CTCN Technical Assistance

Request Submission Form

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:	**Syrian Arab Republic**
Request title:	Please reflect the objective of the technical assistance in the title (maximum 200 characters). **TECHNICAL GUIDANCE AND SUPPORT FOR CONDUCTING THE TECHNOLOGY NEEDS ASSESSMENT**
NDE	Please add name of organisation, name of individual, position, email and address. MINISTRY OF LOCAL ADMINISTRATION AND ENVIRONMENT **AMMAR ABBAS** DIRECTOR OF MINISTER's OFFICE. EMAIL ADDRESS: mammarabaas@gmail.com
Request Applicant:	Please add name of organisation, contact person, position, email and address of the organisation requesting assistance from the CTCN. ORGANISATION: MINISTRY OF LOCAL ADMINISTRATION AND ENVIRONMENT CONTACT PERSON: **YARA HAZZORY** EMAIL ADDRESS: yarahazzouri@gmail.com ADDRESS: NFP, UNFCCC

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.

Although the Syrian Arab Republic is not one of the major contributor countries to climate change and greenhouse gas emissions, it is one of the countries highly affected by the global warming and climate change, especially the unprecedented climatic phenomenon, such as precipitation change and rainstorms, drying up of some rivers or dropping water levels of natural and artificial lakes, frequent drought and its increasing risks, unprecedented levels of temperatures, heat waves, forest fires, sand and dust storms, increasing duration and frequency of sand and dust storms, and desertification. The impact of global climate changes with their local impacts on land-use patterns and the accelerating pace of their degradation has put pressure on:

- Natural resources for agriculture and livestock exploitation, and the implications on sustainable production and strengthening communities' resilience.
- Renewable energy resources such as hydropower, due to drop in water levels, and wind power, as a result of climate variability.
- Water resources, which are already limited, especially the suffering from a growing water deficit due to the increasing demand of water for irrigation, drinking and industrial purposes.
- Natural ecosystems and their balance, as well as the overall impact on public health and other economic, production, service and social sectors.

The Syrian Arab Republic was covered with forests and trees for decades ago extended from the Mediterranean to the Syrian Badia, while forests covered 32% of Syrian territories last century, but gradually deteriorated to less than 3% due to the effect of frequent drought spells, wildfires and land degradation, especially agricultural ones, which negatively affect the lives of many people and pose a threat to national food security and quality of life.

The energy sector is facing several challenges, the most important is the improvement of the level of crude oil production, development of power generation capacity, restoration of the transmission and distribution network, financing of existing refineries improvement projects and the construction of new refineries to produce oil products in international specifications, in order to mitigate fuel combustion emissions (gasoline and fuel oil).

Technology is an important aspect to be taken into consideration in climate change both in strengthening mitigation and adaptation measures, and building resilience. In addition to the need for localization of many technologies and software in order to monitor the current situation and to simulate and extrapolate the future, while these tools are important for developing all economic, social and environmental indicators and measuring the level of meeting the needs of management and planning of sustainable development.

Therefore , the absence of comprehensive Technology Needs Assessment (TNA) will increase the difficulties of determining the level and extent of support needed for implementation of the Nationally Determined Contributions (NDCs), national development priorities and Sustainable

Development Goals.

This TNA project proposal is the first for Syria, which will require funds, skills, capacities and the expertise of internationally recognised experts. With this proposal, CTCN is being requested for technical assistance including technical assessments, training and implementation plans to guide Syria in conducting Technology Needs Assessment for Climate change in key sectors of the economy.

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.

The Syrian Arab Republic has acceded to the United Nations Framework Convention on Climate Change (UNFCCC) since 1996, and recognizing the importance of the Kyoto Protocol in reducing greenhouse gas emissions, Syria has acceded to the Protocol and ratified it in 2005.

The Syrian Arab Republic submitted its Initial National Communication on climate change in 2010. In its Initial National Communication, Syria provided information on national circumstances, greenhouse gas inventory and measures to mitigate climate change, vulnerability and adaptation to climate change and other aspects relevant for achieving the objectives of the Convention. The preparing of the second national communication began in 2012 and could not be fulfilled as a result of the freezing of funding by international donors.

