

**UNITED NATIONS ENVIRONMENT PROGRAMME  
GLOBAL ENVIRONMENT FACILITY**

**Project Proposal**

|                                                                             |                                                                                                                             |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Country:</b>                                                             | <b>Turkmenistan</b>                                                                                                         |
| <b>Project Title:</b>                                                       | <b>Expedited Financing of Climate Change<br/>Enabling Activities (Phase II)</b>                                             |
| <b>GEF Focal Area:</b>                                                      | <b>Climate Change</b>                                                                                                       |
| <b>Country Eligibility:</b>                                                 | <b>Eligible under financial mechanism of the<br/>UNFCCC</b>                                                                 |
| <b>Date of Ratification:</b>                                                | <b>05 June 1995</b>                                                                                                         |
| <b>GEF Financing (Phase I):</b>                                             | <b>US\$ 350,000</b>                                                                                                         |
| <b>GEF Additional Financing<br/>(Phase II):</b>                             | <b>US\$ 100,000</b>                                                                                                         |
| <b>Total :</b>                                                              | <b>US\$ 450,000</b>                                                                                                         |
| <b>GEF Implementing Agency:</b>                                             | <b>UNEP</b>                                                                                                                 |
| <b>Executing Agency:</b>                                                    | <b>Research and Production Center of<br/>Ecological Monitoring of the Ministry of<br/>Nature Protection of Turkmenistan</b> |
| <b>Local Counterpart Agency:</b>                                            | <b>Ministry of Energy and Industry of<br/>Turkmenistan</b>                                                                  |
| <b>Estimated Date of Initial<br/>National Communication<br/>Submission:</b> | <b>September 2000 (submitted)</b>                                                                                           |
| <b>Estimated Starting Date:</b>                                             | <b>February 2001</b>                                                                                                        |
| <b>Project Duration:</b>                                                    | <b>12 months</b>                                                                                                            |

## 1. CURRENT SITUATION

The implementation of "Enabling activities for the preparation of the initial National Communication related to the UN Framework Convention on Climate Change (UNFCCC)" project started in November 1997. The initial National Communication of Turkmenistan related to the Climate Change was completed on the 31<sup>st</sup> of December 1999 and approved by the Turkmenistan State Commission on the Implementation of the UN Environmental Conventions. Following the approval by the Government the report was translated from Russian to English language and published. It was submitted to the UNFCCC before the 6<sup>th</sup> Conference of Parties held in November 2000.

The initial national communications provides a detailed summary on the national circumstances of Turkmenistan including an overview of the energy sector and development strategy. The communications provided the Government an opportunity to establish the greenhouse gas inventory, anthropogenic sources and sinks and an abatement strategy for the country.

In developing the adaptation strategy the project identified the main problem of observational data to validate the development of climate scenarios. For the purpose of making a better assessment of changes in the Central Asia climatic system, high quality observational data from available sources and data banks need to be acquired. It also requires the necessary computer facilities to access and utilise this data. In this context a regular issue of regional climate-monitoring bulletin will help to draw attention of the public, politicians and decision-makers, to the problems of climate change in the region.

"Operational Guideline for expedited financing of Climate Change Enabling Activities phase II": The expedited financing of enabling activities will assist Turkmenistan identify and assess its modern technology needs and report to the Conference of Party. We would outline the following areas within the framework of this Guideline:

- Technological needs of Turkmenistan cover a wide range of issues: reduction of greenhouse gas and technology in the context of mitigation to climate change.
- To reduce the emission of greenhouse gas, the essential priorities are: technology in the fuel-energy complexes including extraction and distribution of fuel; energy-efficient technology in industrial and municipal sectors; technology for clean energy (wind and solar energy).

- Water and soil-protecting technologies are the essential adaptation technology, which provides sustainable development of forestry and agriculture, preservation and promoting fishery and food security in the country.

The starting point of the implementation of additional activities will be based on the Initial National Communication related to the reduction of greenhouse gases and adaptation to the Climate Change, which will enable broaden selection of technology according to the developed activities.

