

Scientific and Technical Advisory Panel



The Scientific and Technical Advisory Panel, administered by UNEP, advises the Global Environment Facility (Version 5)

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

Date of screening: 13-3-2008

Primary Screener: Douglas Taylor

Panel member Review by: N.H. Ravindranath

I. PIF Information

GEFSEC PROJECT ID: 3624

GEF AGENCY PROJECT ID: 4158

COUNTRY(IES): Uzbekistan

PROJECT TITLE: Promoting Energy Efficiency in Public Buildings **AGENCY(IES):** UNDP,

OTHER EXECUTING PARTNER(S): The State Committee on Architecture and Construction of the Republic of Uzbekistan

GEF FOCAL AREA (S): Climate Change

GEF-4 STRATEGIC PROGRAM(S): CC-1 Promote Energy-Efficient Buildings and Appliances

NAME OF PARENT PROGRAM/UMBRELLA PROJECT:N/A

Full size project GEF Trust Fund

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

Promoting energy efficiency in public buildings provides a large opportunity to conserve energy and reduce GHG emissions in Uzbekistan. The following issues could be addressed for clarity. Conclusions of Intergovernmental Panel on Climate Change provide a potential list of measures with large mitigation potential as well as low cost mitigation measures for Economies in Transition (IPCC, 2007). It may be useful to identify the, most effective and cost-effective, technologies as well as policy instruments aimed at mitigating GHG emissions in the building sector using the best practices. Some examples of mitigation options with largest potential for mitigation include; efficient lights, efficient appliances such as air conditioners and refrigerators, water and space heating control system, low GHG construction materials, improved insulation and district heating in colder climates and space cooling and ventilation in the warmer climates. IPCC has included that it is possible to achieve 75% of energy savings in individual new buildings. Further, IPCC concluded that realizing such high savings requires an integrated design process involving architects, engineers, contactors and clients with full consideration of opportunities for passively reducing the energy demands of buildings (IPCC, 2007).

i) Technical Interventions: Clarity and explanation on what constitutes "Integrated Building Design" approach in the context of public buildings could be provided. How will the technology package be developed? What steps would be adopted? How will the energy performance standards be revised and the basis for estimating energy efficiency be developed?

ii) Baseline: Baseline scenario could be more clearly explained, in addition to description of current status.

iii) Control Groups: Since two energy efficient model public buildings are to be built, a few buildings could be selected as 'Control' buildings for comparing energy efficiency and GHG emission reduction achieved.

iv) GHG mission reduction projection and monitoring: What methods and institutional arrangements will be adopted of monitoring energy conserved and GHG emission reduction achieved?

Reference: IPCC, 2007, Climate Change; Mitigation of Climate Change.

STAP advisory response	Brief explanation of advisory response and action proposed
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.	<p>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:</p> <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>