

Please fill in the form in the grey spaces, by following the instructions in italic.

Requesting country:	<i>Antigua and Barbuda</i>
----------------------------	----------------------------

Request title:	<i>Technical Assistance for the Implementation of Projects related to the Establishment of a Sustainable Financial Mechanism for Climate Change in Antigua and Barbuda</i>
-----------------------	--

Contact information:

{Please fill in the table below with the requested information. The request proponent is the organization that the request originates from, if different from the National Designated Entity (NDE).}

	National Designated Entity	Request Applicant
Contact person:	<i>Diann Black-Layne</i>	<i>Diann Black-Layne</i>
Position:	<i>Chief Environment Officer</i>	<i>Chief Environment Officer</i>
Organization:	<i>Environment Division</i>	<i>Environment Division</i>
Phone:	<i>1.268.464.6410</i>	<i>1.268.464.6410</i>
Fax:	<i>1.268.462.4625</i>	<i>1.268.462.4625</i>
Email:	<i>dcblack11@gmail.com</i>	<i>dcblack11@gmail.com</i>
Postal address:	<i>Botanical Gardens, PO Box 693</i>	<i>Botanical Gardens, PO Box 693</i>

Technology Needs Assessment (TNA):

{Select one of the three boxes below:}

- The requesting country has conducted a TNA in (please insert date of TNA completion)*
- The requesting country is currently conducting a TNA*
- The requesting country has never conducted a TNA*

{If the requesting country has completed a TNA, please indicate what climate technology priority this request directly relates to. Please indicate reference in TNA/TAP/Project Ideas.}

Geographical focus:

{Select below the most relevant geographical level for this request:}

- Community-based*
- Sub-national*
- National*
- Multi-country*

{If the request is related to the sub-national or multi-country level, please indicate here the areas concerned (provinces, states, countries, regions, etc.)}

Theme:

{Select below the most relevant theme(s) for this request:}

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

Sectors:

Institutional Design, Energy and Cross sectorial

Problem statement *(up to one page):*

{Please describe here the difficulties and specific gaps of the country in relation to climate change, for which the country is seeking support from the CTCN. Please only provide information directly relevant to this request, and that justifies the need for CTCN technical assistance.}

In Antigua and Barbuda the impacts of climate change are already being felt and are impacting the ability of Government and consumers to cope with the associated cost. Responding to Climate Change has increased the County's national debt and created high cost of living. This financial burden is being borne by the Government as well as consumers and sadly only a few hundred thousand dollars per year of Climate Finance (mainly for enabling activities) is getting into Antigua and Barbuda. The country is however spending Millions on adaptation.

At the current state of UNFCCC negotiations and based on the science available it is prudent for Antigua and Barbuda to use the recent World Banks' Climate and IPCC reports, to plan its financial future. These reports indicate that we may need to prepare for a 4 degree world. In that regard, Antigua and Barbuda will be designing a financial strategy to assist the country to adapt to this level of temperature rise. The hope of the country is that we would only experience a 1.5-degree world but we would prepare for the worst.

At the current level of spending on Climate change, the economic and financial status of the country is not good. The current financing needs for adaptation are not being met, and the most recent IMF report on Antigua and Barbuda indicates that without some intervention the future spending on adaptation will not be met either.

Antigua and Barbuda has therefore taken a policy decision to use scarce Climate Finance, i.e grant and concessional loans, to invest into renewable energy. The proceeds of these investments will be channelled through a National Environmental Fund, the Sustainable Island Resource Framework Fund (SIRF Fund) to pay for the Cost of Adaptation. The Government will allocate a portion of the electricity needs of the country to the Fund and the rest will be available to the private sector (See SPPARE project document <http://www.environmentdivision.info/news.php/news/135/group/16>).

The Legislation to form the SIRF Fund is currently before the Parliament and with its passage the framework for the operation of the Fund will be in place. The Country has applied to the GEF for funding from GEF 5 to provide the initial investments the fund needs to begin earning an income. So far there are four projects that will all go towards the investment of the fund. These are the GEF, SPPare, The GEF SCCF

<http://www.environmentdivision.info/news.php/news/136/group/16> and the GEF IWeco, and the GEF SEEC projects. To gather they total over 9M USD. The Government is seeking to access 15M of IRENA funding to fund the upscaling of the investments (GEF projects will provide the baseline and strategy for upscaling).

