

**Guidelines:**

- This Request Submission Form should be completed by the organisation requesting technical assistance from the Climate Technology Centre & Network (CTCN) in collaboration with the National Designated Entity (NDE) of the country in question
- The Form must be signed by the NDE. Please see updated contact list of NDEs here: <http://unfccc.int/ttclear/support/national-designated-entity.html>
- The Form can be submitted as a Word file containing a digital signature or as a signed and scanned PDF file in combination with an un-signed Word file
- For requests submitted by multiple countries, all the NDEs of the respective countries shall sign identical Forms before official submission to the CTCN
- NDEs have the opportunity to submit CTCN requests in collaboration with National Designated Authorities (NDAs) for the Green Climate Fund (GCF) if targeting the GCF Readiness Programme.

<b>Requesting country or countries:</b>	Panama
<b>Request title:</b>	Formulating and submitting a multi country request to the GCF readiness to update the Technology Needs Assessment (TNA) of Panama
<b>NDE</b>	Ministerio de Ambiente Ligia Castro Directora de Cambio Climático <a href="mailto:icastrod@miambiente.gob.pa">icastrod@miambiente.gob.pa</a> Edificio 804 Calle Broberg Panamá, C0843-00793
<b>Request Applicant: NDA</b>	Ministerio de Ambiente Ligia Castro Directora de Cambio Climático <a href="mailto:icastrod@miambiente.gob.pa">icastrod@miambiente.gob.pa</a> Edificio 804 Calle Broberg Panamá, C0843-00793

**Climate objective:**

- Adaptation to climate change
- Mitigation of climate change
- Combination of adaptation and mitigation of climate change

**Geographical scope:**

- Community level
- Sub-national
- National
- Multi-country

If the request is at a sub-national or multi-country level, please describe specific geographical areas (provinces, states, countries, regions, etc.).

**Problem statement related to climate change** (up to one page):

This section should answer the question “what is the problem?” Please summarise the problem related to climate change and/or the negative impacts of climate change in the country that the request aims to address.

Understanding climate technology needs is the starting point for effective action on climate change. By understanding these needs the country can determine how to reduce greenhouse gas emissions and adapt to the adverse impacts of climate change. To determine their climate technology priorities, countries undertake technology needs assessments (TNAs). A TNA supports national sustainable development, builds national capacity and facilitates the implementation of prioritized climate technologies.

Implementing climate technology projects is a desire of all countries, but it is often also a challenge. On the one hand, countries often find it difficult to determine which climate technologies they should prioritize for implementation. On the other hand, once they have prioritized climate technologies, they also have to achieve implementation.

**Past and on-going efforts to address the problem** (up to half a page):

This section should answer the question “what has been done or is currently being done to address the problem?” Please describe past and on-going processes, projects or initiatives implemented in the country or region to tackle the climate problem as described above.

GEF programme with UNEP CCC: updating TNAs of 17 countries.

**Specific technology<sup>1</sup> barriers** (up to one page):

This section should answer the questions “what are the technology barriers that hinder national efforts described above” and “how will the CTCN technical assistance complement these efforts?” Building upon the problem statement and taking into consideration the existing efforts described above, please describe the specific technology barriers encountered by the requesting applicant to identify, assess or deploy climate technology(ies) in an effort to address the problem statement. The described barriers should be within the scope of the requested CTCN technical assistance (described in the section below).

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<sup>1</sup> “any equipment, techniques, practical knowledge and skills needed for reducing greenhouse gas emissions and adapting to climate change” (Special Report on Technology Transfer, IPCC, 2000)

**Sectors:**

Please indicate the main sectors related to the request: PLEASE CLARIFY WHICH SECTOR SHOULD BE COVERED AS PART OF YOUR UPDATED TNA.

