

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 25, 2013

Screeners: 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: 5150

PROJECT DURATION : 2

COUNTRIES : Chile

PROJECT TITLE: Delivering the Transition to Energy Efficient Lighting

GEF AGENCIES: UNEP

OTHER EXECUTING PARTNERS: Energy and Environment Ministries

GEF FOCAL AREA: Multi Focal Area

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): **Consent**

III. Further guidance from STAP

This is a well thought through project balancing phasing in of CFLs and LEDs but maintaining quality of lighting, avoiding poor quality of products through the test centres, and considering disposal of old light bulbs. The UNEP "enlighten" initiative has been a successful driver and this project builds upon that. STAP has the following comments to be considered during project preparation:

1. Almost half the total budgeted funding going towards policies and legal and regulatory frameworks with emphasis on LEDs makes good sense.
2. Distribution of 3 million CFLs in 2008/2009 by Chilean government was a good start but would be important to understand share of total incandescent bulbs it replaced. In similar contexts this has been a very small percentage. Ex-ante assessment as well as provision for monitoring are desirable.
3. Page 10. CO2 reductions should be "over 20 Mt CO2" and not "20 TWh". Is this based on the present electricity generation mix or on how that mix might evolve out to 2030?
4. The future mix of 85% CFLs, 5% LEDs and 10% incandescents is fine but, given the problems of mercury when disposing of CFLs, a higher share of LEDs could be a good target to aim for. Leap-frogging to 90% LEDs would be innovative but probably impractical. In this light project proponents are advised to consider these targets and possibly revise them.
5. It's not clear what will be measured/monitored in order to assess the project success (or otherwise). Could it be the number of CFLs/LEDs sold by a certain date? Or the number actually installed? Similar to point 2 above, robust M&E system for this project is highly desirable.

<i>STAP advisory response</i>	<i>Brief explanation of advisory response and action proposed</i>
1. Consent	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.
2. Minor revision required.	<p>STAP has identified specific scientific or technical challenges, omissions or opportunities that should be addressed by the project proponents during project development.</p> <p>Follow up: One or more options are open to STAP and the GEF Agency:</p> <p>(i) GEF Agency should discuss the issues with STAP to clarify them and possible solutions.</p> <p>(ii) In its request for CEO endorsement, the GEF Agency will report on actions taken in response to STAP's recommended actions.</p>
3. Major revision required	<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>