

GEF SECRETARIAT REVIEW FOR FULL/MEDIUM-SIZED PROJECTS* THE GEF/LDCF/SCCF TRUST FUNDS

GEF ID:	4790		
Country/Region:	Egypt		
Project Title:	Promoting Low-carbon Technologies for Cooling and Heating in Industrial Applications in Egypt		
GEF Agency:	UNIDO	GEF Agency Project ID:	
Type of Trust Fund:	GEF Trust Fund	GEF Focal Area (s):	Climate Change
GEF-5 Focal Area/ LDCF/SCCF Objective (s):		CCM-3; Project Mana; CCM-	3;
Anticipated Financing PPG:	\$0	Project Grant:	\$6,500,000
Co-financing:	\$41,650,000	Total Project Cost:	\$48,150,000
PIF Approval:		Council Approval/Expected:	
CEO Endorsement/Approval		Expected Project Start Date:	
Program Manager:	David Elrie Rodgers	Agency Contact Person:	Ms. Rana Ghoneim

Review Criteria	Questions	Secretariat Comment at PIF (PFD)/Work Program Inclusion	Secretariat Comment At CEO Endorsement(FSP)/Approval (MSP)
Eligibility	1.Is the participating country eligible?	DER/DZ, December 21, 2011. Yes.	
	2. Has the operational focal point	DER/DZ, December 21, 2011. No.	
	endorsed the project?	Please supply endorsement letter.	
		DER, March 26, 2012. Yes. The	
		endorsement letter provides for \$7.31M	
		for the project, PPG, and fee. Signed by	
		OFP Mr. Hegazy on 11 March 2012.	
Agency's	3. Is the Agency's comparative	DER/DZ, December 21, 2011. Yes.	
Comparative	advantage for this project clearly		
Advantage	described and supported?		
	4. If there is a non-grant instrument in	DER/DZ, December 21, 2011. The	
	the project, is the GEF Agency	project does not yet include a non-grant	
	capable of managing it?	instrument. UNIDO is encouraged to	
		identify potential partners who can	
		manage non-grant instruments, such as	
		risk guarantee or revolving loan	

		private sector financial institutions in the project.	
		the project.	
		DER, March 26, 2012. A non-grant	
		instrument and private sector	
		involvement will be explored during the	
		PPG phase. Comment cleared.	
	5. Does the project fit into the Agency's	DER/DZ, December 21, 2011. Yes.	
	program and staff capacity in the country?		
	6. Is the proposed Grant (including the		
	Agency fee) within the resources		
	available from (mark all that apply):		
D			
Resource Availability			
Availability	• the STAR allocation?	DER/DZ, December 21, 2011. Yes.	
	• the focal area allocation?	DER/DZ, December 21, 2011. Yes.	
	• the LDCF under the principle of	DER/DZ, December 21, 2011. NA	
	equitable access		
	• the SCCF (Adaptation or	DER/DZ, December 21, 2011. NA	
	Technology Transfer)?		
	 Nagoya Protocol Investment Fund 	DER/DZ, December 21, 2011. NA	DER/DZ, December 21, 2011. NA
	• focal area set-aside?	DER/DZ, December 21, 2011. NA	
	7. Is the project aligned with the focal	DER/DZ, December 21, 2011. Not yet.	
	/multifocal areas/ LDCF/SCCF/NPIF	a) For CCM-1, more justification is	
	results framework?	needed for the innovative, low-carbon	
		technologies. If the solar technologies	
		being proposed are commercially	
		available and already in use in Egypt,	
Project Consistency		CCM-1 is not appropriate. Please clarify.	
1 Toject Consistency		b) Table D is not filled out. Please	
		supply.	
		DER, March 26, 2012.	
		a) Project has been re-classified as	
		CCM2 Danarrahla anarar Commant	

		b) Table D is not required, but is filled	
		out regardless. Thank you.	
	8. Are the relevant GEF 5 focal/ multifocal areas/LDCF/SCCF/NPIF objectives identified?	DER/DZ, December 21, 2011. Yes.	
	9. Is the project consistent with the recipient country's national strategies and plans or reports and assessments under relevant conventions, including NPFE, NAPA, NCSA, or NAP?	DER/DZ, December 21, 2011. Yes.	
	10. Does the proposal clearly articulate how the capacities developed, if any, will contribute to the sustainability of project outcomes?	DER/DZ, December 21, 2011. Not sufficiently. Please clarify how the project will lead to replicable and sustainable financing options for solar energy in industry after the project is complete. DER, March 26, 2012. The response documents important regulatory and financial activities of the project that will support sustainability. Comment cleared.	
	11. Is (are) the baseline project(s), including problem (s) that the baseline project(s) seek/s to address, sufficiently described and based on sound data and assumptions?	DER/DZ, December 21, 2011. Yes. At CEO endorsement stage, more descriptions are expected on the existing policies for promotion of solar and the gaps for application of solar in industry. DER, March 26, 2012. Acknowledged for response at CEO endorsement stage.	
Project Design			
	12. Has the cost-effectiveness been sufficiently demonstrated, including the cost-effectiveness of the project		

