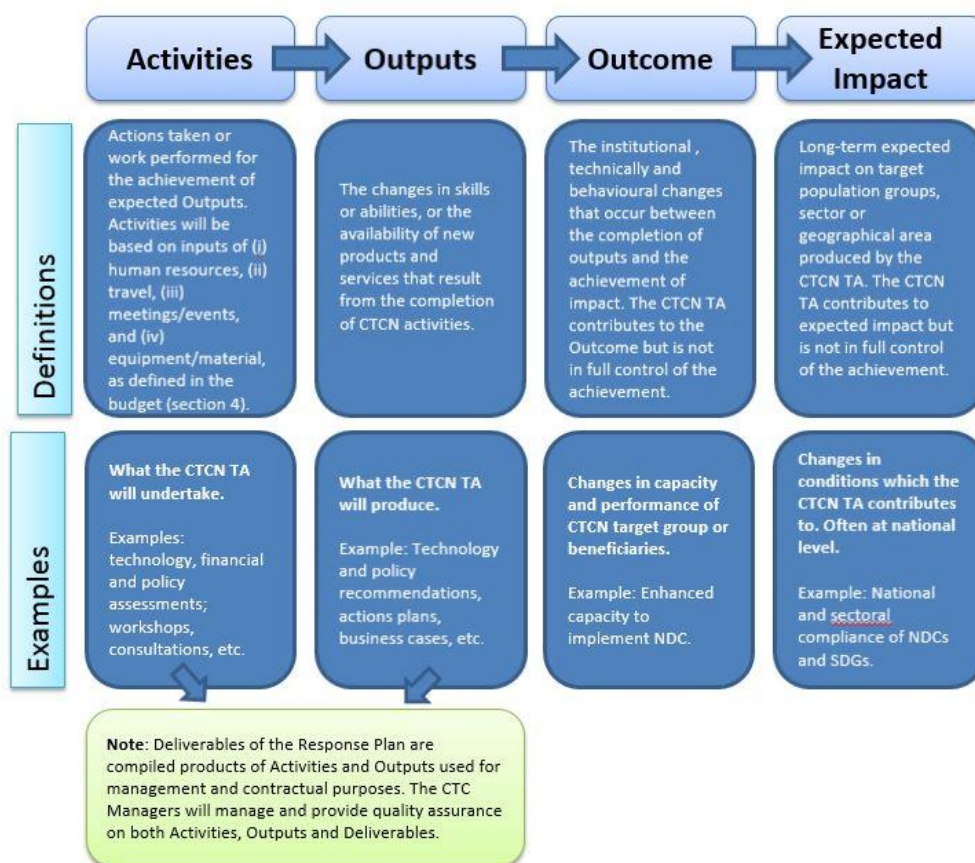
Annex 1: Guidance note for designing a Response Plan (to be deleted when submitting the Response Plan)

1. Objective of the Response Plan

The Response Plan is developed by CTCN specialists in response to a country request for technical assistance. It constitutes the Terms of Reference of the CTCN technical assistance that will be provided to the country and it provides the formulation of and subsequent basis for the monitoring and evaluation of the Response Plan implementation, as well as its expected outcomes and anticipated impacts.

2. Results chain and Logical Framework Approach to be defined in the CTCN Response Plan

The result chain is the causal sequence that stipulates the necessary flow of actions and processes to achieve desired objectives and results – beginning with inputs, moving through activities and outputs, and culminating in individual outcomes. The outcome will contribute to the desired impact in the society. The Logical Framework Approach is an analytical process used to support objectives-oriented project planning and management. It provides a set of pre-defined concepts which are used as part of an iterative process to aid structured and systematic analysis and management of the CTCN technical assistance.



3. Role of the Response Planning Design Team

The Response Planning Design Team is selected by the Climate Technology Centre (CTC). The composition of the team depends on each particular request but may include the National Designated Entity (NDE), the request Proponent, Climate Technology Manager of the CTCN, experts from the CTCN Consortium, UNIDO and UNEP experts from regional offices and other experts as needed.

