

PROJECT IDEA NOTE (SIMPLIFIED)**A. Project description, type, location and schedule****Name of Project:** *Agricultural Residue Energy Production*

Objectives of the project	<ul style="list-style-type: none"> • Produce low cost electricity for the community. • Avoidance the use of fuelwood • Reduce emission from diesel generator
Project description and proposed activities	<i>The project will produce electricity and distribute to 2 districts about 6000 households. The capacity of the plant is 1.2 MW. Cashew nut shell, rice husk, and other agricultural residues will be used to produce electricity.</i>
Technology to be employed	<i>Electricity generation using gasified system</i>

Project developer	
Name of the project developer	Khmer Agricultural Product
Organizational category	Private company
Summary of the relevant experience of the project developer	Visited some projects in China, India, and Thailand
Address	Korkoh Vilag, Trorpong Prah Commune, Preychhor District, Kompong Cham Provinve, Cambodia
Contact person	Mr. Banh Leng
Telephone / fax	855-12-894752, Tel/Fax: 855-42-340505
E-mail and web address, if any	
Project sponsors	
<i>(List and provide the following information for all project sponsors)</i>	
Name of the project sponsor	
Organizational category	Government / Government agency / Municipality / Private company / Non Governmental Organization / <i>(mention what is applicable)</i>
Address (include web address, if any)	Address, PO Box, City, Country
Main activities	
Greenhouse gases targeted	Emission of CO ₂ from diesel generators
Location of the project	Prey Chhor District, Kampong Cham Province, Cambodia
Expected schedule	
List activities/studies already completed	
Project start (construction) date	Early 2005
Project lifetime	27 Years

B. Expected environmental and social benefits

Baseline scenario	The project will replace diesel generators in the two districts with electricity generation from agricultural residues.
Estimate of Greenhouse Gases abated (in metric tons of CO₂-equivalent)	<p>Annual: Over crediting period: (assume 10 years) Annual Energy Outputs = $1.2 \times 1000 \times 8760 \times 20\%$ = 2102400 kWh</p> <p>Annual Energy Baseline = $2102400 \text{ kWh/y} / (1-0.1)$ = 2336000 kWh/y</p> <p>Annual Baseline GHG Emission = $2336000 \text{ kWh/y} \times 0.9 \text{ kg CO}_2/\text{kwh}$ = 2102400 kg CO₂e/y = 2102.4 tCO₂e/y</p> <p>For 10 Year emission reduction = $2102.4 \text{ tCO}_2\text{e /y} \times 10$ = 21024 tCO₂e</p> <p>For 21 Year emission reduction = $2102.4 \text{ tCO}_2\text{e /y} \times 21$ = 44150.4 tCO₂e</p>
Specific global & local environmental benefits	
Local benefits	<ul style="list-style-type: none"> • Soil improvement through promoting agro-industry • Reduce GHG emissions • Provide hygiene to the communities
Global benefits	<ul style="list-style-type: none"> • Reduce global warming
Socio-economic aspects What social and economic effects can be attributed to the project and which would not have occurred in a comparable situation without that project?	<ul style="list-style-type: none"> • Job creation • Poverty reduction • Improve living standard of the communities • Promote SMEs
Environmental strategy/ priorities of the Host Country	Cambodian ratified the Kyoto Protocol on 4 July 2002.

Project Idea Note

Name of Project
Date of Submission

C. Finance

Total project cost estimates	Apro. 1 US\$ million
Sources of finance	60% own financing 40 % from bank (not sure)
Revenues from Certified Emission Reductions (CERs)	
Annual	10512 US\$
Over 10 years	105120 US\$
Over 21 years	220752 US\$