alternative approaches to achieve similar benefits?		
13. Are the activities that will be financed using GEF/LDCF/SCCF funding based on incremental/additional reasoning?	DER/DZ, December 21, 2011. a) The investment components are not well defined. Are the demonstration projects going to be financed with grants? b) Please describe in the PIF how nongrant instruments, such as revolving loan programs or risk guarantee programs, or other types of instruments, that will increase availability of financing for solar investments and enhance the supply chain. These could be most applicable in component 3.	
	DER, March 26, 2012. a) & b) Non-grant instrument will be studied during PPG phase and may be used for financing. Comment cleared.	
14. Is the project framework sound and sufficiently clear?	DER/DZ, December 21, 2011. Not yet. a) Component 1, Strengthening of Policy and Institutional framework includes adoption, which is positive. Please clarify the commitment from Government of Egypt to adopt the policy guidelines. b) Component 2, is shown as an Investment component. Please clarify if any of the funding, either GEF grant or co-financing is for TA. If TA is included, please delineate the TA and Investment portions of this component on two separate rows. c) Component 2. Please clarify how much investment per project is expected. Will the investment portion provide loans for demonstration projects	

d) Component 3. Please explain how the business model development will be related to the demonstration projects in component 2. Will suppliers of solar technology be eligible for loans? Please consider providing a non-grant instrument that makes it easier for suppliers to scale up business models. e) Component 4. The relative size of component 3 compared to component 4 is good, showing more resources are allocated on scale up. f) The relationship between component 2 (demonstration projects) and component 3 (scale-up) is somewhat confusing. Will the investment component be used for the pilot projects? Or will a financing facility be established that will provide sustainable funding for scale up? Please clarify. please include the demonstrations in one component and the scale-up and financing in a separate component. g) The inclusion of an investment element in component 3 is positive. How will that element ensure sustainable financing for scale-up after the project is completed? Please clarify. h) The project focuses in applications both in the industrial and the tourist sector. It is not clear if the needs and the opportunities in these two sectors merit an integrated approach with common incentives and technological solutions; please clarify. Also, the different characteristics of the stakeholders from the governmental side and the private sector side might complicate the execution arrangement; please address this issue.

	DER, March 26, 2012. All comments
	cleared. Thank you.
15. Are the applied methodology and	
assumptions for the description of	
the incremental/additional benefits	
sound and appropriate?	a) There are some errors in the project
	benefits analysis. The figure of 8,000
	MW is not credible given the supporting
	documentation. We also do not
	understand how the calculation of global
	environmental benefits was performed.
	b) Please clarify the expected amount of
	thermal and electrical capacity
	established by the project and ensure
	that the amount is consistent with the
	financing and co-financing requested.
	c) We do not understand the replication
	estimate based on 3% of Egypt solar
	potential. Please provide a better
	estimate based on the sectors that will
	be demonstrated and supported through
	the project.
	DER, August 8, 2012.
	a) The estimation of benefits has been
	clarified and expanded. However, the
	explanation for the figure of 8,000 MW
	has not been explained. Please explain
	how the project financing can help
	create this much solar power by
	demonstrating the average installation
	costs for solar power.
	b) Please provide as requested.
	c) Please expand on the 3% explanation.
	Also, the 16,000 million tCO2e estimate
	is very high - that is 16 gigatons, which
	is two times US annual carbon
	emissions. Perhaps the mathematical
	notation is using a mixture of european
	and united states notation.

