

# 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: 02<sup>nd</sup> October 2009

Screener: Lev Neretin

Panel member validation by: N.H. Ravindranath

### I. PIF Information (Paste here from the PIF)

**GEF PROJECT ID:** 4032

**COUNTRY(IES):** REPUBLIC OF TURKEY, COOK ISLANDS

**PROJECT TITLE:** REALIZING HYDROGEN ENERGY INSTALLATIONS ON SMALL ISLANDS THROUGH TECHNOLOGY CO-OPERATION

**GEF AGENCY(IES):** UNIDO

**OTHER EXECUTING PARTNER(S):** UNIDO-ICHET (INTERNATIONAL CENTRE FOR HYDROGEN TECHNOLOGIES), MINISTRY OF ENERGY AND NATURAL RESOURCES (TURKEY), MINISTRY OF ENERGY (COOK ISLANDS)

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

**GEF-4 STRATEGIC PROGRAM(S):** CC-SP3-RE

**NAME OF PARENT PROGRAM/UMBRELLA PROJECT:** STRATEGIC PROGRAM ON TECHNOLOGY TRANSFER

### 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

The proposed technology Re-to H<sub>2</sub> system is at the R&D phase and its wider applicability in developing countries at this stage is questionable as much as the potential for delivery of GEBs. This technology is yet to be proven for financial viability and reliable performance. STAP strongly recommends conducting technology performance and reliability assessment. Further, cost-benefit analysis and comprehensive risk assessment using experience gained in Northern Europe at the project preparation phase and not *ex-post* as proposed in the PIF.

All the risks involved in the technology demonstration need to be assessed. If due to some reasons the technology fails, what are the options? Demonstration of one unit may not even be adequate to learn lessons for large scale diffusion. STAP suggests to treat this project more as demonstration of new technology and not for large scale diffusion, since more demonstrations may be needed.

STAP recommends complementing project interventions on hydrogen systems by supporting enabling environment for the transfer of RE technologies or clearly describe coordination with other related TT initiatives in Turkey and Cook Islands.

<i>STAP advisory response</i>	<i>Brief explanation of advisory response and action proposed</i>
1. <b>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.
2. <b>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: (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 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.
3. <b>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.