

Requesting country: Armenia

Request title: Guidance and Support for Promotion of Technologies for Climate Change Mitigation and Adaptation

Contact information:

	National Designated Entity	Request Applicant
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Technology Needs Assessment (TNA):

{Select one of the three boxes below:}

- The requesting country has conducted a TNA (Phase II: January 2015 - July 2017)
- The requesting country is currently conducting a TNA
- The requesting country has never conducted a TNA

Project - "Armenia – Country Study on Climate Change. Phase II"

During the first phase of the project "Armenia: Country Study on Climate Change" the first National Communication of the Republic of Armenia on climate change was prepared and presented at the Fourth Conference of the Parties to the UN Framework Convention on Climate Change held in Buenos Aires in 1998.

The objective of UNDP-GEF project "Armenia-country study on climate change. Phase II" was to ensure continuation of activities and further develop and strengthen the national capacity in Armenia for solution of problems related to climate change.

http://unfccc.int/ttclear/misc/_StaticFiles/gnwoerk_static/TNR_CRE/e9067c6e3b97459989b2196f12155ad5/19789a07b4de493cb72e43c47fd4db1e.pdf

CTCN Request Incubator Programme:

{Please indicate if this request was developed with support from the Request Incubator Programme:}

- Yes
- No

Geographical focus:

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

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

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:

Main sectors related to the request: energy, industry, transport, waste, agriculture/fisheries, forestry, water, ecosystem/biodiversity, coastal zones, health, education, tourism, businesses, early warning/disaster reduction, institutional design and mandates, cross-sectorial.

Problem statement *(up to one page):*

Government of the Republic of Armenia sees energy security, sustainable economic development and environment protections as priorities of the country.

Armenia is a landlocked mountainous country with vulnerable ecosystems. Thus, the climate change adaptation and mitigation are among national priorities.

To ensure the wide application of the efficient technologies for climate change mitigation and adaptation, a certain work should be done, which key elements are the estimation of relevance of technologies to the country's needs as well as the identification of the stakeholders and further facilitation of technologies' implementation.

However, the both actions - identification of the most relevant technologies and their promotion among stakeholders - in Armenia became the main weak points of the whole process of transfer of environmentally sound technologies. This is true even for the technologies that were developed in local R&Ds. The main reasons of this problem are the lack of knowledge on existing technologies, lack of experience in identification of stakeholders, preparation of the convincing proposals, and forming the pools /alliances, and other actions necessary for efficient technology transfer.

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

Armenia ratified the UN Framework Convention on Climate Change (UNFCCC) in May 1993, and the Kyoto Protocol in December 2002. In September 2015, Armenia has submitted its new Climate Action Plan to the UN Framework Convention on Climate Change

(UNFCCC).

The Technology Transfer Association (Armenia) was assigned as a National Designated Entity (NDE).

The Association and his Partners are carrying out the estimation and selection of the most promising technologies/solutions for climate change mitigation and adaptation. As a result, a portfolio of promising projects is formed.

For this activity, the Association is collaborating with the National Focal Point of UNFCCC, State Committee of Science of Armenia, National Polytechnic University of Armenia, American University of Armenia, Armenian National Agrarian University.

Assistance requested (*up to one page*):

To ensure a high efficiency of transfer of environmentally sound technologies, a technical assistance of CTCN will be needed for providing:

1. Estimation of relevance of proposed technologies to the country's needs. Identification of the most relevant technologies for the certain cases, e.g. new high-performance materials for buildings thermal insulation; non-energy intensive substitutes of metal reinforcement; energy-saving equipment for production sites/electric lighting; combined energy generators for rural areas, etc. Providing of international experts support for mentioned activities, in case when it will be impossible to do by local experts.
2. Development of the Comprehensive Plan of selected technologies' promotion among local / foreign stakeholders. Support on the implementation stage of the Plan.
3. Provide the tools / trainings on preparation of the convincing proposals to identified stakeholders as well as on legal issues relating to technology transfer.
4. The preparation of the financial model for the ArmCTCN, where will be presented all operational expenditures, and of the legal model, where should be developed the agreements between the technology developers and stakeholders.
5. Guidance and support at the stage of technologies' customization and widespread deployment. Facilitation/promotion to expand the range of partners and stakeholders for technologies implementation/commercialization.