	assistance to the manufacturing sector is
	helpful. Please confirm the math - 468
	million CO2e reductions per year for an
	investment of \$40 million is less than 10
	cents per ton reduced. We would not
	expect to see such high cost-
	effectiveness. Also, please check that
	the estimates are based on life of
	equipment.
	e) Please rationalize the emissions
	benefit calculation against similar
	projects, such as #4753 in Pakistan. In
	that project, a similar investment leads
	to 150 ktonCO2e benefits per year.
	DER, August 29, 2012.
	a) The correct figure is 8,000 kw or
	8MW. Comment cleared.
	b) The breakdown was provided.
	Comment cleared.
	c) & d) Some mathematical errors were
	corrected. The estimated emissions
	reductions are 9.5 million tCO2e over
	20 years. At CEO endorsement, please
	provide a more robust estimation and
	justify why the bottoms-up estimate is
	higher than the top-down estimate.
	Comment cleared.
	e) After correction, the levels are
	reasonable. Comment cleared.
16. Is there a clear description of: a) the	DER/DZ, December 21, 2011.
socio-economic benefits, including	Incomplete. Please provide a description
gender dimensions, to be delivered	of the gender dimensions for industry
by the project, and b) how will the	sectors.
delivery of such benefits support the	DED 14 1 26 2012 PIE 1 1 1
achievement of incremental/	DER, March 26, 2012. PIF updated.
additional benefits?	Comment cleared.
17. Is public participation, including	DER/DZ, December 21, 2011. Yes. At
CSOs and indigeneous people, taken	CEO endorsement, please identify
into consideration, their role	specific CSOs and industry associations

	18. Does the project take into account potential major risks, including the consequences of climate change and provides sufficient risk mitigation measures? (i.e., climate resilience)	DER, March 26, 2012. Acknowledged and will be handled at CEO endorsement. DER/DZ, December 21, 2011. The list of risks is quite low, however, the reference to sustainability risk does not include mention of the risk that sustainable funding mechanisms are not established. Please clarify.	
		DER, March 26, 2012. Risk identified. Comment cleared.	
	19. Is the project consistent and properly coordinated with other related initiatives in the country or in the region?	DER/DZ, December 21, 2011. To be determined. Please respond to the following comments: a) The provided document summarizing the Government of Egypt GEF-5 project priorities shows several different projects all related to renewable energy, some of which list UNIDO is a candidate Agency. Please clarify how this project will not overlap other projects and whether these projects should be combined. b) The funding level requested in the PIF is higher than the funding level for the project of the same name identified in the Government of Egypt document. Please clarify.	
		DER, March 26, 2012. a) The efforts have been better coordinated and consolidated. Comments cleared. b) Correct number provided in endorsement letter. Comment cleared.	
	20. Is the project implementation/ execution arrangement adequate?	DER/DZ, December 21, 2011. Not specified. Please supply.	
^			

		provided. Comment cleared.	
	21. Is the project structure sufficiently close to what was presented at PIF, with clear justifications for changes?		
	22. If there is a non-grant instrument in the project, is there a reasonable calendar of reflows included?		
Project Financing	23. Is funding level for project management cost appropriate?	DER/DZ, December 21, 2011. No. The project management cost exceeds 5% of the GEF requested amount of \$6.2 M. Please adjust to 5% or less of the requested GEF funding amount, or justify the level above 5%. DER, March 26, 2012. Adjusted.	
	24. Is the funding and co-financing per objective appropriate and adequate to achieve the expected outcomes and outputs?	Comment cleared. DER/DZ, December 21, 2011. No. a) It appears that co-financing for component 2 is adequate, though funding appears to come only from the Government of Egypt. Please clarify if private sector funding will be used in the demo projects. b) Co-financing for scale-up is low. Please consider consolidating the scale-up and financing focused in one component, not split across two. DER, March 26, 2012. a) & b) The co-financing numbers have been raised, but there is a disconnect between the level of financing, both GEF requested and co-financing, and the expected deliverables of thermal and electrical capacity. A cost-effective project will have significantly higher levels of solar thermal and electrical	

	re-designed and the amount of financing
	justified consistent with the
	deliverables. A technical consultation
	with GEF and agency staff is
	recommended.
	DED 4 0.0010
	DER, August 8, 2012.
	a) & b) Thank you for adding the
	estimates of the benefits from
	component 3. This is helpful, but the
	math needs to be confirmed. (This also
	relates to the comment in box 15 and the
	new estimates provided for GEB on
	page 11-12 of the PIF.) Please re-
	confirm the math and re-submit.
	DER, August 29, 2012.
	a) & b) The benefits estimate for
	component 3 has been included.
	Comment cleared.
25. At PIF: comment on the indicated	DER/DZ, December 21, 2011. No.
cofinancing;	a) Please clarify the role of for private
At CEO endorsement: indicate if	sector co-financing. How is that co-
confirmed co-financing is provided.	financing divided between the pilots and
commined to intending is provided.	the scale-up?
	b) The amount of co-financing from the
	Government of Egypt is quite good,
	however, the overall level of co-
	financing is low approximately 4:1.
	Please increase the level of co-
	financing.
	c) The PIF could be enhanced with
	additional private sector and local
	financing through the use of catalytic
	non-grant instruments. Please clarify.
	DER, March 26, 2012.
	a) & b) Please see box 24.
	c) The use of non-grant instruments
	needs to be described at the PIF stage

