

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.

Requesting country or countries:	Republic of Equatorial Guinea
Request title:	<i>Technology needs assessment (TNA) and technology action plan (TAP) to implement NDC</i>
NDE	Santiago Francisco ENGONGA OSONO <i>National designated entity for climate technology transfer / CTCN focal point</i> +240 222 273 970 <i>E-mail: engongaosono@yahoo.fr</i> <i>Malabo</i>
Request Applicant:	Direction Générale d'Environnement Gabriel NGUA AYECA +240 222 270 560 <i>E-mail: gnguaayecaba@gmail.com</i> <i>Malabo</i>

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.

Equatorial Guinea is planning to conduct a technology needs assessment (TNA) and a technology action plan (TAP) for the purpose of implementing its NDC. The country had not begun the assessment process prior to preparation of its nationally determined contribution (NDC), since the assessment is one of the new operational requirements for expediting NDC implementation. Climate change policies and instruments have changed, especially with the coming into effect of the Paris Agreement, since which time the requirements for implementing developed countries’ commitments to supporting developing countries have been strengthened.

After the Paris Agreement the technology mechanism was established for technology research, development and demonstration together with appropriate capacity-building and technology deployment. Thus a developing state’s technology needs assessment (TNA) has become a prerequisite for the planning and action needed to meet the NDC targets.

Since it is not eligible for UNEP support to conduct this assessment, Equatorial Guinea is requesting technical assistance from the CTCN. This technical assistance is to be funded by using part of the Readiness Programme funds from the Green Climate Fund. Transition to low-carbon development means adopting appropriate technologies, which are generally lacking in developing countries; a comprehensive assessment of technical and technology needs appears urgent in order to align Equatorial Guinea’s development vision with its commitments under the NDC.

Past and ongoing 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.

Technical and technology capacity-building actions have been initiated for implementation of the NDC, but they are not part of nationwide action or planning. Thus provision of a technology action plan (TAP) will help to better assess the cost of implementing the country’s NDC and also to achieve its ambition of reducing and/or mitigating its emissions.

Specific technology⁹ 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).

Equatorial Guinea has no university training centres specific to renewable energies; however, the National University of Equatorial Guinea has an environmental science faculty where students can learn

⁹ “**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)

about renewable energy among other academic subjects. There is little or no provision of technical and technological back-up for other sectors covered by the NDC (agriculture, forestry, waste, transport, etc.). Thus the detailed technology needs assessment for implementing and monitoring the NDC calls for specific expertise. This explains the recourse to CTCN technical assistance in connection with UNFCCC guidelines for the TNA process.

Sectors:

Please indicate the main sectors related to the request:

- | | | | |
|---|---|---|--|
| <input 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 checked="" type="checkbox"/> Agriculture | <input checked="" type="checkbox"/> Carbon fixation |
| <input checked="" type="checkbox"/> Energy Efficiency | <input checked="" type="checkbox"/> Forestry | <input checked="" type="checkbox"/> Industry | <input checked="" type="checkbox"/> Renewable energy |
| <input checked="" type="checkbox"/> Transport | <input checked="" type="checkbox"/> Waste management | | |

Please add other relevant sectors:

Cross-sectoral enablers and approaches:

Please indicate the main cross-sectoral enablers and approaches

- | | | | |
|---|---|---|--|
| <input checked="" 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 checked="" type="checkbox"/> Ecosystems and biodiversity | <input checked="" type="checkbox"/> Gender | |

Technical assistance requested (up to one page):

1. Problem statement

When putting the Paris Agreement into effect, the country Parties have a choice of methods and approaches for implementing their nationally determined contributions (NDCs). They must be able to meet their commitments and thus play their part in the global challenge of reducing greenhouse gas emissions and therefore helping to adapt to the effects of climate change. Developing countries, particularly those in the Central African Forestry Commission (COMIFAC), are looking for ways of both accelerating their low-carbon development and defining strategies for this purpose. Most of the Parties in the COMIFAC region thus wish to begin implementing their NDCs with a clear understanding of the key sectors to be prioritized and the technical, technological and financial resources required to this end. A needs assessment is therefore necessary if they are to plan their action more effectively.

2. Past/ongoing efforts

The Government of the Republic of Equatorial Guinea ratified the Paris Agreement on 16 July 2018. The country thus wishes to acquire the means to drive forward its fight against climate change. The question of technology is crucial to effectiveness. The effective and efficient technologies needed for implementation and monitoring of its NDC ought therefore to be identified.

Equatorial Guinea has undertaken a range of actions under the UNFCCC, including finalization of the First National Communication, preparation of the first biennial report, drafting of the national REDD+ strategy, the National Adaptation Plan, the REDD+ National Investment Plan, and the Green Climate Fund country programme. The action taken aims to address problems in various fields such as water, energy, agriculture, forestry, waste, transport, the coastal area, biodiversity and other vulnerable ecosystems. Despite the fact that Equatorial Guinea's contribution to global greenhouse gas (GHG) emissions is minimal, its role in addressing climate change, mainly through REDD+, as a member of the international community has often been emphasized with due weight given to its mitigation work in sectors such as forestry.

Furthermore, the country is facing a skills shortage in various climate-related fields such as mitigation, adaptation, technology transfer support and climate funding. It clearly follows that a package of appropriate measures must be taken with regard to technical, technological and institutional capacity-building as well as technology transfer in order to address the country's needs more effectively.

