



**PROJECT PREPARATION GRANT (PPG)**

**PROJECT TYPE: Full-sized Project**

**TYPE OF TRUST FUND: GEF Trust Fund**

**Submission date: 08/28/2012**

**GEF PROJECT ID: 5063**

**GEF AGENCY PROJECT ID: 5137**

**COUNTRY(IES): Iraq**

**PROJECT TITLE: Catalysing The Use Of Solar Photovoltaic Energy**

**GEF AGENCY(IES): UNDP, (select), (select)**

**GEF FOCAL AREA(s): Climate Change**

**A. PROJECT PREPARATION TIMEFRAME**

Start date of PPG	12/01/2012
Completion date of PPG	08/31/2013

**B. PROPOSED PROJECT PREPARATION ACTIVITIES (\$)**

<p>Describe the PPG activities and justifications:</p> <p>The proposed project focuses on catalyzing the development and use of solar photovoltaic energy in Iraq, taking advantage of an extremely high level of irradiance throughout most of the country, most of the year, and addressing the fact that the country is not yet organized for accelerated growth in solar power service delivery. Although some solar technology development and piloting has been done in various locations in Iraq, a coherent strategy and widespread application of the most beneficial solar power options are now required. This project will therefore set a clear direction for use of the most appropriate solar PV technologies, suitable for Iraqi conditions, and will catalyze consumer awareness of these technologies and facilitate the development of the industry through policy and regulatory inducements.</p> <p>A Project Preparation Grant (PPG) is required to finalise the required documentation for final CEO endorsement, particularly given the lack of baseline data currently available (Iraq is only now undertaking its first National Communication to the UNFCCC, for example), the nascent character of Government institutions and decision-making processes, and the need to bring disparate sets of (hitherto uncoordinated) stakeholders (Government, NGOs, academia and the private sector) together. While the GEF project is expected to generate significant, and sustainable, mitigation benefits for Iraq, full and diligent project preparation will be vital to the ultimate success of the project.</p> <p>Specific project preparation activities will focus on: conducting a more detailed assessment of the market for decentralised PV units and utility-scale PV electricity generation (R&amp;D for configuration of PV AC/water heating units for Iraqi climate conditions, retail, production, O&amp;M; regulatory and technological potentials and barriers for large-scale PV generation) and GHG baseline/reduction potential in Iraq; a study/dialogue on advancing the IPP concept and the technical aspects of grid inter-connection; mapping and coordinating stakeholders; and completing GEF project documentation.</p>					
List of Proposed Project Preparation Activities	Output of the PPG Activities	Trust Fund	Grant Amount (a)	Co-financing (b)	Total c = a + b
Conduct of Logical Framework Analysis	Bringing disparate (and hitherto	GEF TF	15,000	25,000	40,000

(LFA) workshop and stakeholder consultations, including conclusion of discussions on project implementation and management arrangements	uncoordinated) Government entities, civil society actors, private sector and academia together to discuss project roles and strategic objectives; finalisation of project planning matrix (defined project goal, objective, outcomes, outputs and activities, including success indicators); concluded project implementation modalities.				
Stakeholder and project mapping exercise, and detailed design of the activities associated with each project component: i.e. Component 1 (Investment in solar photovoltaic power technologies for off-grid office and residential application), Outputs 1.1-1.4; Component 2 (Encouragement of investments in solar power technology in Iraq and consumer uptake of solar appliances through policy reform and financial incentives), Outputs 2.1-2.2; and Component 3 (Facilitation of private sector capacity for technology development, innovation and servicing in the solar power industry), Outputs 3.1-3.4	Detailed mapping of stakeholder and policy/regulatory/institutional context (which is evolving rapidly); identification of ongoing and planned projects that have synergies with the GEF project; identification and finalisation of co-financing arrangements, notably formalisation of the (currently informally agreed) roles of the Ministry of Electricity, the Ministry of Science & Technology, the Anbar University RE Centre and the Najaf Model Town developers; detailed gap analysis of existing/planned project activities vis-à-vis the GEF project and development of new and/or accompanying GEF project activities.	GEF TF	15,000	40,000	55,000
Conducting a more	Detailed comparative	GEF TF	25,000	25,000	50,000