In response to its commitments to reduce greenhouse gas emissions and promote adaptation to the impacts of climate change under the United Nations Framework Convention on Climate Change, the Syrian Arab Republic ratified the Paris Climate Change Agreement and made its first Nationally Determined Contributions (INDC) in 2018 towards addressing climate change for 2020-2030, In line with national priorities.

Syria, through the Ministry of Local Administration and Environment, is the National Focal Point to the United Nations Framework Convention on Climate Change. Syria, in collaboration with FAO, is currently working on the process of implementing a project on GCF - readiness in order to be able to access the GCF substantial funds. This project will assist the country in building its national capacity to identify national priorities in its project to mitigate greenhouse gases emissions and to adapt to the impacts of climate change.

The INDCs aim at ensuring more efficient use of available resources, addressing sources of emissions and more reliance on renewable energies, enhancing adaptation to climate change and increasing resilience to impacts by reviewing existing farming systems and activities in changing land use patterns, taking into account food security requirements and other needs of agricultural products and to achieve sustainable agricultural production and environmental conservation.

In all that has been mentioned above, the appropriate technologies will constitute an important and essential solution to the efforts and initiatives that aim to combat the impacts of climate change in Syria.

Specific technology[1] **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).

In fact, the Syrian Arab Republic faces obstacles to obtain advanced technologies that meet all environmental standards in which play a key role in sustaining and strengthening mitigation and adaptation measures, and building resilience. It faces also the lack of specialized skills required in climate technologies. And lack of funding for the transfer or access to environmentally sound technologies, innovations and knowledge.,

In addition, it faces obstacles in the context of implementation the vital projects, including CDM projects, as well as localization of many technologies and software in order to monitor the current situation and to simulate and extrapolate the future, while these tools are important for developing all economic, social and environmental indicators and measuring the level of meeting the needs of management and planning of sustainable development. Not to mention, that these obstacles are mainly due to the unilateral coercive economic measures imposed on Syrian Arab Republic for decades ago, in which increased since 2011, and their serious implications on building an economy able to adapt climate change.

Other barriers include inadequate infrastructural services to ease acquisition of appropriate technologies, lack of market awareness, lack of research and development of green technologies, inadequate incentives and enabling environment for technology transfer. Generally, these barriers affect the development and transfer of climate technologies in Syria .

Sectors:

Please indicate the main sectors related to the request:

☒ Forestry	☒ Agriculture	☒ Water	☒ Health
			☒ Coastal zones
☒ Restoration of degraded landscapes	☒ Infrastructure and urban planning	☒ Early warning systems	☒ Carbon fixation

[1] *"**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)*

and ecosystems

☒ Energy Efficiency	☒ Livestock and Fisheries	☒ Industry	☒ Renewable energy
☒ Transport	☒ Waste management	☒ Disaster risk reduction	☒ Land use and Land use change

Please add other relevant sectors:

Cross-sectoral enablers and approaches:

Please indicate the main cross-sectoral enablers and approaches

☒ Communication and awareness	☒ Economics and financial decision-making	☒ Governance and planning	☒ Community based approaches
☒ Disaster risk reduction	☒ Ecosystems and biodiversity	☒ Gender	

