

Scientific and Technical Advisory Panel

The Scientific and Technical Advisory Panel, administered by UNEP, advises the Global Environment Facility



STAP Scientific and Technical screening of the Project Identification Form (PIF)

Date of screening: 09th February 2010

Screener: Lev Neretin

Panel member validation by: N.H. Ravindranath

I. PIF Information

GEF PROJECT ID: **4097**

COUNTRY(IES): **TURKMENISTAN**

PROJECT TITLE: **IMPROVING ENERGY EFFICIENCY IN THE RESIDENTIAL BUILDINGS SECTOR OF TURKMENISTAN**

GEF AGENCY(IES): **UNDP**

OTHER EXECUTING PARTNER(S): **MINISTRY OF CONSTRUCTION, MINISTRY OF NATURAL PROTECTION, TURKMENGAS, SELECTED VELAYATS**

GEF FOCAL AREA (S): **CLIMATE CHANGE**

GEF-4 STRATEGIC PROGRAM(S): **CC-SP1**

NAME OF PARENT PROGRAM/UMBRELLA PROJECT (IF APPLICABLE): **GLOBAL UMBRELLA FRAMEWORK FOR PROMOTING LOW GREENHOUSE GAS EMISSION BUILDINGS**

II. STAP Advisory Response *(see table below for explanation)*

1. Based on this PIF screening, STAP's advisory response to the GEF Secretariat and GEF Agency(ies): **Consent**

III. Further guidance from STAP

1. The project aims at improving energy efficiency and reducing energy consumption in the residential sector in Turkmenistan. The project has a common set of components, outputs and outcomes: energy efficiency building codes, DSM, improved designs for residential consumers and housing reforms. This project is an important national initiative, because no similar large-scale projects have been implemented in the region, except for a medium sized UNDP-GEF project on EE of heat and hot water supply. STAP proposes to consider the following issues before the CEO endorsement.
2. **Retro-fitting needs:** Retrofit is not addressed since the focus is only on EE installations in new buildings. The reasons for not including support for retrofitting existing buildings have not been explained. STAP suggests analyzing the existing barriers to EE retrofitting of existing buildings and develop measures addressing these barriers.
3. **EE Building codes and DSM:** These measures could be enforced through mandatory legislation, financial incentives and training and awareness building. There is a need to introduce a coherent strategy to promote EE systems in buildings, since the builders may not have incentives to invest in EE systems.
4. **Policy, knowledge and institutional barriers:** These three barriers provide opportunities for GEF interventions to promote EE buildings and have to be analyzed.
5. **Strategy for Scale-up:** Strategy for replication and scaling up is not clear. Setting up of the design institutes and making recommendations may not be adequate for scaling up efforts.

<i>STAP advisory response</i>	<i>Brief explanation of advisory response and action proposed</i>
1. Consent	STAP acknowledges that on scientific/technical grounds the concept has merit. However, STAP may state its views on the concept emphasising any issues that could be improved and the proponent is invited to approach STAP for advice at any time during the development of the project brief prior to submission for CEO endorsement.
2. Minor revision required.	STAP has identified specific scientific/technical suggestions or opportunities that should be discussed with the proponent as early as possible during development of the project brief. One or more options that remain open to STAP include:

	<ul style="list-style-type: none"> (i) Opening a dialogue between STAP and the proponent to clarify issues (ii) Setting a review point during early stage project development and agreeing terms of reference for an independent expert to be appointed to conduct this review <p>The proponent should provide a report of the action agreed and taken, at the time of submission of the full project brief for CEO endorsement.</p>
3. Major revision required	<p>STAP proposes significant improvements or has concerns on the grounds of specified major scientific/technical omissions in the concept. If STAP provides this advisory response, a full explanation would also be provided. Normally, a STAP approved review will be mandatory prior to submission of the project brief for CEO endorsement.</p> <p>The proponent should provide a report of the action agreed and taken, at the time of submission of the full project brief for CEO endorsement.</p>