3. Requested technical assistance

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.

3.1 Overall objective

Supervised and nationally coordinated by Equatorial Guinea's NDE, the international technical assistance requested from the CTCN will enable the country to assess its technology needs and develop its technology action plan (TAP).

3.2 Anticipated groups of activities

The main activities to be covered by the technical assistance will be:

- i. Supporting introduction of coordination for the TNA/TAP process with the NDE;
- ii. Taking stock of existing low-carbon technologies in Equatorial Guinea;
- iii. Undertaking comprehensive identification of technical and technology needs by NDC sector;
- iv. Identifying technical capacity-building needs for deployment of these technologies;
- v. Implementing the Equatorial Guinea technology action plan in cooperation with all stakeholders.

3.3. Anticipated products to be delivered by the technical assistance

The technical assistance should result in a comprehensive technology needs assessment and a technology action plan to speed up implementation of climate action in alignment with the NDC priorities, the SDGs and the country's 2035 goals.

Given the regional nature of this request, a TNA general coordination unit will be hosted by COMIFAC.

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.

Technical assistance is expected to cover a minimum period of 12 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.

A TNA and high-quality TAP will enable Equatorial Guinea to:

- i. Identify relevant technologies for developing NDC projects in alignment with GCF requirements and the GCF country programme;
- ii. Improve institutional processes, policies and regulations for deployment of climate technologies to implement the NDC;
- iii. Develop gender-responsive low-carbon projects and programmes taking account of the private sector;
- iv. Develop a roadmap and sector-specific action plans;
- v. Generate ambitious requests for the CTCN addressing national priorities in terms of climate technology and eligible for climate funding from both international institutions and private donors.

The request's outputs will help to implement a low-carbon, climate-resilient, national sustainable development strategy effectively and efficiently in Equatorial Guinea. The country wishes, through the TNA/TAP, to have a portfolio of bankable projects. This will enable it to define approaches for engaging the private sector more, accelerating integration of women as key players in change and thus meeting its targets.

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	Preparation of request, coordination for TNA and for TAP implementation
Request Applicant	Environment Department, Ministry of Agriculture, Livestock, Forestry and the Environment, Republic of Equatorial Guinea
Ministry of Agriculture, Livestock, Forestry and the Environment and related institutions (National Institute of Forest Development (INDEFOR) and National Institute for Conservation of the Environment (INCOMA))	<ul style="list-style-type: none"> - Guidance on technical and technological needs in the fields of environment, climate monitoring, NDC implementation and waste management; - Guidance on technical and technological needs in the field of forest management; - Guidance on technical and technological needs in the fields of agriculture and rural development.
Ministry of Industry and Energy	Guidance on technical and technological needs in the fields of industry and energy

Ministry of Transport, Postal Services and Telecommunications	Guidance on technical and technological needs in the meteorological field
Ministry of Fisheries and Water Resources	Guidance on technical and technological needs in the water management field
Scientific and Technological Research Council (CICTE)	<ul style="list-style-type: none"> - Guidance on technical and technological needs in the fields of innovation and scientific research; - Assistance with preparation of the TNA, particularly through an inventory of local technologies in Equatorial Guinea; selection of foreign technologies likely to contribute effectively to the country's development.
Green Climate Fund NDA	GCF endorsement of request
Central African Forestry Commission (COMIFAC)	Administrative coordination at the regional level

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.

As a party to the UNFCCC, the Republic of Equatorial Guinea intends to conduct this TNA as part of ongoing implementation of the framework for meaningful and effective actions to enhance implementation of Article 4, paragraph 5, of the Convention as adopted by Decision 4/CP.7 and enhanced by Decision 3/CP.13. We also consider the TNA to be a tool for understanding the projects needed to achieve national development ambitions in connection with implementing the NDC.

The TNA and TAP are considered key tools for implementing the country's climate change commitments. They tackle the technological challenges raised by global warming by offering solutions tailored to the local context. The country's various national programmes and strategies (NAPA, REDD+ National Strategy and Investment Plan, etc.) particularly emphasize the need for innovative technological solutions in order to meet climate change challenges by establishing a basis for technology transfer.

Reference document <i>(please include date of document)</i>	Extract <i>(please include chapter, page number, etc.)</i>
Nationally Determined Contribution (NDC)	Direct alignment and contribution to NDC implementation is required for all CTCN technical assistance.
REDD+ National Strategy	Adoption of low-impact technologies for logging in order to reduce associated degradation is a priority for the Equatorial Guinea REDD+
Other reference documents, as relevant	National adaptation programme of action (NAPA)

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 developed for the purpose of making an assessment of priority technology needs and harmonizing the country's development towards a low-carbon economy. While the national stakeholders wish to conduct a TNA, the country wants its TNA/TAP to meet the enhanced TNA/TAP standards developed by countries since 2009 under the GEF's Poznan Strategic Programme on Technology Transfer. The stakeholders acknowledge the additional need for skills and capabilities to carry out this process.

The Republic of Equatorial Guinea is thus requesting CTCN technical assistance to guide and support the national TNA/TAP process to ensure the expected outputs. The CTCN will use the resources allocated to Equatorial Guinea by the GCF in its Readiness Programme budget.

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 Mechanisms¹⁰.

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.

¹⁰ Please see:

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.

Date: 19 June 2019

Signature:

THE COMPLETED FORM SHALL BE SENT TO THE CTCN@UNEP.ORG

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