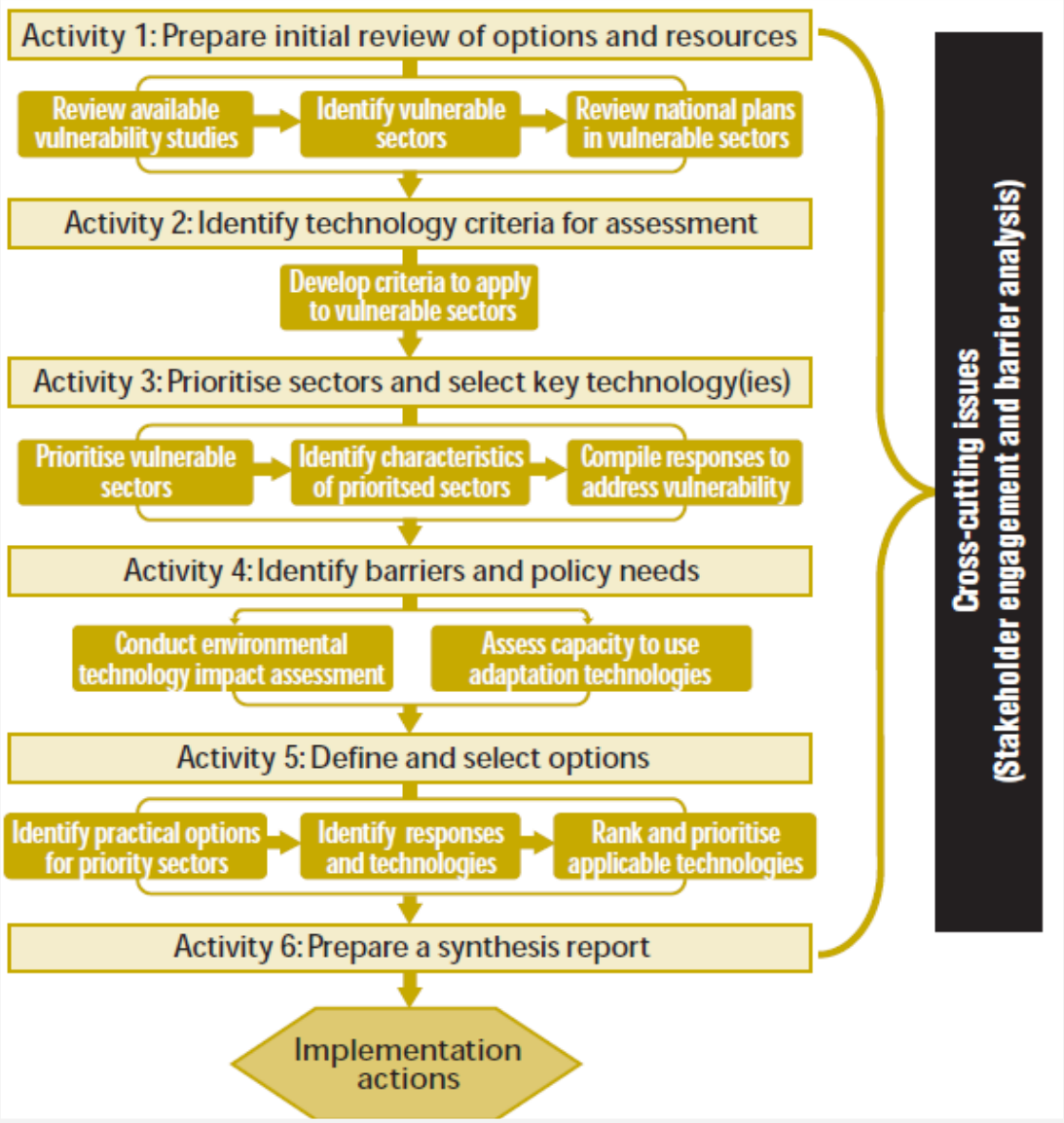
Technical assistance requested (up to one page):

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.

The overall objective is to conduct Technology Needs Assessment for Climate Change Mitigation and Adaptation in Syria in most vulnerable economic sectors as identified in both the country's INC and INDC documents namely Agriculture, Energy, Water, Industry etc. It also seeks technical guidance for the different activities required to conduct the TNA process, including training on the TNA process, methodologies and quality control.

