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Validation Report

EDF Trading Limited

VALIDATION OF THE CDM-PROJECT:
SHANDONG GAOTANG 30MW BIOMASS POWER
GENERATION PROJECT

REPORT NO. 1041284

2007, October 02

TÜV SÜD Industrie Service GmbH
Carbon Management Service
Westendstr. 199 - 80686 Munich – GERMANY

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Subject: Validation of a CDM Project			
Accredited TÜV SÜD Unit: TÜV SÜD Industrie Service GmbH Certification Body "climate and energy" Westendstr. 199 - 80686 Munich FEDERAL REPUBLIC OF GERMANY		TÜV SÜD Contract Partner: Jiangsu TÜV Product Service Ltd.; Beijing Branch, Unit 918, Landmark Tower 2, 8 North Dongsanhuan Road 100004 Beijing, P. R. China	
Client: EDF Trading Limited 71 High Holborn, London WC1V 6ED, United Kingdom		Project Site(s): Gaotang Economic Development Zone, which is 5 km to the northwest of Gaotang county, in the northwest of Shandong province, People's Republic of China	
Project Title: Shandong Gaotang 30MW Biomass Power Generation Project			
Applied Methodology / Version: ACM0006 version 04		Scope(s): 1	
First PDD Version: Date of issuance: 2007-04-10 Version No.: 03 Starting Date of GSP 2007-04-19		Final PDD version: Date of issuance: 2007-09-24 Version No.: 05	
Estimated Annual Emission Reduction:		140 695 tons CO _{2e}	
Assessment Team Leader: Dr. Sven Kolmetz		Further Assessment Team Members: Konrad Tausche Xiaoyan Liu Xiaoying Chen	
Summary of the Validation Opinion: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> The review of the project design documentation and the subsequent follow-up interviews have provided TÜV SÜD with sufficient evidence to determine the fulfilment of all stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM. Hence TÜV SÜD will recommend the project for registration by the CDM Executive Board in case letters of approval of all Parties involved will be available before the expiring date of the applied methodology(ies) or the applied methodology version respectively. <input type="checkbox"/> The review of the project design documentation and the subsequent follow-up interviews have not provided TÜV SÜD with sufficient evidence to determine the fulfilment of all stated criteria. Hence TÜV SÜD will not recommend the project for registration by the CDM Executive Board and will inform the project participants and the CDM Executive Board on this decision. 			

Abbreviations

ACM	Approved Consolidated Methodology
AM	Approved Methodology
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CR	Clarification Request
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
EIA / EA	Environmental Impact Assessment / Environmental Assessment
ER	Emission reduction
GHG	Greenhouse gas(es)
KP	Kyoto Protocol
MP	Monitoring Plan
NGO	Non Governmental Organisation
PDD	Project Design Document
PP	Project Participant
TÜV SÜD	TÜV SÜD Industrie Service GmbH
UNFCCC	United Nations Framework Convention on Climate Change
VVM	Validation and Verification Manual

Table of Contents	Page
1 INTRODUCTION	4
1.1 Objective	4
1.2 Scope	4
2 METHODOLOGY	5
2.1 Appointment of the Assessment Team	7
2.2 Review of Documents	8
2.3 Follow-up Interviews	8
2.4 Resolution of Clarification and Corrective Action Requests	9
2.5 Internal Quality Control	9
3 SUMMARY OF FINDINGS	10
4 COMMENTS BY PARTIES, STAKEHOLDERS AND NGOS	12
5 VALIDATION OPINION	13

Annex 1: Validation Protocol

Annex 2: Information Reference List

1 INTRODUCTION

1.1 Objective

The validation objective is an independent assessment by a Third Party (Designated Operational Entity = DOE) of a proposed project activity against all defined criteria set for the registration under the Clean Development Mechanism (CDM). Validation is part of the CDM project cycle and will finally result in a conclusion by the executing DOE whether a project activity is valid and should be submitted for registration to the CDM-EB. The ultimate decision on the registration of a proposed project activity rests at the CDM Executive Board and the Parties involved.

The project activity discussed by this validation report has been submitted under the project title:
Shandong Gaotang 30MW Biomass Power Generation Project

1.2 Scope

The scope of any assessment is defined by the underlying legislation, regulation and guidance given by relevant entities or authorities. In the case of CDM project activities the scope is set by:

- The Kyoto Protocol, in particular § 12
- Decision 2/CMP1 and Decision 3/CMP.1 (Marrakech Accords)
- Further COP/MOP decisions with reference to the CDM (e.g. decisions 4 – 8/CMP.1)
- Decisions by the EB published under <http://cdm.unfccc.int>
- Specific guidance by the EB published under <http://cdm.unfccc.int>
- Guidelines for Completing the Project Design Document (CDM-PDD), and the Proposed New Baseline and Monitoring Methodology (CDM-NM)
- The applied approved methodology
- The technical environment of the project (technical scope)
- Internal and national standards on monitoring and QA/QC
- Technical guideline and information on best practice

The validation is not meant to provide any consulting towards the client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the project design.