Expected benefits (*up to half a page*):

The guidance and support for promotion of technologies for climate change mitigation and adaptation will ensure for Armenia:

- Formation of the national process of identification / development of technologies most relevant to country's needs - ArmCTCN,
- Strengthening the capacity in development of attractive proposals, in forming the pools /alliances, and in other actions necessary for efficient technology transfer.

And as a result of this:

- Elimination of barriers that hinder the transfer of climate technologies.
- Formation of sustainable innovation platform for environmentally sound technologies, and increase investments in this field. Dissemination of good practice of innovation platform implementation among other interested organizations within CTCN.

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

The guidance and support will lead to formation of ArmCTCN that will ensure the efficient process of technology transfer.

At the same time, the ArmCTCN will be a consortium of local stakeholders, which will complement each other in accelerating the transfer of climate technologies.

This mechanism will facilitate Armenia in achieving the world standards energy efficiency and environment.

Key stakeholders:

Stakeholder	Role to support the implementation of the assistance
Technology Transfer Association (Armenia)	The Association provides comprehensive support to technology developers and stakeholders in all areas of the technology transfer process. Coordination of actions for the identification and implementation of transferred technologies.
National Polytechnic University of Armenia	Providing of the expertise in the field of issues related to Energy efficiency, Renewable energy, Industrial processes, Greenhouse gases and other. Pipelining the technologies for the climate change adaptation and mitigation.
Armenian National Agrarian University	Providing of the expertise in the field of agricultural technologies. Pipelining the technologies for the climate change adaptation and mitigation.
American University of Armenia	Providing of the expertise in the field of technologies acceleration, and in specific fields of engineering. Pipelining the technologies for the climate change adaptation and mitigation.

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

The Government of Republic of Armenia has adopted the National Plan on Energy Efficiency and Renewable Energy (2007). In the focus of the Plan is increasing of energy efficiency in all sectors, and renewable energy deployment.

In September 2015 The Government of Republic of Armenia has approved the Intended Nationally Determined Contributions (**INDC**) of the Republic of Armenia under the UNFCCC (please see in Background documents).

In line with National INDC should be done as follows:

- Established the institutional mechanisms to overcome barriers for the introduction of innovative technologies for climate change mitigation and adaptation, including strengthening the system of legal protection of intellectual property right.
- Ensured an open and transparent system of technology introduction and transfer as a contribution to the INDC, such as through the cooperation and experience exchange

with "Climate Technology Center and Network" (CTCN) and through the establishment of a similar mechanism in the country (ArmCTCN).

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

The request has been developed by the Technology Transfer Association (Armenia) and the National Focal Point of UNFCCC. The request points are derived from the experience of the Association in transfer of technologies including the climate sector, and the experience of the Focal Point in coordination of actions in the field.

Also the parties has the consultations with various players in the field, including the Ministry of Nature Protection of Armenia and Ministry of Energy and Natural Resources of Armenia

Expected timeframe:

The CTCN assistance would be provided all along the guidance and support process, and for this the period of approximately up to **24 months** can be foreseen.

Background documents:

1. Intended Nationally Determined Contribution (INDC) of the Republic of Armenia under the UN Climate Change Framework Convention
<http://www4.unfccc.int/submissions/INDC/Published%20Documents/Armenia/1/INDC-Armenia.pdf>
2. "Armenia - Country study on Climate Change" Prioect II PHASE.
Capacity building in the Republic of Armenia for Technology Needs Assessment and Technology Transfer for addressing Climate Change problems
http://unfccc.int/ttclear/misc/_StaticFiles/gnwoerk_static/TNR_CRE/e9067c6e3b97459989b2196f12155ad5/19789a07b4de493cb72e43c47fd4db1e.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 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: Technology Transfer Association, UJP

Date: June 23, 2016

Signature: 

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