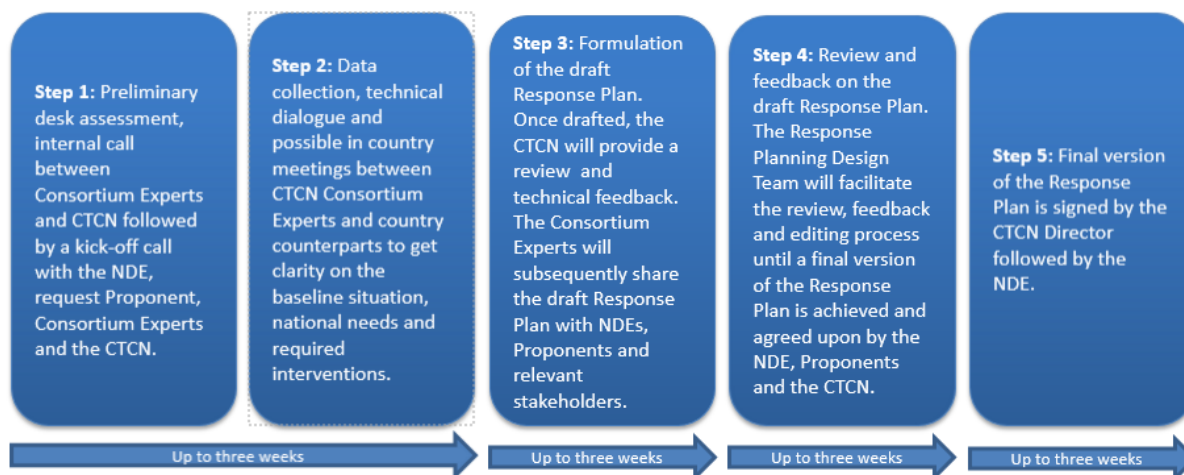
The role of CTCN Consortium experts is to lead the design of the Response Plan. The NDE will provide overall guidance on national context and priorities whereas the request Proponent will provide more detailed information on the sector, barriers and requested assistance. The Climate Technology Manager of the CTCN will provide quality assurance of timeliness and appropriateness of the Response Plan.

The Response Planning Design Team will draft all sections of the Response Plan template building on the information contained in the CTCN Request, based on expertise on the given topic and potentially further data collection, as required. This will be done by the CTCN Consortium Experts in consultation with the NDE, request Proponent and relevant stakeholders. The Response Plan has to be agreed to and approved by the NDE and the CTCN Director. This Response Plan will serve as the basis to identify, select and engage an expert institution from the Climate Technology Network or Consortium to lead the implementation of the CTCN Response Plan in the requesting country.

To the extent possible, staff from UNEP and UNIDO Regional, Sub-Regional and/or National Offices should be involve in all stages of formulation of the Response Plan to maximize synergies and avoid overlap with ongoing initiatives, as well as ensure relevance to regional and national context.

4. Process for designing the Response Plan

The Response Planning process should be completed over a period of up to 60 working days (12 weeks). Indicative steps and related timelines are laid out below:



5. Design Considerations

In order to maximize the impact of the technical assistance provided by the CTCN and provide an effective M&E process, the Response Plan should integrate as much as possible the considerations below:

Climate Technology focus: The Response Plan should have a clear focus on climate technologies, and identify activities that enable the identification, development, deployment or diffusion of one or several specific technologies (including equipment, techniques, knowledge and skills).

Barrier removal / Problem solving: The activities should contribute to address the specific problem statement identified in the Request. The barriers identified should be those hampering the identification, development, deployment or diffusion of one or several climate technologies or climate actions. Therefore, it may be necessary to limit the CTCN Response Plan to a set of activities for technical assistance commonly agreed with the NDE (and Proponent when needed) compared to the original request submitted. The CTCN will liaise with NDEs and Proponent in case the scope of the technical assistance deviates from the original request.

Use of the CTCN assistance by stakeholders: The Response Plan should identify clearly how the products of the CTCN assistance will be used in the short term once support is delivered, by who and when, to ensure it will lead to specific impacts in the country. The activities should engage the stakeholders that will use the concrete results of the assistance to deploy the technologies, including from the private sector, the public sector, research institutions, etc.

Within the scope of CTCN resources: The cost of the technical assistance provided by the CTCN cannot exceed USD 250,000 per Response Plan. Therefore, it may be necessary to prioritize activities and limit the CTCN Response Plan to a set of priority activities commonly agreed with the Proponent and the NDE to remain under this value. Under section 4 of the Response Plan template, an indicative activity based budget should be presented. The proposed budget is indicative and should present an estimated costing range per activity, output as well as a total costing range for the delivery of the Response Plan. Once the Response Plan is finalised and published for tendering, interested parties will provide competitive offer against the indicative budget.

CTCN activities and outputs should be linkable to monitoring and evaluation indicators: All proposed activities and outputs must be linkable to monitoring and evaluation indicators that are specific, measurable, achievable, relevant, and time-bound. The monitoring and evaluation process and corresponding indicators will be developed by the Lead Implementer as part of the work plan and will allow the CTCN technology Manager to monitor the timeliness and appropriateness of the implementation.

Synergies with existing efforts: The Response Plan should focus on activities that are not already being fully supported or that are in the process of being fully supported by another national, regional or international organization. Synergies and complementarity also require that the CTCN assistance is not duplicating past activities. It is possible in the Response Plan to indicate co-financing from the government, the Proponent or another stakeholder, that will maximize the effectiveness of the CTCN assistance.

Gender mainstreaming: The CTCN mission is to build or strengthen developing countries' capacities to identify technology needs, to facilitate the preparation and implementation of technology projects and strategies taking into account gender considerations. The Response Plan must therefore describe how gender considerations will be included and monitored within the proposed activities, and any gender co-benefits that will be gained as a result of implementing the CTCN technical assistance.