Once TÜV SÜD receives a first PDD version, it is made publicly available on the internet at TÜV SÜD's webpage as well as on the UNFCCC CDM-webpage for starting a 30 day global stakeholder consultation process (GSP). In case of any request a PDD might be revised (under certain conditions the GSP will be repeated) and the final PDD will form the basis for the final evaluation as presented by this report. Information on the first and on the final PDD version is presented at page 1.

The only purpose of a validation is its use during the registration process as part of the CDM project cycle. Hence, TÜV SÜD can not be held liable by any party for decisions made or not made based on the validation opinion, which will go beyond that purpose.

2 METHODOLOGY

The project assessment aims at being a risk based approach and is based on the methodology developed in the Validation and Verification Manual, an initiative of Designated and Applicant Entities, which aims to harmonize the approach and quality of all such assessments.

In order to ensure transparency, a validation protocol was customised for the project. TÜV SÜD developed a “cook-book” for methodology-specific checklists and protocol based on the templates presented by the Validation and Verification Manual. The protocol shows, in a transparent manner, criteria (requirements), the discussion of each criterion by the assessment team and the results from validating the identified criteria. The validation protocol serves the following purposes:

- It organises, details and clarifies the requirements a CDM project is expected to meet;
- It ensures a transparent validation process where the validator will document how a particular requirement has been validated and the result of the validation.

The validation protocol consists of three tables. The different columns in these tables are described in the figure below.

The completed validation protocol is enclosed in Annex 1 to this report.

Validation Protocol Table 1: Conformity of Project Activity and PDD				
Checklist Topic / Question	Reference	Comments	PDD in GSP	Final PDD
<i>The checklist is organised in sections following the arrangement of the applied PDD version. Each section is then further subdivided. The lowest level constitutes a checklist question / criterion.</i>	<i>Gives reference to documents where the answer to the checklist question or item is found in case the comment refers to documents other than the PDD.</i>	<i>The section is used to elaborate and discuss the checklist question and/or the conformance to the question. It is further used to explain the conclusions reached. In some cases sub-checklist are applied indicating yes/no decisions on the compliance with the stated criterion. Any Request has to be substantiated within this column</i>	<i>Conclusions are presented based on the assessment of the first PDD version. This is either acceptable based on evidence provided (✓), or a Corrective Action Request (CAR) due to non-compliance with the checklist question (See below). Clarification Request (CR) is used when the validation team has identified a need for further clarification.</i>	<i>Conclusions are presented in the same manner based on the assessment of the final PDD version.</i>

Validation Protocol Table 2: Resolution of Corrective Action and Clarification Requests			
Clarifications and corrective action requests	Ref. to table 1	Summary of project owner response	Validation team conclusion
<i>If the conclusions from table 1 are either a Corrective Action Request or a Clarification Request, these should be listed in this section.</i>	<i>Reference to the checklist question number in Table 1 where the Corrective Action Request or Clarification Request is explained.</i>	<i>The responses given by the client or other project participants during the communications with the validation team should be summarised in this section.</i>	<i>This section should summarise the validation team's responses and final conclusions. The conclusions should also be included in Table 1, under "Final PDD".</i>

In case of a denial of the project activity more detailed information on this decision will be presented in table 3.

Validation Protocol Table 3: Unresolved Corrective Action and Clarification Requests		
Clarifications and corrective action requests	Id. of CAR/CR 1	Explanation of the Conclusion for Denial
<i>If the final conclusions from table 2 results in a denial the referenced request should be listed in this section.</i>	<i>Identifier of the Request.</i>	<i>This section should present a detail explanation, why the project is finally considered not to be in compliance with a criterion.</i>

2.1 Appointment of the Assessment Team

According to the technical scopes and experiences in the sectoral or national business environment TÜV SÜD has composed a project team in accordance with the appointment rules of the TÜV SÜD certification body “climate and energy”. The composition of an assessment team has to be approved by the Certification Body ensuring that the required skills are covered by the team. The Certification Body TÜV SÜD operates four qualification levels for team members that are assigned by formal appointment rules:

- Assessment Team Leader (ATL)
- Greenhouse Gas Auditor (GHG-A)
- Greenhouse Gas Auditor Trainee (T)
- Experts (E)

It is required that the sectoral scope linked to the methodology has to be covered by the assessment team.

The validation team was consisting of the following experts (the responsible Assessment Team Leader is written in bold letters):

Name	Qualification	Coverage of technical scope	Coverage of sectoral expertise	Host country experience
Dr. Sven Kolmetz	ATL	☑	☑	☑
Konrad Tausche	E	☑	☑	
Xiaoyan Liu	GHG-A	☑	☑	☑
Xiaoying Chen	T	☑		☑

Dr. Sven Kolmetz is physicist and auditor at the department “TÜV Carbon Management Service” located in the head office of TÜV Süd Industrie Service GmbH in Munich. Furthermore he is officially authorized expert in the verification of GHG emissions in the framework of the European Emission Trading Scheme. Before entering TÜV SÜD he worked as energy consultant for industrial companies and as consultant for the German Federal Government on instruments for the reduction of GHG emissions.

