

# 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: February 26, 2013

Screener: Lev Neretin

Panel member validation by: Ralph E. Sims  
Consultant(s):

### I. PIF Information *(Copied from the PIF)*

**FULL SIZE PROJECT    GEF TRUST FUND**

**GEF PROJECT ID:** 5149

**PROJECT DURATION :** 4

**COUNTRIES :** Cuba

**PROJECT TITLE:** Clean Energy Technologies for the Rural Areas in Cuba (CleanEnerg-Cuba)

**GEF AGENCIES:** UNDP

**OTHER EXECUTING PARTNERS:** Estaci3n Experimental Indio Hatuey (EEIH), Matanzas, Cuba

**GEF FOCAL AREA:** Climate Change

### 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

There is often variations in quality of biodiesel produced in small-scale plants as proposed. How will the need to maintain fuel standard quality (and hence reduce risks to engines) be monitored when the biodiesel is to be sold off-site?

Jatropha yields often tend to be less than projected, especially when grown on marginal (or idle) lands. In this example it is not explained exactly how increased food crop productivity results as learned in BIOMAS I; what the food crops were in the study; what the jatropha oil yields might be; whether land use competition will result; whether the production system might be successful in regions other than Guantanamo. Neither is the harvesting technique mentioned - possibly manual?

Using plastic materials in digester components is creditable but there will still be metal parts subject to corrosion from the hydrogen sulphide gas contained in the biogas. The size and type of "modern digester designs" is not defined. Who will operate and maintain them? Biogas can also provide heat (as well as transport fuel and electricity). This is not covered - for example, in CHP plants.

I would have thought the FAO would have had a strong interest as well as UNDP - see for example:  
<http://www.fao.org/docrep/014/i2454e/i2454e00.pdf>

<i>STAP advisory response</i>	<i>Brief explanation of advisory response and action proposed</i>
<b>1. Consent</b>	STAP acknowledges that on scientific or technical grounds the concept has merit. However, STAP may state its views on the concept emphasizing any issues where the project could be improved.  Follow up: The GEF Agency is invited to approach STAP for advice during the development of the project prior to submission of the final document for CEO endorsement.
<b>2. Minor revision required.</b>	STAP has identified specific scientific or technical challenges, omissions or opportunities that should be addressed by the project proponents during project development.  Follow up: One or more options are open to STAP and the GEF Agency: (i) GEF Agency should discuss the issues with STAP to clarify them and possible solutions. (ii) In its request for CEO endorsement, the GEF Agency will report on actions taken in response to STAP's recommended actions.

<p>3. <b>Major revision required</b></p>	<p>STAP has identified significant scientific or technical challenges or omissions in the PIF and recommends significant improvements to project design.</p> <p>Follow-up:</p> <p>(i) The Agency should request that the project undergo a STAP review prior to CEO endorsement, at a point in time when the particular scientific or technical issue is sufficiently developed to be reviewed, or as agreed between the Agency and STAP.</p> <p>(ii) In its request for CEO endorsement, the Agency will report on actions taken in response to STAP concerns.</p>
--	---