The projects will begin the first quarter of 2015 and Antigua and Barbuda is requesting assistance from CTCN in the following areas:

1. Provide advice on the Renewable Energy Technology options/mix from the purpose of the business strategy of the SIRF Fund. The choice of technologies will depend on the economic and environmental risk conditions of the islands. Antigua and Barbuda experiences frequent extreme weather events (Hurricanes and droughts) and as well as power outages. The Country therefore needs a mix of on and off grid solutions (Component 3 of the SPPare project)
2. The design of the small Carbon Sinks in the Water shed areas (Component 4 of the GEF SPPare project);
3. Additional detailed Wind studies around the island (needed for the GEF SPPare project to advise on upscaling program);
4. Capacity building by the Institutionalization of training in the maintenance of renewable energy technologies. Further to assist in the development of training modules for the staff of the Division as well as other agencies and private sector in including energy efficiency and adaptation measures in buildings (GEF ESD Project as well as the Environment Division Legislation <http://www.environmentdivision.info/news.php/news/132/group/14>);

Past and ongoing efforts (*up to half a page*):

{Please describe here past and on-going processes, projects and initiatives implemented in the country to tackle the difficulties and gaps explained above. Explain why CTCN technical assistance is needed to complement these efforts, and how the assistance can link or build on this previous work.}

1. There has been some work by GIZ to advise on renewable energy. That study focused mainly on wind. Other advice is being provided by political advisors, private section and of course the utility Company. In addition the country has had several proposals far for solar, wind and waste. The government thinks that it can benefit from an independent source of information that will provide an objective view on which technology mix (off and on grid) that is best for the Government as well as which will make the best business sense for the SIRF fund. This activity will need to be conducted as soon as possible in 2015. This will greatly assist the project also in procurement.
2. The forest/watershed areas for Antigua and Barbuda are very small but the Government is considering the use of this as a micro Carbon sink. The use of these areas will be mostly relevant for ecosystems services that this brings but the value as a Carbon sink and as a ecosystem based approach to flood prevention as well as to increase access to portable water. Not much work has been done in this area and the SPPARE component 4 and the SCCF (an adaptation project) will seek to begin this work in the Country. The Government will need general advice on how to approach this work and to accurately map the carbon sink potential and GHG reduction avoided or sequestered. This activity could be done in 2016 – 2017.
3. The SPPARE project will require that more extensive wind studies are conducted to facilitate the upscaling of the investments initiated by the project. As in (1) above some wind studies

were conducted but there is a need to have more island wide studies. We are requesting from CTCN to source the equipment to do this work as well as technical assistance to conduct the studies. This activity will be required in 2015 and 2016.

4. There are several initiatives to institutionalize the training in the maintenance of RE technologies. These are the ESD and the SPPare projects. The budget for these however is very small and there is a need for cofinancing. The studies here should focus on a range of client targets. These are persons in the Government responsible for building maintenance, electricians, even farmers who may want to place wind turbines on their farms. We would like to make it easy to understand and be available to all who are interested and therefore the design of the program and its related cost to the clients is something to be carefully considered.

Antigua and Barbuda is also getting assistance from IRENA for a grid stability study as well as a Renewable Energy Readiness Assessment (RRA). We would also appreciate if CTCN can work along with the Environment Department to make a valuable contribution to this process.

Assistance requested (up to one page):

{Please describe here the scope and nature of the technical assistance requested from the CTCN and how this could help address the problem stated above and add value vis-à-vis the past and on-going efforts. Please note that the CTCN facilitates technical assistance and is not a project financing mechanism.}

- We are requesting general technical assistance in the areas identified above. The CTCN can assist us to provide the broadest possible information and considerations in the selection and management of technology that will suit our national conditions and the objectives of the project. This input should be objective and truly reflect what is best for the country and not the profit goals of the private sector.
- The wind study will assist us to identify additional areas possible for present and future wind turbines which may provide ideal sites for smaller wind turbines.
- The country has received dozens of proposals for renewable energy and it is very difficult to analyze what is best. These activities will also assist us in making good decisions.
- This assistance will also provide us with a solid basis for the INDC for Antigua and Barbuda.

Expected benefits (up to half a page):

{Please outline here the medium and long-term impacts that will result from the CTCN technical assistance, including how the assistance will contribute to mitigate and/or adapt to climate change.}

The CTCN interventions will provide much needed assistance in the implementation of the projects that are soon to be initiated. This information will add to the quality of project decisions and outputs. This interaction with the CTCN will also build the capacity of the Division to design and implement future projects and programs. This will also have impact on the preparation of the Country's INDC for the UNFCCC 2015 agreement.