Konrad Tausche, the former head of department of environmental measurement technique at the Frankfurt office of TÜV SÜD Industrie Service GmbH, supports the “TÜV Carbon Management Service” in Munich since Dec. 2006. He has an academic background in physical and chemical engineering. An additional economic study was completed with the academic degree of a Master of Business Administration and Engineering (MBA and Eng.). In his experience of 15 years he verified a lot of different energy, chemical and incineration plants, emission control and mitigation projects.

Xiaoyan Liu is a Lead auditor for environmental management systems (according to ISO 14001) at Jiangsu TUV Product Service Ltd. She is based in Beijing. In her position she is responsible for the implementation of validation, verification and certifications audits for management systems. She has

received training in the CDM validation process and participated already in several CDM project assessments as an auditor.

Xiaoying Chen is an auditor for environmental management systems (according to ISO 14001) at Jiangsu TUV Product Service Ltd. She is based in Beijing. In her position she is responsible for the implementation of validation, verification and certifications audits for management systems. She was under training in the CDM validation process and participated already in several CDM project assessments.

2.2 Review of Documents

The first PDD version submitted by the client and additional background documents related to the project design and baseline were reviewed as initial step of the validation process. A complete list of all documents and proofs reviewed is attached as annex 2 to this report.

2.3 Follow-up Interviews

In the period of May 30th, 2007 TÜV SÜD performed interviews on-site with project stakeholders to confirm selected information and to resolve issues identified in the first document review. The table below provides a list of all persons interviewed in the context of this on-site visit.

Name	Organisation
Mr. Wang Wenhua	Vice general manager of "Gaotang biomass power generation Co., Ltd"
Ms. Zhu Wenya	Vice general manager of "Gaotang biomass power generation Co., Ltd"
Mr. Li Huaqiang	Manager of fuel department of "Gaotang biomass power generation Co., Ltd"
Mr. Li Weitang	Manager of integration department of "Gaotang biomass power generation Co., Ltd"
Ms. Guo Xin	Manager of CDM department of "National Bio Energy Co., Ltd"
Mr. Wang Yong	Chief leader of the daily operation team of "Gaotang biomass power generation Co., Ltd"
Mr. Wang Haifeng	Manager of safety department of "Gaotang biomass power generation Co., Ltd"
Ms. Zhao Xin	CDM manager of EDF
Mr. Sun Xu	Assistant of CDM manager of EDF

2.4 Resolution of Clarification and Corrective Action Requests

The objective of this phase of the validation is to resolve the requests for corrective actions and clarifications and any other outstanding issues which needed to be clarified for TÜV SÜD's positive conclusion on the project design. The Corrective Action Requests and Clarification Requests raised by TÜV SÜD were resolved during communication between the client and TÜV SÜD. To guarantee the transparency of the validation process, the concerns raised and responses that have been given are summarised in chapter 3 below and documented in more detail in the validation protocol in annex 1.

2.5 Internal Quality Control

As final step of a validation the validation report and the protocol have to undergo an internal quality control procedure by the Certification Body "climate and energy", i.e. each report has to be approved either by the head of the certification body or his deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one.

It rests at the decision of TÜV SÜD's Certification Body whether a project will be submitted for re-requesting registration by the EB or not.

3 SUMMARY OF FINDINGS

History of the validation process

The audit team has been provided with a draft PDD in April 2007. Based on this documentation a document review and a fact finding mission in form of an on-site audit has taken place. Afterwards the client decided to revise the PDD according to the CARs and CRs indicated in the audit process. The final PDD version submitted in September 2007 serves as the basis for the assessment presented herewith. Changes are not considered to be significant with respect to the qualification of the project as a CDM project based on the two main objectives of the CDM to achieve a reduction of anthropogenic GHG emissions by sources and to contribute to sustainable development.

Project description

The following description of the project as per PDD could be verified during the on-site audit:

The proposed Project is located in Gaotang County, Liaocheng City, Shandong Province, P.R.China with rich agricultural resources. It is one of the biggest agriculture bases in the northwest of Shandong province. The proposed project will implement biomass utilization in the province and serve as a demonstration project in China.

The project will utilize local surplus biomass residues (mainly cotton stalk) for generating electricity. The installed capacity is 30 MW and the straw-fired boiler is imported from Denmark BWE Company, which is a world leading company in biomass boilers production and biomass cogeneration. The proposed project will assist in transferring advanced biomass technology to China. It is estimated that the Project can deliver 145,000 MWh/y of electricity to the North China Grid consuming nearly 121,000 tons cotton stalk per year.