## **2. ACTIVITIES INCLUDED IN THE PHASE II OF THE PROJECT**

### **(i) Identification/submission of technology needs and capacity building to assess technology needs, modalities to acquire and absorb them, design, evaluate and host projects**

To ensure fulfillment of the commitment towards the convention, due consideration will be given to the assessment of key technologies, which would enable reduction of greenhouse gases and minimize the unfavorable consequences of climate change. The project will identify requirements for effective technology for important sectors of the economy. It will also identify the resources and supplier and set up the condition for the procurement and application of the technology and finally identify the main barriers and possible solution. Solution of this issue requires technology needs assessment, exploration of the method used for accessing information provided by the international centers and networks and cooperation with them in obtaining new ecologically clean technologies.

Turkmenistan has huge reserves of organic fuel, but little use of renewable sources of energy. According to the national development plan, the country will be increasing exports of hydrocarbons for fulfilling its need of hard currency. At the same time, the obligations under UNFCCC require gradual reduction of the amount of fossil fuel use and increase the utilisation of non-traditional sources of energy. Real assessment of wind and solar energy resources and technology needs are a priority for this project.

The project will execute the following activities specifically:

- Participate and cooperate with scientific organisations, business organisations and networks both at national and regional levels to procure and disseminate information on clean technologies, specifically solar and wind energy.
- Establish contact with the countries of the region to jointly explore the potential of wind and solar energy use.
- Establish contacts with international organisations, such as IEA in the area of scientific-information exchange as well as formation of an ecologically clean technologies market.
- Identify the most effective domestic mechanisms supporting businesses and markets;

- To use the above information for technical cooperation with international donors to enable fund raising for projects.
- Facilitate dialogue among stakeholder (organizations etc.):
- Support a participatory approach for getting a consensus on priorities and strategies.
- Strengthen and ensure that during market reform a due consideration is given to the climate change problem.
- Implement certain activities towards strengthening the coordination network among institutions and support development and provision of technical cooperation.
- Build and strengthen the capacity of local personnel and experts of governmental institutions, private sector and non-governmental organizations, who are required for the identification and implementation of national and regional objectives in the area of technology requirement.
- Prepare the ground for assisting NGOs in starting their activities at the public level, remove certain barriers, promote public awareness among society (governmental institutions) on the potential of clean technologies.

#### **(ii) Capacity building for participation in systematic observation networks**

The following activities will be undertaken:

- Description of the state of the national programme on the systematic monitoring for meeting the requirements of meteorological and hydrological observation in accordance with the Global Climate Change Observation Programme and article 5 of the convention;
- Support and participation in the Central Asian network on climate observational systems.
- Description of actual and planned activities on strengthening the capacity in the area of information collection, exchange and use, which meet the local, regional and international requirements (exchange of information at international level, submission of meteorological data to the world database centers, participation in international programmes on quality control and data archiving).
- Analyze deficiencies related to the Climate observation network, develop concrete proposals for its improvement and identify country's needs;
- Identify the essential requirements for strengthening the capacity of those involved in Climate observation.

### ***3. Project development and implementation arrangement***

The development of the project and implementation arrangements includes the following:

- Develop medium and long-term activities and projects focused on concrete needs for energy saving and energy-consumption in various areas of economy and municipality.
- Identify the role of the private sector in the procurement and technology submission and identify the current barriers for its wide participation.
- To maintain and strengthen the national capacity on climate change already established using the same structure and personnel that were engaged in the implementation of the initial national communication of Turkmenistan project.

### **C. Monitoring and Evaluation**

A due consideration will be given to the project content after a detail work plan is prepared. The main idea of monitoring/review is to identify the problems, gaps and other negative moments that would hamper the implementation. In addition, the review will therefore, be aimed at establishing partnership and getting information on the project.

The executing agency jointly with UNEP will take over the responsibility for project monitoring. Having this in mind the project manager with support of research group leader will prepare the report on the implementation of the project as per the UNEP and GEF requirements.

It is decided to use the services of those personnel who were engaged in the implementation of the Initial Communication of Turkmenistan on UNFCCC in the development and implementation of this project.