A key benefit is that there are limited amounts of professionals within the region on renewable energy i.e. for all technologies and can assess a detailed energy mix. This is particularly true for Antigua and

Barbuda. The project cannot therefore afford to bring to the country the level needed with the budget allocated. The interaction with the CTCN will assist us to access the expertise we need as a reasonable cost. The technical assistance program with the CTCN will be implemented so that the capacity of the Country will be built at the same time.

Post-technical assistance plans (up to half a page):

{Please describe here how the results of the CTCN technical assistance will be concretely used by the applicant and national stakeholders, to pursue their efforts of resolving the problems stated above after the completion of the CTCN intervention (list specific follow-up actions that will be undertaken).}

After the assistance is provided, the capacity will remain within Antigua and Barbuda particular within the Environment Division. The Division is responsible for the reporting and other function to the Convention. The lessons learnt will be incorporated within the work program of the Division and further into the legislation.

Key stakeholders:

{Please list in the table below the main stakeholders who will be involved in the implementation of the requested CTCN technical assistance, and what their role will be in supporting the assistance (for example, government agencies and ministries, academic institutions and universities, private sector, community organizations, civil society, etc.). Please indicate what organization(s) will be the main/lead counterpart(s) of CTCN experts at national level, in addition to the NDE.}

Stakeholder	Role to support the implementation of the assistance
<i>NDE, Environment Division (Govt)</i>	<i>Coordination and design;</i>
<i>Antigua Public Utilities Authority (APUA) - statutory Body;</i>	<i>Assist with the implementation of the technical assistance and will benefit by Capacity Building;</i>
<i>Private Sector (Generally small businesses)</i>	<i>Benefit from Capacity building as well as the technical information on Adaptation and Mitigation options available to them.</i>
<i>General Public (capacity building section)</i>	<i>General Capacity building and Knowledge;</i>

Alignment with national priorities (up to half a page):

{Please demonstrate here that the technical assistance requested is consistent with documented national priorities (examples of relevant national priorities include: national development plans, poverty reduction plans, technology needs assessments (TNAs), LEDS, NAMAs, TAPs, NAPs, sectorial strategies and plans, etc.). For each document mentioned, please indicate where the priorities specifically relevant to this request can be found (chapter, page number, etc.).}

National Energy Policy

In 2010, the Government of Antigua and Barbuda adopted its National Energy Policy. It was created based on widespread stakeholder consultation and is the government's premier road map to a sustainable energy future. Two of the goals of this policy are electricity reliability and diversification and efficient use of energy sources.

With regard to electricity reliability the policy intends to strengthen the grid stability to reduce the number and duration of operational disturbances and strengthen the energy infrastructure to enable faster recovery from disruptions to the energy supply.

Component 3 of the SPPare seeks to develop technical capacity and knowledge base to enhance grid interconnection and control. This will be achieved by conducting a study on the ability of the grid to accommodate 25MW of Electricity and the training of relevant staff on software application (SCADA) to manage grid interconnection.

The policy envisaged that among other things, the goal of diversification and efficient use of energy source will be achieved by “developing plans to add utility scaled solar power facilities as an approved renewable energy source to add 15% to the utility supply grid by 2025.” Component 3 of the project will contribute to this goal to install a plant that delivers 2- 8 MWh of utility grade wind and/or solar power energy.

Development of the request (up to half a page):

{Please explain here 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.)}

The request listed here are all part of the relevant GEF projects. These projects were developed over an 18 month period where extensive consultations with all relevant stakeholders. The detailed information on this is contained within respective approved project documents. The activities listed here are those identified within the project annexes that will need additional cofinancing.

Expected timeframe:

24 – 36 months beginning in 2015.

Background documents:

{Please list here relevant documents that will help the CTCN understand the context of the request and national priorities. For each document, provide weblinks if available, to attach to the submission form while submitting the request. Please note that all documents listed/provided should be mentioned in this request in the relevant question(s), and that their linkages with the request should be clearly indicated.}

Documents are:

1. National Energy policy
<http://www.environmentdivision.info/news.php/news/132/group/14;>
2. GEF SPPare project document
<http://www.environmentdivision.info/news.php/news/135/group/16;>
3. GEF ESD project;
4. GEF SCCF (draft project document)

<http://www.environmentdivision.info/news.php/news/136/group/16;>

Monitoring and impact of the assistance:

{Read carefully and tick the boxes below.}

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

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: Environment Division

Date: 4th of February, 2015.

Signature:



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

Need help? The CTCN team is available to answer questions and guide you through the process of submitting a request. The CTCN team welcomes suggestions to improve this form.

>>> Contact the CTCN team at ctcn@unep.org