detailed market analysis for small PV system applications (notably for air conditioning) and utility-scale PV plants	technology assessment of R&D work undertaken to date (notably by MoST) on solar-powered rooftop air conditioner units configured for Iraqi conditions; market context and capabilities for PV AC (demand-side potential and building/consumer issues, supply-side assembly, construction and retail potential and barriers); economic analysis of market conditions; technological and regulatory options for utility-scale PV electricity generation; GHG reduction analysis.				
Conducting a study and structured stakeholder dialogue on advancing the IPP concept and the technical aspects of grid inter-connection	Detailed assessment of the technical, policy, regulatory and economic requirements for successful implementation of the IPP modality (including relevant provisions required for inter-connection in the Grid Code), combined with an assessment of the barrier removal and policy actions required to achieve these requirements in the Iraqi context.	GEF TF	25,000	25,000	50,000
Finalising the UNDP Project Document and CEO Endorsment Request with related additional analysis and information gathering	Finalized UNDP Project Document and CEO Endorsment Request.	GEF TF		35,000	35,000
<b>Total Project Preparation Financing</b>			<b>80,000</b>	<b>150,000</b>	<b>230,000</b>

**C. FINANCING PLAN SUMMARY FOR PROJECT PREPARATION GRANT: (\$)**

	<b>Project Preparation</b>	<b>Agency Fee</b>
Grant Amount	80,000	8,000
Co-financing	150,000	
<b>Total</b>	230,000	8,000

**D. PPG AMOUNT REQUESTED BY AGENCY(IES), FOCAL AREA(S) AND COUNTRY(IES)<sup>1</sup>: N.A.**

<sup>1</sup> No need to provide information for this table if it is a single focal area, single country and single GEF Agency project.


**E. PPG BUDGET**

<b>Cost Items</b>	<b>Total Estimated Person Weeks for Grant (PW)</b>	<b>Grant Amount (\$)</b>	<b>Co-financing (\$)</b>	<b>Total (\$)</b>
Local consultants *	11.00	22,000	60,000	82,000
International consultants*	8.00	48,000	25,000	73,000
Travel		6,000	10,000	16,000
Miscellaneous (e.g. workshop organisation, office facilities)		4,000	5,000	9,000
Baseline market analysis			50,000	50,000
<b>Total PPG Budget</b>		80,000	150,000	230,000

\* Annex A for Consultant cost details should be prepared first before completing this table. See notes on Annex A for the required detailed information. This table is the sum of all local and international consultants presented in Annex A.

**F. GEF AGENCY(IES) CERTIFICATION**

This request has been prepared in accordance with GEF policies and procedures and meets the GEF LDCF/SCCF Trust Fund criteria for project identification and preparation.

Agency Coordinator, Agency Name	Signature	Date (Month, day, year)	Project Contact Person	Telephone	Email Address
Yannick Glemarec UNDP/GEF Executive Coordinator		August 28, 2012	Robert Kelly Regional Technical Advisor EITT	+263 4884 580	<a href="mailto:robert.kelly@undp.org">robert.kelly@undp.org</a>

**Annex A**

**Consultants Financed by the Project Preparation Grant (PPG)**

<b>Type of Consultant</b>	<b>Position / Titles</b>	<b>\$/ Person Week<sup>1</sup></b>	<b>Estimated PWs<sup>2</sup></b>	<b>Tasks to be Performed</b>
Local	Solar Energy Expert	2000	11.00	Detailed comparative technology assessment of R&D work undertaken to date (notably by MoST) on solar-powered rooftop air conditioner/water heating units configured for Iraqi conditions; market context and capabilities for PV AC/water heating (demand-side potential and building/consumer issues, supply-side assembly, construction and retail potential and barriers); economic analysis of market conditions; technological and regulatory options for utility-scale PV electricity generation; IPP study and stakeholder dialogue, including assessment of technical, policy, regulatory and economic factors and a comparative mapping of these requirements against the current Iraq context; GHG reduction analysis.
International	Project Formulation Expert	6000	8.00	Updated baseline and IPP analysis, project logframe (including facilitation of the LFA workshop), risk and GHG reduction analysis, detailed project budget, implementation and financing arrangements, terms of reference of the key project experts and analysis and other key requirements.

<sup>1</sup>Provide dollar amount per person week

<sup>2</sup>Provide person weeks needed to carry out the task