Scope of work includes:

- Organizes all process of technological needs assessment process;
- Conducts desk study on previously conducted similar assessments if any;
- Liaises with relevant state, non-state and private stakeholders and organizes individual interviews or group discussions, site visits, etc. in order to conduct the study of current technological needs;
- Assesses the constraints that hinder institutions responsible for activities related to climate change in terms of technology issues through collection, synthesis and analysis of existing information;
- Conducts desk study on existing state programs and plans on technology transfer and capacity building for activities related to climate change;
- Organizes the process of data collection on financial resources, technology transfer, and technical support received from bilateral and multilateral donors for activities to address climate change, as well as information on national resources allocated for climate change upon ratification of the UNFCCC;
- Provides periodic progress report to the Project Manager on implementation of the activities in regards to needs assessment process;
- Ensure timely and effective management of the activities according to schedule;
- Drafts the national Technology Needs Assessment report for various sectors



Anticipated Products to be delivered by the Technical Assistance:

The output of the support will be the TNA synthesis report, which contain the following elements:

i. Objectives for the TNA in the context of national development priorities
ii. A description of the stakeholder process adopted
iii. An evaluation of sectoral needs and opportunities
iv. A statement of data gaps
v. The criteria and process for technology assessment
vi. Identification and assessment of technology options (including adaptation and mitigation)
vii. A list of priority sectors and key technologies for preliminary action and TAPs for various sectors.
viii. A review of key barriers related to existing plans and programmes and steps to overcome them
ix. Capacity building measures
x. Potential sources of funding
xi. A discussion of implementation plans**.**

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.
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.

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

The anticipated activities with gender linkages as well as gender and other co-benefits from the technical assistance will include:

1. Decision Making:
   Equal participation of men and women in decision-making related to climate technology implementation or use. This will include their involvement in planning and consultation meetings, project planning process, including in climate technology user groups and cooperatives.

2. Capacity Building
   Women and men benefit equitably from technical assistance and project-related training

3. Awareness Raising and Advocacy
   Involvement of climate technology user groups, cooperatives and committees in awareness rising and advocacy in gender responsive manner.

Other anticipated co-benefits that will improve general quality of life include:

- Technology improvement and adoption of technological change,
- Capacity and Skills enhancement
- Increased productivity
- Contributions to energy security
- Business creation
- Reduced vulnerability
- Increased productivity
- Increased resilience

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	Ensure alignment with national priorities on climate change, synergy with applicant's organisation; ensuring adequacy of application and provides endorsement. Monitor and evaluate the technical assistance provided by the CTCN.
Request Applicant	Coordinates implementation of project and ensure synergy and reporting to the UNFCCC Focal Point.
Please add as many stakeholders and lines as required.	Ministry of Local Administration and Environment Ministry of Agriculture, Ministry of Water Resources , Ministry of Electricity, Ministry of Public Works and Housing, Ministry of Industry, Ministry of Transport, Ministry of Petroleum, Ministry of Higher Education, Science and Technology, Each of these national entities will be responsible for informing the international experts about the current technologies being used and will provide sufficient information to enable the experts to determine the best modern techniques that can be used in each of the national sectors.

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.

Reference document (please include date of document)	**Extract** (please include chapter, page number, etc.).
Nationally Determined Contribution (NDC) 2018	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.). This project will contribute to the assessment of technology needs to ensure the effective implementation of Nationally Determined Contribution (NDC) International finance and investment, technology and capacity-building will be needed to achieve the ambitious intended contribution .
Technology Needs Assessment	It is yet to be conducted.

National Adaptation Plans	We have not yet got the support to start our National Adaptation Plan.
Nationally Appropriate Mitigation Actions	Although Syria is yet to prepare its NAMA, the TNA, if conducted, will help in achievement of the mitigation objectives.
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.

The process was initiated by the Department of Climate Change, holding consultations with the climate team and NFP to Green Climate Fund at the Ministry of Local Administration and Environment. Emphasizing the need for the project to ensure the effective implementation of the NDC, it was approved by the Minister of Local Administration and the Environment

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.

Initial National Communication (INC) to UNFCCC 2010

Intended National Determined Contribution (INDC 2018)

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[2].

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The CTCN is therefore implementing some of its technical assistance using GCF readiness

[2] Please see:
https://unfccc.int/files/meetings/marrakech_nov_2016/application/pdf/auv_cop22_i8b_tm_fm.pdf

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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: Hassan Janidan
Date: 31../..3../2019

Signature:

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: Ammar ABBAS
Date: 31../..3../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.