The project was approved by Shandong Development and Reformation Commission in June, 2006, and started trial operation on 29 January 2007. At the moment the project is in full operation. It will help to reduce GHG emissions from the coal-dominated power generation of North China Grid. Moreover, the project will use cotton stalk for energy generation, which will reduce the CH₄ emissions because the biomass is dumped or left to decay or burned in an uncontrolled manner in the absence of the project. The estimated annual GHG emission reductions are 140,695 tCO₂e.

Findings

All findings are summarized in Table 2 of the attached validation protocol.

The assessment team expressed 2 Clarification Requests and 20 Corrective Action Requests:

The required documents (English version of the IRR calculation excel sheet, benchmark) have been submitted to the DOE and the more formal aspects of the proposed project (crediting period etc.) have been added to the PDD finally. All of the CAR and CR were resolved.

Baseline calculation

For the BM calculation the PDD adopts modified methods agreed by the EB for the approved methodologies AM0005 and AMS I.D. because plant specific data are not available in China. The emission factor of the thermal power plants is calculated by the proportion of the emissions of coal, gas and oil times the emission factor of the best available coal, gas and oil power plant as defined and published by the Chinese DNA. The new thermal capacity installation that exceeds 20% in the last years, for which data are available, is finally assessed with this factor. The emission reductions are calculated based on the IPCC2006 values and the Chinese yearbooks 2003 – 2005 as published by the Chinese DNA on December 15th 2006. These were the latest available data at the time of PDD



Industrie Service

writing. Meanwhile the new yearbooks have been published resulting in higher emission factors. Hence, the more conservative figures used in the PDD have been accepted.

Additionality

The additionality has been evidenced by investment analysis. The benchmark used (IRR) and the IRR calculation will be uploaded together with the PDD. The basic figures of the calculation have been evidenced by the Feasibility report. The consideration of CDM before construction has been confirmed by the minute of a meeting of the board dated on January 18th, 2006.

Since all the open questions have been closed the project is in compliance with the CDM requirements.

4 COMMENTS BY PARTIES, STAKEHOLDERS AND NGOS

TÜV SÜD published the project documents on UNFCCC website by installing a link to TÜV SÜD's own website and invited comments by Parties, stakeholders and non-governmental organisations during a period of 30 days.

The following table presents all key information on this process:

webpage: http://www.netinform.de/KE/Wegweiser/Guide2_1.aspx?ID=2894&Ebene1_ID=26&Ebene2_ID=869&mode=1	
Starting date of the global stakeholder consultation process: 2007-04-19	
Comment submitted by: none	Issues raised: -
Response by TÜV SÜD: -	

5 VALIDATION OPINION

TÜV SÜD has performed a validation of the following proposed CDM project activity:

Shandong Gaotang 30MW Biomass Power Generation Project.

The review of the project design documentation and the subsequent follow-up interviews have provided TÜV SÜD with sufficient evidence to determine the fulfilment of stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM. Hence TÜV SÜD will recommend the project for registration by the CDM Executive Board.

An analysis as provided by the applied methodology demonstrates that the proposed project activity is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of emission reductions as specified within the final PDD version.

The validation is based on the information made available to us and the engagement conditions detailed in this report. The validation has been performed using a risk based approach as described above. The only purpose of this report is its use during the registration process as part of the CDM project cycle. Hence, TÜV SÜD can not be held liable by any party for decisions made or not made based on the validation opinion, which will go beyond that purpose.