- |   |   |                                       |  |
|---|---|---------------------------------------|--|
| <input checked="" type="checkbox"/> Coastal zones     | <input type="checkbox"/> Early Warning and Environmental Assessment | <input type="checkbox"/> Human Health | <input type="checkbox"/> Infrastructure and Urban planning |
| <input type="checkbox"/> Marine and Fisheries         | <input type="checkbox"/> Water                                      | <input type="checkbox"/> Agriculture  | <input type="checkbox"/> Carbon fixation                   |
| <input checked="" type="checkbox"/> Energy Efficiency | <input checked="" type="checkbox"/> Forestry                        | <input type="checkbox"/> Industry     | <input checked="" type="checkbox"/> Renewable energy       |
| <input type="checkbox"/> Transport                    | <input type="checkbox"/> Waste management                           |                                       |  |

Please add other relevant sectors:

**Cross-sectoral enablers and approaches:**

Please indicate the main cross-sectoral enablers and approaches

- |  |   |   |  |
|--|---|---|--|
| <input type="checkbox"/> Communication and awareness | <input checked="" type="checkbox"/> Economics and financial decision-making | <input checked="" type="checkbox"/> Governance and planning | <input type="checkbox"/> Community based |
| <input type="checkbox"/> Disaster risk reduction     | <input type="checkbox"/> Ecosystems and biodiversity                        | <input type="checkbox"/> Gender                             |  |

**Technical assistance requested (up to one page):**

Founded on the problem statement, past/on-going efforts and technology barriers, please describe the requested technical assistance. The technical assistance should clearly contribute to mitigation or adaptation to climate change as described in the problem statement and contribute to overcome the specific technology barriers.

Within a clearly defined scope, the description of technical assistance should be structured into the following:

- Overall objective
- Anticipated groups of activities to be performed by the technical assistance
- Anticipated products to be delivered by the technical assistance.

Please note that the CTCN facilitates technical assistance and is not a project financing mechanism.

The goal of a TNA is to identify technologies for mitigation and adaptation that also support a country's development objectives. To achieve this goal, the TNA process contains the following key steps:

- (a) To identify key priorities, based on a country's long term vision of climate and low carbon development;
- (b) To identify strategic sectors or areas to support these priorities;
- (c) To prioritize technologies for mitigation and adaptation within the prioritized sectors;
- (d) To identify barriers to, and enabling frameworks for, low carbon development and transfer of these technologies;
- (e) To formulate technology action plans (TAPs) for projects, programmes or strategies;
- (f) To prepare specific project ideas for each prioritized sector.

**Expected timeframe:**

Please indicate the expected duration period for the requested technical assistance. Please note CTCN technical assistance is limited to a maximum duration of 12 months.

The formulation and submission of a multi country readiness project may take between 18-24 months.

**Anticipated gender and other co-benefits from the technical assistance:**

Please describe the activities with gender linkages as well as the anticipated gender and other co-benefits (e.g. biodiversity, economic, social, cultural, etc.) that are likely to be generated as a result of the technical assistance.

For more information you can find guidelines on the CTCN's website here:

<https://www.ctc-n.org/technologies/ctcn-gender-mainstreaming-tool-response-plan-development>

Further reading on gender can be found on the CTCN website here:

<https://www.ctc-n.org/technology-sectors/gender>

Effective mainstreaming of gender issues into climate change mitigation and adaptation requires planning and resources to ensure that general principles are translated into action.

Women's unequal participation in decision-making processes and labour markets compound inequalities and often prevent them from contributing fully to climate-related planning, policy-making and implementation. Nonetheless women can significantly contribute to combating climate change as knowledgeable leaders of climate change adaptation and mitigation initiatives just as much as men can (GCF 2018). As it is, women can (and do) play a critical role in responding to climate change due to their local knowledge and leadership of, for example, sustainable resource management and/or sustainable practices at the household and community levels. Women also play key roles in promoting new technologies and facilitate their implementation. Because women are agents of transformation at societal level, their participation at the political level has, therefore, resulted in greater responsiveness to citizen's needs in climate change adaptation and mitigation solutions. More locally, women's inclusion in leadership roles has led to improved outcomes for climate-related projects and policies. Indeed, if policies or projects are implemented without women's meaningful participation, existing inequalities may be increased and effectiveness decline.