	26. Is the co-financing amount that the Agency is bringing to the project in line with its role?	DER, August 8, 2012. c) The use of a non-grant instrument based on an existing UNDP model is described. Comment cleared. DER/DZ, December 21, 2011. Yes.	
Project Monitoring and Evaluation	27. Have the appropriate Tracking Tools been included with information for all relevant indicators, as applicable?		
	28. Does the proposal include a budgeted M&E Plan that monitors and measures results with indicators and targets?		
Agency Responses	29. Has the Agency responded adequately to comments from:		
	• STAP?	DER/DZ, December 21, 2011. NA	
	Convention Secretariat?	DER/DZ, December 21, 2011. NA	
	Council comments?		
	Other GEF Agencies?	DER/DZ, December 21, 2011. NA	
Secretariat Recommer	ndation		
Recommendation at PIF Stage	30. Is PIF clearance/approval being recommended?	DER/DZ, December 21, 2011. Not at this time. Please respond to comments in boxes: 4, 7, 10, 11, 13, 14, 16, 17, 18, 20, 23, 24, and 25. Also please pay attention to box 31 for items requested at CEO endorsement. Please coordinate PIF re-submission and responses with the related project 4788 (India). DER, March 26, 2012. Not at this time. Please see comments in boxes 14, 24, and 25. Additional work is needed to prepare a sound analysis of the energy capacity and emissions benefits of the project; and to ensure that GEF requested resources are delivering	

	31. Items to consider at CEO endorsement/approval.	a cost-effective manner. Also, we need to see more description of how nongrant instruments would be included in the project. DER, August 8, 2012. Not at this time. Comments in box 25 was addressed. Comments in box 15 and 24 need additional response. Please supply. DER, August 29, 2012. Yes. The PIF has been technically cleared and may be included in an upcoming Work Program. DER/DZ, December 21, 2011. a) Confirmed letters of co-financing	
		from all partners are expected. b) Please explore options for the use of non-grant instruments that could help enhance and attract more local private sector financing. c) At CEO endorsement stage, more detailed descriptions of the baseline project are needed, specifically existing policies for promotion of solar and the gaps for application of solar in industry. d) please identify specific CSOs and industry associations as partners. DER, March 26, 2012. e) We expect to see a more detailed analysis supporting the estimate for global environmental benefits.	
Recommendation at CEO Endorsement/ Approval	32. At endorsement/approval, did Agency include the progress of PPG with clear information of commitment status of the PPG?		
Review Date (s)	33. Is CEO endorsement/approval being recommended? First review*	December 21 2011	

Additional review (as necessary)	August 29, 2012	
Additional review (as necessary)		
Additional review (as necessary)		

^{*} This is the first time the Program Manager provides full comments for the project. Subsequent follow-up reviews should be recorded. For specific comments for each section, please insert a date after comments. Greyed areas in each section do not need comments.

REQUEST FOR PPG APPROVAL

Review Criteria	Decision Points	Program Manager Comments
PPG Budget	Are the proposed activities for project preparation appropriate?	DER/DZ, December 21, 2011. No. Most of the components of the PPG are appropriate. What is missing is an analysis of financial and market opportunities for sustainable financial mechanisms in partnership with private sector and local financial institutions. This should be added to the PPG in order to build the necessary understanding and mechanisms to support components 2 and 3 of the PIF.
		DER, March 26, 2012. Analysis and consultation added. Comment cleared.
	2. Is itemized budget justified?	DER/DZ, December 21, 2011. Yes.
	3.Is PPG approval being	DER/DZ, December 21, 2011. Not at this time.
	recommended?	a) Please address comments in Box 1
		b) The PPG form is not signed.
		c) The proposed time scale for the PPG, from March 2012 to August 2013, is 18
Secretariat		months. The CEO endorsement must be submitted and approved within 18
Recommendation		months under GEF-5, and therefore the project design phase must be shorter to accommodate sufficient time for submission, review, and endorsement. Please rectify.
		d) Please coordinate the project preparation with the related project 4788 (India).
		DER, March 26, 2012. All comments cleared. UNIDO understands the PPG must
		be completed in sufficient time to meet all GEF cycle requirements.
	4. Other comments	
Review Date (s)	First review*	December 21, 2011
	Additional review (as necessary)	March 26, 2012

^{*} This is the first time the Program Manager provides full comments for the project. Subsequent follow-up reviews should be recorded. For specific comments for each section, please insert a date after comments.