Munich, 2007-10-02



Certification Body "climate and energy"
TÜV SÜD Industrie Service GmbH

Munich, 2007-10-02



Assessment Team Leader



Annex 1: Validation Protocol

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

Table 1 Conformity of Project Activity and PDD

CHECKLIST TOPIC / QUESTION		Ref.	COMMENTS	PDD in GSP	Final PDD
A. General description of project activity					
A.1. Title of the project activity					
A.1.1.	Does the used project title clearly enable to identify the unique CDM activity?	1, 2	The project is titled with the project location, the energy source and power capacity. Hence, it can be clearly identified.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.1.2.	Are there any indication concerning the revision number and the date of the revision?	1, 2	The available PDD is indicated as 03 version dated 10/04/2007. <u>Corrective Action Request No.1.</u> A revision history of the PDD should be included.	CAR1	<input checked="" type="checkbox"/>
A.1.3.	Is this consistent with the time line of the project's history?	1, 2	Yes, it is.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2. Description of the project activity					
A.2.1.	Is the description delivering a transparent overview of the project activities?	1, 2, 6	The project is not described transparently. <u>Corrective Action Request No.2.</u> Please clearly indicate what kind of biomass will be used: cotton stalk or maize stalk or others?	CAR2	<input checked="" type="checkbox"/>
A.2.2.	What proofs are available demonstrating that the project description is in compliance with the actual situation or planning?	1, 2, 6-13	The project activity is the displacement of electricity provided by the local grid (mainly from coal fired power plant) with electricity generated from biomass resources. The following data deliver evidences for the project activity: <ul style="list-style-type: none">- The power generation plant is already put into operation- Existence of vast biomass residues at collection sites and transport vehicles- Project Approval from Shandong development Reformation Committee- Environmental Impact Assessment Approval from the EPB	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION		Ref.	COMMENTS	PDD in GSP	Final PDD
			<p>of Shandong</p> <ul style="list-style-type: none"> - Feasibility Study Approval from Shandong development and reform commission - Grid Connecting Agreement with Power Supply Company of Liaocheng city <p>These data have been evidenced during the audit. The required data are delivered in the PDD. The statistical background has been reviewed with official documentation (China Electric Power Yearbooks, China Energy Statistical Yearbooks).</p> <p>But see CAR2</p>		
A.2.3.	Is the information provided by these proofs consistent with the information provided by the PDD?	1, 2	The documents are consistent with the description in the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.4.	Is all information presented consistent with details provided by further chapters of the PDD?	1, 2	The figures for the determination of the baseline scenario are identical to the figures used for the additionality discussion.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.3. Project participants					
A.3.1.	Is the form required for the indication of project participants correctly applied?	1, 2	The form is correctly applied. National Bio Energy Co., Ltd and EDF trading Limited are considered as project participants.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.3.2.	Is the participation of the listed entities or Parties confirmed by each one of them?	1, 29	<p>Open Issue</p> <p>The participation has to be confirmed by the MoC.</p>	Open Issue	<input checked="" type="checkbox"/>
A.3.3.	Is all information on participants / Parties provided in consistency with details provided by further chapters of the PDD (in particular annex 1)?	1,29	Yes, it is.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
A.4. Technical description of the project activity				
<i>A.4.1. Location of the project activity</i>				
A.4.1.1. Does the information provided on the location of the project activity allow for a clear identification of the site(s)?	1,2	The project location could be clearly identified according to the PDD including the geographical coordinates. The project activity is located in the economically developing region which is 5 km to the northwest of the Gaotang country, Shandong province.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.1.2. How is it ensured and/or demonstrated, that the project proponents can implement the project at this site (ownership, licenses, contracts etc.)?	1,2,6-11	See A.2.2. The validator has checked the necessary licenses and can confirm that they are available from EPB of Shandong province and NDRC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>A.4.2. Category(ies) of project activity</i>				
A.4.2.1. To which category(ies) does the project activity belonging to? Is the category correctly identified and indicated?	1,2	The project falls into scope 1—energy industries.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>A.4.3. Technology to be employed by the project activity</i>				
A.4.3.1. Does the technical design of the project activity reflect current good practices?	1,2,6	<u>Corrective Action Request No.3.</u> Please describe the technology implemented by the project activity in a transparent manner and give the detailed information about the key points especially regarding the electricity generation and the boiler fuel.	CAR3	<input checked="" type="checkbox"/>
A.4.3.2. Does the description of the technology to be applied provide sufficient and transparent input/ information to evaluate its impact on the greenhouse gas balance?	1,2	See CAR3	See-CAR3	<input checked="" type="checkbox"/>
A.4.3.3. Does the implementation of the project activity require any technology transfer from annex-I-countries to the host country(ies)?	1,2	Yes, the implementation of the proposed project will facilitate the technology transfer from developed countries to China.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
A.4.3.4. Is the technology implemented by the project activity environmentally safe?	1,2,6	Yes, the main possible pollution is the flue gas during the operational period, flue gas would be treated before emitted to the atmosphere, waste gas emissions from the project is far lower than the national emission standard. This is verified by the approval of EIA. And the relating documents have been reviewed by the auditor.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.5. Is the information provided in compliance with actual situation or planning?	1,2,6	Yes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.6. Does the project use state of the art technology and / or does the technology result in a significantly better performance than any commonly used technologies in the host country?	1,2	As it is a new Danish boiler it is state of the art and it is better than the commonly used coal-fired power plants.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.7. Is the project technology likely to be substituted by other or more efficient technologies within the project period?	1,2	The probability that the technology will be replaced is considered to be very low, because the equipments were just installed and the lifetime of this equipment will probably exceed the crediting period.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.8. Does the project require extensive initial training and maintenance efforts in order to be carried out as scheduled during the project period?	1,2,18	Yes. Biomass generation technology is not common practice in China. Therefore, additional initial training is needed to guarantee high reliability during the life time of the project.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.9. Is information available on the demand and requirements for training and maintenance?	1,2,18	<p>The training materials for power plant staffs include the operating information and the CDM monitoring regulations etc, these documents have been reviewed by the auditor.</p> <p><u>Corrective Action Request No.4.</u></p> <p>Please deliver the training schedule and shortly describe it in the PDD.</p>	CAR4	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
A.4.3.10. Is a schedule available for the implementation of the project and are there any risks for delays?	1,2	The project is under full operation now, so there is no risk for delay.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.4. Estimated amount of emission reductions over the chosen crediting period				
A.4.4.1. Is the form required for the indication of projected emission reductions correctly applied?	1,2	<u>Corrective Action Request No.5.</u> Chapter A.4.4, year 2007 and 2014, the emission reductions can not be written with comas. 0.5 ton is not allowed.	CAR5	<input checked="" type="checkbox"/>
A.4.4.2. Are the figures provided consistent with other data presented in the PDD?	1,2	<u>Corrective Action Request No.6.</u> The crediting period will start after the registration of this project, so the starting and the ending date should be consistent with the project time line.	CAR6	<input checked="" type="checkbox"/>
A.4.5. Public funding of the project activity				
A.4.5.1. Is the information provided on public funding provided in compliance with the actual situation or planning as available by the project participants?	1,2,1 2	Yes. According to the business plan reviewed by the auditor, there is no public funding necessary; all costs are covered by bank loans and private equity.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.5.2. Is all information provided consistent with the details given in remaining chapters of the PDD (in particular annex 2)?	1,2	The statements are consistent within the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B. Application of a baseline and monitoring methodology				
B.1. Title and reference of the approved baseline and monitoring methodology				
B.1.1. Are reference number, version number, and title of the baseline and monitoring methodology clearly indicated?	1,2	The approved methodology ACM0006 (version 04) in combination with ACM0002 (version 06) and additionality tool version 3 is used.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD										
B.1.2. Is the applied version the most recent one and / or is this version still applicable?	1,2	Yes, it is.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
B.2. Justification of the choice of the methodology and why it is applicable to the project activity														
B.2.1. Is the applied methodology considered the most appropriate one?	1,2	Yes. The approved methodology ACM0006 is exactly applicable to the proposed project.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
B.2.2. Is the project activity clear according to the PDD?	1,2	<table><tr><th>Applicability checklist</th><th>Yes / No</th></tr><tr><td>Greenfield project?</td><td>Yes</td></tr><tr><td>Power capacity expansion project?</td><td>No</td></tr><tr><td>Energy efficiency improvement project?</td><td>No</td></tr><tr><td>Fuel switch project?</td><td>No</td></tr></table>	Applicability checklist	Yes / No	Greenfield project?	Yes	Power capacity expansion project?	No	Energy efficiency improvement project?	No	Fuel switch project?	No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Applicability checklist	Yes / No													
Greenfield project?	Yes													
Power capacity expansion project?	No													
Energy efficiency improvement project?	No													
Fuel switch project?	No													
B.2.3. Applicability Criterion 1: No other biomass types than biomass residues are used and these residues are the predominant fuel.	1,2	<table><tr><th>Applicability checklist</th><th>Yes / No</th></tr><tr><td>Criterion discussed in the PDD?</td><td>Yes</td></tr><tr><td>Compliance provable?</td><td>Yes</td></tr><tr><td>Evidences provided in the PDD?</td><td>No</td></tr><tr><td>Compliance verified?</td><td>No</td></tr></table> <p><u>Corrective Action Request No.7.</u> Please clearly describe which kind of co-fired fuel is used for the project activity.</p>	Applicability checklist	Yes / No	Criterion discussed in the PDD?	Yes	Compliance provable?	Yes	Evidences provided in the PDD?	No	Compliance verified?	No	CAR7	<input checked="" type="checkbox"/>
Applicability checklist	Yes / No													
Criterion discussed in the PDD?	Yes													
Compliance provable?	Yes													
Evidences provided in the PDD?	No													
Compliance verified?	No													
B.2.4. Criterion 2: For projects that use biomass residues from a production process (e.g. production of sugar or wood panel boards), the implementation of the project shall not result	1,2	<table><tr><th>Applicability checklist</th><th>Yes / No</th></tr><tr><td>Criterion discussed in the PDD?</td><td>Yes</td></tr><tr><td>Compliance provable?</td><td>Yes</td></tr><tr><td>Evidences provided in the PDD?</td><td>Yes</td></tr></table>	Applicability checklist	Yes / No	Criterion discussed in the PDD?	Yes	Compliance provable?	Yes	Evidences provided in the PDD?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Applicability checklist	Yes / No													
Criterion discussed in the PDD?	Yes													
Compliance provable?	Yes													
Evidences provided in the PDD?	Yes													