**Key stakeholders:**

Please list the stakeholders who will be involved in the implementation of the requested CTCN technical assistance and describe their role during the implementation (for example, government agencies and ministries, academic institutions and universities, private sector, community

organizations, civil society, etc.).

Stakeholders	Role to support the implementation of the technical assistance
National Designated Entity	Ministry of Environment
NDA	Ministry of Environment
Please add at least the ministries in charge of the sectors that your country would like to include in the TNAs	National Secretariat of Energy Ministry of Agricultural Development Ministry of Health Ministry of Housing and Territorial Planning
Women constituency	Ministry of Women
Private Sector	
Academia	

**Alignment with national priorities** (up to 2000 characters including spaces):

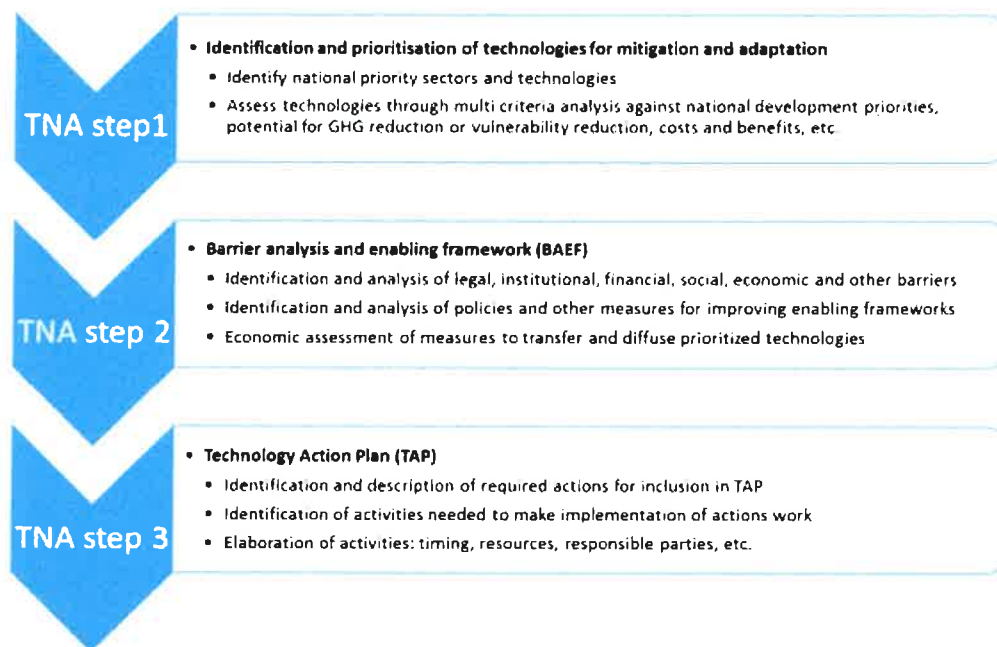
Please describe how the technical assistance is consistent with national climate priorities such as: Nationally Determined Contribution, national development plans, poverty reduction plans, technology needs assessments, Low Emission Development Strategies, Nationally Appropriate Mitigation Actions, Technology Action Plans, National Adaptation Plans, sectorial strategies and plans, etc.

Commitments to promote technology transfer to developing countries have been renewed at every COP to the Convention.

A TNA process usually takes between 18 and 24 months, and is organized around three main steps and deliverables with three main objectives:

- (a) To identify and prioritise mitigation and adaptation technologies for selected sectors;
- (b) To identify, analyse and address barriers hindering the deployment and diffusion of the prioritised technologies including enabling the framework for the said technologies;
- (c) To articulate, based on the inputs obtained from the two previous steps, a TAP, which is a medium/long term plan for increasing the uptake of identified technologies. The plan outlines actions to be undertaken to enhance the uptake, which are further elaborated as project concept notes.

