

# 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: 26<sup>th</sup> January 2010

Screeener: Lev Neretin

Panel member validation by: N.H. Ravindranath

### I. PIF Information

GEFSEC PROJECT ID: 4171

REGION/COUNTRIES: **CARIBBEAN: ANTIGUA AND BARBUDA, BELIZE, GRENADA, ST. LUCIA, AND TRINIDAD AND TOBAGO**

PROJECT TITLE: **ENERGY FOR SUSTAINABLE DEVELOPMENT IN THE CARIBBEAN (ESD-CARAIBES)**

GEF AGENCY: **UNEP**

OTHER EXECUTING PARTNERS: **MINISTRY OF FOREIGN AFFAIRS OF ANTIGUA AND BARBUDA, MINISTRY OF NATURAL RESOURCES AND THE ENVIRONMENT BELIZE, GRENADA ENERGY DIVISION, ST. GEORGE'S UNIVERSITY, ST. LUCIA ENVIRONMENTAL POLICY AND PLANNING DIVISION, TRINIDAD & TOBAGO, AND CARIBBEAN COMMUNITY CLIMATE CHANGE CENTRE (5Cs)**

GEF FOCAL AREA: **CLIMATE CHANGE**

GEF-4 STRATEGIC PROGRAM: **CC-SP1**

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

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

**Minor revision required**

### III. Further guidance from STAP

1. The project's objective is to transfer and implement sustainable energy policies and instruments in the Caribbean SIDs through the promotion of energy efficiency and renewable energy use focusing on building sector. The project addresses a number of barriers including information, regulatory, capacity building and financial barriers. Some benefits can be accrued though the use of a regional approach, particularly those related to knowledge management and increased replication potential. STAP requests that the following issues be addressed before the CEO endorsement.
2. **Baseline:** STAP recommends presenting baseline situation for each of the targeted country in terms of energy efficiency and renewable energy market barriers and existing technologies in building sector and prioritize interventions accordingly to be supported at the national and regional levels. STAP wants to see more emphasis in the project on promoting system approach to energy conservation and efficiency because energy savings are higher through the use of better and alternative energy systems (heating, cooling, ventilation) compared to savings achieved by the use of energy-efficient equipment and appliances.
3. **Sustainable Energy:** The phrase "sustainable energy" is not clearly explained. If the aim is to focus only on EE and RE in the building sector, why use the term "sustainable energy"?
4. **EE or RE:** The focus of the discussion is largely on EE in buildings. Solar energy is mentioned in between. PIF does not provide a clear distinction/strategy for the promotion of EE only or EE and RE. It is also not clear whether the project considers energy efficiency and renewables at the national level beyond the building sector?
5. **Sectors:** There is a lack of clarity on which sectors are included in the project:
  - a. whether the project aims at electricity use only for lighting, AC and other appliances in the building;
  - b. whether construction materials are also included; covering steel, cement, aluminium, glass etc.;
6. **Financial Mechanism:** What is the source of financing for EE activities? Why risk hedging against fuel price spikes? Which fiscal incentives are considered for financing renewable energy sources?
7. **Barrier Analysis:** The barriers in promotion of EE and RE are likely to be different for different technologies and possibly different islands. The barriers to promotion of sustainable energy are not

clear. STAP suggests conducting a systematic barrier analysis to identify, rank and prioritize barriers for different technologies in different islands to enable targeted approach to overcome the barriers.

8. **Risk Assessment:** The risk of incremental cost of incorporating EE and RE technologies into buildings is not adequately recognized. Resistance from builders and architects to components which may increase the cost of building should also be recognized and addressed by proposed interventions.
9. **Climate resilience:** STAP welcomes notion that the project should increase climate resilience of targeted SIDs through actions supporting energy efficiency and distributed renewable energy use in buildings. However, no specific information/analysis provided about “climate-proofing” of proposed technological interventions. This analysis is critical in the context of climate change impacts on SIDs. STAP recommends conducting more detailed analysis of climate risks of the proposed interventions at the project preparation stage and mainstream these risks in all project components. Sufficient resources should be allocated for such analysis.

<i>STAP advisory response</i>	<i>Brief explanation of advisory response and action proposed</i>
<b>1. Consent</b>	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.
<b>2. Minor revision required.</b>	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: <ol style="list-style-type: none"> <li>(i) Opening a dialogue between STAP and the proponent to clarify issues</li> <li>(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</li> </ol> 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.
<b>3. Major revision required</b>	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. 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.