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION		Ref.	COMMENTS		PDD in GSP	Final PDD										
in an increase of the processing capacity of raw input (e.g. sugar, rice, logs, etc.) or in other substantial changes (e.g. product change) in this process			<table><tr><td>Compliance verified?</td><td>Yes</td></tr></table>		Compliance verified?	Yes										
Compliance verified?	Yes															
B.2.5.	Criterion 3: The biomass residues used by the project facility should not be stored for more than one year;	1,2	<p><u>Corrective Action Request No.8.</u> Please describe the collection procedure of cotton stalk based on the real project activity.</p> <table><tr><td>Applicability checklist</td><td>Yes / No</td></tr><tr><td>Criterion discussed in the PDD?</td><td>Yes</td></tr><tr><td>Compliance provable?</td><td>Yes</td></tr><tr><td>Evidences provided in the PDD?</td><td>No</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table>		Applicability checklist	Yes / No	Criterion discussed in the PDD?	Yes	Compliance provable?	Yes	Evidences provided in the PDD?	No	Compliance verified?	Yes	CAR8	<input checked="" type="checkbox"/>
Applicability checklist	Yes / No															
Criterion discussed in the PDD?	Yes															
Compliance provable?	Yes															
Evidences provided in the PDD?	No															
Compliance verified?	Yes															
B.2.6.	Criterion 4: No significant energy quantities, <i>except from transportation or mechanical treatment of the biomass residues</i> , are required to prepare the biomass residues for fuel combustion	1,2	<p><u>Corrective Action Request No.9.</u> The electricity used for the preparation of the biomass residue from the 8 biomass residue storage sites should be taken into account of the project emission. E.g. the shredders and other machines used for the preparation of the biomass residue.</p> <table><tr><td>Applicability checklist</td><td>Yes / No</td></tr><tr><td>Criterion discussed in the PDD?</td><td>No</td></tr><tr><td>Compliance provable?</td><td>No</td></tr><tr><td>Evidences provided in the PDD?</td><td>No</td></tr><tr><td>Compliance verified?</td><td>No</td></tr></table>		Applicability checklist	Yes / No	Criterion discussed in the PDD?	No	Compliance provable?	No	Evidences provided in the PDD?	No	Compliance verified?	No	CAR9	<input checked="" type="checkbox"/>
Applicability checklist	Yes / No															
Criterion discussed in the PDD?	No															
Compliance provable?	No															
Evidences provided in the PDD?	No															
Compliance verified?	No															