The schedule of activities, project budget and outcomes of the Initial National Communication of Turkmenistan are attached.

Annex 1

Table C2

**Activity Matrix for Phase II of Climate Change Enabling Activities:**  
Priority activities for additional (interim) funding

| Activities                                                                                                                         | Planning and Execution | Capacity Maintenance/ Enhancement |                             |                                          |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------|-----------------------------|------------------------------------------|
|                                                                                                                                    |                        | Data gathering and Research       | Institutional strengthening | Training, Education and Public Awareness |
| 2A(i) identification and submission of technology needs                                                                            |                        | X                                 | X                           | X                                        |
| (ii) strengthening capacity to assess technology needs, modalities to acquire and absorb them, design, evaluate and host projects. |                        | X                                 | X                           | X                                        |
| 2.B. Capacity building for participation in systematic observation network                                                         |                        | X                                 | X                           | X                                        |
| 2.C. Prepare programme related to address climate change.                                                                          |                        |                                   |                             |                                          |

Annex 2

**TABLE D2****PROJECT BUDGET ACCORDING TO GEF ACTIVITY NORMS IN US DOLLARS****Cost estimates for (interim) priority activities**

| Activity                                                                                                                  | Planning and Execution | Capacity maintenance/enhancement |                           |                                          | Technical and Admin. Support | Cost Estimates US\$ |
|---------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------------|---------------------------|------------------------------------------|------------------------------|---------------------|
|                                                                                                                           |                        | Data gathering and research      | Insrtunonal strengthening | Training, education and public awareness |                              |                     |
| 1. (a) Identificanon and submission of technology needs                                                                   |                        | 8,000                            | 5,000                     | 7,000                                    |                              | 20,000              |
| (b) Build capacity to assess technology needs, modalities to acquire and absorb them, design, evaluate and host projects. |                        | 30,000                           | 7,000                     | 10,000                                   |                              | 47,000              |
| 2. Capacity building for participanion in systematic observanon networks.                                                 |                        | 7,000                            | 3,000                     | 8,000                                    | 3 000                        | 21,000              |
| 3. Preparanon of programs to address climate change                                                                       |                        |                                  |                           |                                          |                              |                     |
| 4. Project Management                                                                                                     |                        |                                  |                           |                                          |                              | 10,000              |
| 5 Monitoring and Evaluation                                                                                               |                        |                                  |                           |                                          |                              | 2,000               |
| <b>TOTAL</b>                                                                                                              |                        | <b>45,000</b>                    | <b>15,000</b>             | <b>25,000</b>                            | <b>3,000</b>                 | <b>100,000</b>      |

**TÜRKMENISTANYŇ  
TEBIGATY GORAMAK  
MINISTRIGI**



**MINISTRY  
OF NATURE PROTECTION  
OF TURKMENISTAN**

744000 Aşgabat ş., Kemine koç., Tel: (99312) 35-43-17 Telefaks (99312) 51-16-13, 39-66-09

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Mr. Ahmed DjoghlaŇ  
Executive Coordinator  
GEF Coordination Office  
UNEP

Dear Mr. A. DjoghlaŇ

I want to express the gratitude to United Nation Environment Program (UNEP), you personally and Global Ecological Facility (GEF) for active support rendered to Turkmenistan by means of the projects on technical support, in particular, in the field of climate change.

The Ministry of Nature Protection of Turkmenistan has honour with pleasure to inform you that by Turkmenistan the work for preparation of the First National Communication on Climate Change is completed successful at close cooperation with the experts of UNEP Office in Nairobi, Kenya.

I give on your consideration the project proposal, named «Expedited Financing of Climate Change Enabling Activities (Phase 2)», developed by Dr. Yu. Fedorov, Director of the Research & Production Centre of Ecological Monitoring in close cooperation with Mr. R. Sharma of your office. For me attracts to inform about complete support of the Project proposal. There is no doubt, that the given project will promote reduction of greenhouse gases emission, that is important in national and global scale.

Using the case, let me to express the sincere gratitude for close cooperation between Government of Turkmenistan and GEF.

Yours faithfully,

Minister

P. K. Kurbanov