### Key steps and components of the TNA process



<b>Reference document</b> (please include date of document)	<b>Extract</b> (please include chapter, page number, etc.).
Nationally Determined Contribution (NDC)	Direct alignment and contribution to NDC implementation is required for all CTCN technical assistances. Please include a direct reference to the INDC/NDC document (chapter, page number, etc.). The identified sectors for this first stage include the most considerable mitigation potential according to the last GHG national inventory: Energy and LULUCF. The update of the TNA will help to accomplish the reduction established in the goals for these sectors. According to Panama's NDC, it is necessary to implement new technologies and innovate, educate, and empower the youth and women to sustain future investments (page 44).
Technology Needs Assessment	The first TNA was published in 2016; since then, it has not been updated.
National Adaptation Plans	
Nationally Appropriate Mitigation Actions	
Add others here as relevant	

#### Development of the request (up to 2000 characters including spaces):

Please describe how the request was developed at the national level and the process used by the NDE to approve the request before submitting it (who initiated the process, who were the stakeholders involved and what were their roles?) and describe any consultations or other meetings that took place to develop and select this request, etc.

This request has been discussed with the CTCN during the ACW in 2023 in Nairobi, Kenya.

Followed discussion with the NDA of the country to ensure the endorsement of this request to use GCF Readiness Funds to update the TNA of the country.  
Endorsement is ensured through the signature of this request by the NDA and NDE of the country.

**Background documents and other information relevant for the request:**

- Please list all relevant documents that will help the CTCN analyse the context of the request and national priorities. Please note that all documents listed/provided should be mentioned in this request in the relevant section(s), and that their linkages with the request should be clearly indicated. For each document, please provide web-links (if available) or attach to the submission form. Please add any other relevant information as required.
- Please indicate if this request has been developed with the support of the CTCN Request Incubator.

**OPTIONAL: Linkages to Green Climate Fund Readiness and Preparatory Support**

The CTCN is collaborating with the GCF in order to facilitate access to environmentally sound technologies that address climate change and its effects, including through the provision of readiness and preparatory support delivered directly to countries through their GCF NDA. These actions are in line with the guidance of the GCF Board (Decision B.14/02) and the UNFCCC, particularly paragraphs 4 and 7 of 14/CP.22 that addresses Linkages between the Technology and the Financial Mechanisms<sup>2</sup>.

The CTCN is therefore implementing some of its technical assistance using GCF readiness funds accessed via the country's NDA. Any application for GCF support, including the amount of support provided, is subject to the terms and conditions of the GCF and should be developed in conjunction with the NDA.

Please indicate whether this request has been identified as preliminarily eligible by the NDA to be considered for readiness support from the GCF.

**Initial engagement:** The GCF NDA of the requesting country has been engaged in the design of this request and the NDA will be involved in the further process leading to an official agreement for accessing GCF readiness support.

**Advanced engagement (preferred):** The GCF NDA of the requesting country has been directly involved in the design of this request and is a co-signer of this request, the signature indicating provisional agreement to use readiness national funds to support the implementation of the technical assistance.

NDA name: Mrs. Ligia Castro de Doens

Date: 21/12/2023

Signature:

<sup>2</sup> Please see:

[https://unfccc.int/files/meetings/marrakech\\_nov\\_2016/application/pdf/auv\\_cop22\\_i8b\\_tm\\_fm.pdf](https://unfccc.int/files/meetings/marrakech_nov_2016/application/pdf/auv_cop22_i8b_tm_fm.pdf)

**Monitoring and impact of the assistance:**

By signing this request, I affirm that processes are in place in the country to monitor and evaluate the technical assistance provided by the CTCN. I understand that these processes will be explicitly identified in the CTCN Response Plan and that they will be used in the country to monitor the implementation of the technical assistance following standard CTCN procedures.

I understand that, after the completion of the requested assistance, I shall support CTCN efforts to measure the success and effects of the support provided, including its short, medium and long-term impacts in the country.

**Signature:**

NDE name: Mrs. Ligia Castro de Doens

Date: 21/12/2023

Signature:



THE COMPLETED FORM SHALL BE SENT TO THE [CTCN@UNEP.ORG](mailto:CTCN@UNEP.ORG)

The CTCN is available to answer all questions and provide guidance on the application process.