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD										
B.3. Description of the sources and gases included in the project boundary														
B.3.1. Source: Grid electricity generation Gas(es): CO2 Type: Baseline Emissions	1,2	<table><tr><td>Boundary checklist</td><td>Yes / No</td></tr><tr><td>Source and gas(es) discussed in the PDD?</td><td>Yes</td></tr><tr><td>Inclusion / exclusion justified?</td><td>Yes</td></tr><tr><td>Explanation / Justification sufficient?</td><td>Yes</td></tr><tr><td>Consistency with monitoring plan?</td><td>Yes</td></tr></table>	Boundary checklist	Yes / No	Source and gas(es) discussed in the PDD?	Yes	Inclusion / exclusion justified?	Yes	Explanation / Justification sufficient?	Yes	Consistency with monitoring plan?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No													
Source and gas(es) discussed in the PDD?	Yes													
Inclusion / exclusion justified?	Yes													
Explanation / Justification sufficient?	Yes													
Consistency with monitoring plan?	Yes													
B.3.2. Source: Heat generation Gas(es): CO2 Type: Baseline Emissions	1,2	<table><tr><td>Boundary checklist</td><td>Yes / No</td></tr><tr><td>Source and gas(es) discussed in the PDD?</td><td>N/A</td></tr><tr><td>Inclusion / exclusion justified?</td><td>N/A</td></tr><tr><td>Explanation / Justification sufficient?</td><td>N/A</td></tr><tr><td>Consistency with monitoring plan?</td><td>N/A</td></tr></table>	Boundary checklist	Yes / No	Source and gas(es) discussed in the PDD?	N/A	Inclusion / exclusion justified?	N/A	Explanation / Justification sufficient?	N/A	Consistency with monitoring plan?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No													
Source and gas(es) discussed in the PDD?	N/A													
Inclusion / exclusion justified?	N/A													
Explanation / Justification sufficient?	N/A													
Consistency with monitoring plan?	N/A													
B.3.3. Source: Uncontrolled burning or decay of surplus biomass residues Gas(es): CH4 Type: Baseline Emissions	1,2	<table><tr><td>Boundary checklist</td><td>Yes / No</td></tr><tr><td>Source and gas(es) discussed in the PDD?</td><td>Yes</td></tr><tr><td>Inclusion / exclusion justified?</td><td>Yes</td></tr><tr><td>Explanation / Justification sufficient?</td><td>Yes</td></tr><tr><td>Consistency with monitoring plan?</td><td>Yes</td></tr></table>	Boundary checklist	Yes / No	Source and gas(es) discussed in the PDD?	Yes	Inclusion / exclusion justified?	Yes	Explanation / Justification sufficient?	Yes	Consistency with monitoring plan?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No													
Source and gas(es) discussed in the PDD?	Yes													
Inclusion / exclusion justified?	Yes													
Explanation / Justification sufficient?	Yes													
Consistency with monitoring plan?	Yes													
B.3.4. Source: On-site fossil fuel or electricity consumption Gas(es): CO2 Type: Project Emissions	1,2	<table><tr><td>Boundary checklist</td><td>Yes / No</td></tr><tr><td>Source and gas(es) discussed in the PDD?</td><td>Yes</td></tr><tr><td>Inclusion / exclusion justified?</td><td>Yes</td></tr><tr><td>Explanation / Justification sufficient?</td><td>Yes</td></tr></table>	Boundary checklist	Yes / No	Source and gas(es) discussed in the PDD?	Yes	Inclusion / exclusion justified?	Yes	Explanation / Justification sufficient?	Yes	See CAR7	<input checked="" type="checkbox"/>		
Boundary checklist	Yes / No													
Source and gas(es) discussed in the PDD?	Yes													
Inclusion / exclusion justified?	Yes													
Explanation / Justification sufficient?	Yes													

