

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: 10-3-2008

Screener: N.H. Ravindranath and Douglas Taylor

Panel member validation by: N.H. Ravindranath

I. PIF Information :

Full size project **GEF Trust Fund**
GEFSEC PROJECT ID: 3537
GEF AGENCY PROJECT ID: P108766
COUNTRY(IES): Mexico
PROJECT TITLE: Mexico Rural Development
GEF AGENCY(IES): World Bank
OTHER EXECUTING PARTNER(S): SAGARPA/FIRCO
GEF FOCAL AREA (S): Climate Change
GEF-4 STRATEGIC PROGRAM(S): CC-SP2; CC-SP4
NAME OF PARENT PROGRAM/UMBRELLA PROJECT:

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

2. **i) Technical Intervention:** The proposed project will have significant implications for promoting energy efficiency and renewable energy technologies in agro-industrial sectors of Mexico. There is limited information on the technologies to be adopted for assessment. The project includes both energy efficiency as well as renewable energy technologies. There will be a large number of agro-industries in Mexico. What criteria will be used for selecting or prioritizing industries for technological interventions or energy efficiency improvements? There is no clarity on whether energy efficiency improvements will occur through energy efficient lightings or motors or boiler or furnaces or through process heat application. Where will the electricity from biomass sources be used. What is the proportion of the shift to biogas based power and biomass power from biomass combustion and gasification. Thus, it is very important to provide a prioritized list of industries, technological interventions (energy efficiency and biomass power), and energy conversion systems or applications (lighting or motors or process heat). What will be the role of biomass production in the project? What proportion of biomass power will come from biogas route versus gasification route? Which industries will be provided with upfront investment cost?
- ii) Baseline and Control groups:** There is a need for description of the baseline scenario conditions in a quantitative manner and the status with respect to energy use and GHG emissions, in the absence of GEF project. Will the project be using control systems or industries for comparing energy savings or GHG emissions reduction?
- iii) Methods and monitoring:** What methods and techniques will be used to estimate and monitor the energy savings, renewable power use and GHG emission reduction? Will carbon sequestration from biomass production be monitored, if so what methods will be adopted.
- iv) Risks:** Will there be any risks associated with technologies and their performance with respect to energy efficiency or renewable power generation and GHG emission reduction.

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	STAP has identified specific scientific/technical suggestions or opportunities that should be discussed with the proponent as

<p>required.</p>	<p>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>
<p>3. Major revision required</p>	<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>