



**REQUEST FOR PROJECT PREPARATION GRANT (PPG)**  
**PROJECT TYPE: FULL SIZE PROJECT**  
**THE GEF TRUST FUND**

**Submission Date:** 5 June 2009  
**Resubmission Date:** 1 December 2009

**GEF PROJECT ID:** 3953  
**GEF AGENCY PROJECT ID:** PIMS 4223  
**COUNTRY(IES):** Indonesia  
**PROJECT TITLE:** Wind Hybrid Power Generation (WHyPGen) Market Development Initiatives  
**GEF AGENCY(IES):** United Nations Development Programme (UNDP)  
**OTHER EXECUTING PARTNER(S):** In Indonesia - Agency for Assessment & Application of Technology (BPPT)  
**GEF FOCAL AREA(s):** Climate Change  
**GEF-4 STRATEGIC PROGRAM(s):** Renewable Energy (see preparation guidelines section on exactly what to write)  
**NAME OF PARENT/PROGRAM/UMBRELLA PROJECT (if applicable):** N.A.

**A. PROJECT PREPARATION TIMEFRAME**

Start date of PPG	February 2010
Completion date of PPG	August 2010

**B. PAST PROJECT PREPARATION ACTIVITIES (\$) - NONE**

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

Describe the PPG activities and justifications: The PPG activities are as follows:

1. Review of experiences wind energy development in Indonesia – This is to determine the baseline situation in regards to wind energy development and utilization in Indonesia, including previous, ongoing and planned initiatives, particularly on WHyPGen applications.
2. Logical framework analysis – To define the project goal, objective, outcomes, outputs and activities. It will basically validate and possibly improve the preliminary project framework presented in the PIF.
3. WHyPGen technology application assessments – This is to basically learn about the experiences in WHyPGen applications in other countries particularly those with similar wind regimes and RE policy frameworks as Indonesia.
4. Detailed Design of Project Components & Activities – Designing the agreed project activities from the logical framework analysis. As part of the design of Component 1 and 2 activities, a comprehensive analysis of the wind energy resource in the country will be carried out, and wherever the resource can potentially supplant diesel fuel use for stationary energy uses (mainly power generation), the most appropriate and cost-effective use of the incremental GEF support will be indentified. This will mainly be in the removal of barriers to wind hybrid energy system development and application in wind resource rich areas of the country where these can be cost-effectively be carried out on a commercial basis.
5. Coordination Mechanisms and Other Institutional Work – This is to confirm, among others the institutional and management arrangements for the project implementation, agreement on the implementation and monitoring of co-financed activities, and commitments for co-financing
6. Preparation of GEF Project Document – For drafting the project document for review by UNDP and GEF
7. Finalization of the GEF Project Document & CEO Endorsement Request – For preparing the final ProDoc and CEO Endorsement Request incorporating the comments/recommendations from the GEFSec, GEF Council members, STAP, etc.

List of Proposed Project Preparation Activities	Output of the PPG Activities	Project Preparation Amount (a)	Co-financing (b)	Total c = a + b
1. Review of Experiences in Wind Energy development in Indonesia	Compilation of data on the past, present and planned initiatives on wind energy development, in general, and WHyPGen development and application in particular	10,000	5,000	15,000
2. Logical Framework Analysis	Defined project goal, objective, outcomes, outputs and activities, including success indicators, as well as delineation of responsibilities among the stakeholders	30,000	2,600	32,600
3. WHyPGen Technology Application Assessments	Evaluation of WHyPGen applications in other countries particularly those with similar wind regimes and RE policy frameworks as Indonesia	20,000	2,400	22,400
4. Detailed Design of Project Components & Activities	Detailed design of the project activities based on the project log frame	38,500	16,000	54,500
5. Coordination Mechanisms and Other Institutional Work	Completed agreements on the project implementation arrangements, co-financed baseline activities, and commitments for co-financing	1,500	7,400	8,900
6. Preparation of GEF Project Document	Draft Project Document	0	2,000	2,000
7. Finalization of the GEF Project Document & CEO Endorsement Request	Final Project Document & CEO Endorsement Request	0	2,000	2,000
<b>Total Project Preparation Cost</b>		<b>100,000</b>	<b>37,400</b>	<b>137,400</b>

#### D. FINANCING PLAN SUMMARY FOR PROJECT PREPARATION GRANT: (\$)

	Project Preparation	Agency Fee
GEF financing	100,000	10,000
Co-financing	37,400	
<b>Total</b>	<b>137,400</b>	<b>10,000</b>

#### E. PPG REQUESTED BY AGENCY(IES), FOCAL AREA(S) AND COUNTRY(IES)<sup>1</sup> – N.A.

## F. PPG BUDGET REQUEST

Cost Items	Total Estimated Person Weeks for GEF Grant (PW)	GEF (\$)	Co-financing (\$)	Total (\$)
Local consultants *	22	22,000	16,000	38,000
International consultants*	13	52,000	0	52,000
Travel		8,000	8,000	16,000
Consultation Meetings		0	10,000	10,000
WE Market Reports		4,000	1,000	5,000
Workshops		14,000	0	14,000
Communications		0	2,400	2,400
<b>Total PPG Budget</b>		<b>100,000</b>	<b>37,000</b>	<b>137,400</b>

\*Annex A for Consultant cost details should be prepared first before completing this table. See notes on Annex A for the required detailed information.

## G. GEF AGENCY(IES) CERTIFICATION

This request has been prepared in accordance with GEF policies and procedures and meets the GEF 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	<i>Y. Glemarec</i>	12/01/2009	Manuel L. Soriano	+66-2-2882720	<a href="mailto:manuel.soriano@undp.org">manuel.soriano@undp.org</a>

**Annex A**

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

Position / Titles	\$/ Person Week <sup>1</sup>	Estimated PWS <sup>2</sup>	Tasks to be Performed
<b>Local</b>			
CC Project Development Expert	1,000	15	Conduct of survey and desk research on the wind energy development initiatives in Indonesia; Research on the wind energy market (regional and global); Forecasting of local wind energy market trends; Research on plans/programs and policies on RE technology system component manufacturing; participate in LFA and project design.
Wind Energy System Expert	1,000	7	Assessment of the wind energy systems, in general, and WHyPGen technology applications, in particular in other countries (developed and developing) especially those which have similar wind regimes as in Indonesia. Assessment of the interest/willingness of local manufacturers to produce WHyPGen system components, conduct of desk survey of foreign WHyPGen systems, recommendations for improvement of existing wind energy systems in Indonesia.
<b>International</b>			
Wind Energy System Expert	4,000	4	Assessment of the potential approaches in the development and application of wind power systems in Indonesia, including potential improvements to any existing systems in the country and in other countries; Assessment of the wind resource assessments that are being done in the country; Identification and design of pilot WHyPGen system installations to be showcased under the project; Estimation of potential GHG emissions from installed WHyPGen systems.
Wind Energy System Design & Engineering Expert	4,000	4	Assessment of the performance of existing installed wind energy systems in the country; Assessment of the potential improvements that can be done, including the technology needs; Assessment of the current capacity of local manufacturers to produce WHyPGen system components; Identification and design of pilot WHyPGen production and project activity design.
CC Project Development and Management Expert	4,000	5	Responsible for detailed analysis of cost-effectiveness of the project, facilitation of the LFA, and review of the design of project outcomes and outputs, as well as success indicators and targets, means of verification and assumptions/risks.

<sup>1</sup> Or person month, if applicable. Please indicate clearly.

<sup>2</sup> Provide weeks or months as appropriate that corresponds to the rate provided in the previous column.