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION		Ref.	COMMENTS		PDD in GSP	Final PDD										
			Consistency with monitoring plan? See CAR7													
B.3.5.	Source: Off-site transportation of biomass residues Gas(es): CO2 Type: Project Emissions	1,2	<table><tr><td>Boundary checklist</td><td>Yes / No</td></tr><tr><td>Source and gas(es) discussed in the PDD?</td><td>Yes</td></tr><tr><td>Inclusion / exclusion justified?</td><td>Yes</td></tr><tr><td>Explanation / Justification sufficient?</td><td>Yes</td></tr><tr><td>Consistency with monitoring plan?</td><td>Yes</td></tr></table>		Boundary checklist	Yes / No	Source and gas(es) discussed in the PDD?	Yes	Inclusion / exclusion justified?	Yes	Explanation / Justification sufficient?	Yes	Consistency with monitoring plan?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No															
Source and gas(es) discussed in the PDD?	Yes															
Inclusion / exclusion justified?	Yes															
Explanation / Justification sufficient?	Yes															
Consistency with monitoring plan?	Yes															
B.3.6.	Source: Combustion of biomass residues Gas(es): CH4 Type: Project Emissions	1,2	<table><tr><td>Boundary checklist</td><td>Yes / No</td></tr><tr><td>Source and gas(es) discussed in the PDD?</td><td>Yes</td></tr><tr><td>Inclusion / exclusion justified?</td><td>Yes</td></tr><tr><td>Explanation / Justification sufficient?</td><td>Yes</td></tr><tr><td>Consistency with monitoring plan?</td><td>Yes</td></tr></table>		Boundary checklist	Yes / No	Source and gas(es) discussed in the PDD?	Yes	Inclusion / exclusion justified?	Yes	Explanation / Justification sufficient?	Yes	Consistency with monitoring plan?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No															
Source and gas(es) discussed in the PDD?	Yes															
Inclusion / exclusion justified?	Yes															
Explanation / Justification sufficient?	Yes															
Consistency with monitoring plan?	Yes															
B.3.7.	Is the spatial extension of project boundary clear described?	1,2	The spatial extent of the project boundary is described in table B.3. without further explanation.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
B.3.8.	Do the spatial and technological boundaries as verified on-site comply with the discussion provided by / indication included to the PDD?	1,2	Yes, it is.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
B.4. Description of how the baseline scenario is identified and description of the identified baseline scenario																
B.4.1.	Have all technically feasible baseline scenario alternatives to the project activity been identified and discussed by the	1,2	Realistic and credible alternatives should be determined: <table><tr><td>Completely discussed and reasoned in PDD?</td><td>Yes / No</td></tr><tr><td>how power would be generated in the ab-</td><td>Yes</td></tr></table>		Completely discussed and reasoned in PDD?	Yes / No	how power would be generated in the ab-	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
Completely discussed and reasoned in PDD?	Yes / No															
how power would be generated in the ab-	Yes															

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS			PDD in GSP	Final PDD															
PDD? Why can this list be considered as being complete?		<table><tr><td colspan="2">sence of the CDM project activity;</td><td></td></tr><tr><td colspan="2">what would happen to the biomass residues in the absence of the project activity; and</td><td>Yes</td></tr><tr><td colspan="2">in case of cogeneration projects: how the heat would be generated in the absence of the project activity</td><td>N/A</td></tr></table>			sence of the CDM project activity;			what would happen to the biomass residues in the absence of the project activity; and		Yes	in case of cogeneration projects: how the heat would be generated in the absence of the project activity		N/A								
sence of the CDM project activity;																					
what would happen to the biomass residues in the absence of the project activity; and		Yes																			
in case of cogeneration projects: how the heat would be generated in the absence of the project activity		N/A																			
B.4.2. Is the project activity categorized and is that retraceable?	1,2	<p>For power generation, the realistic and credible alternatives may include</p> <table><tr><th colspan="2">Categories</th><th>Yes / No</th></tr><tr><td>P1</td><td>The proposed project activity not undertaken as a CDM project activity</td><td>Yes</td></tr><tr><td>P2</td><td>The proposed project activity (installation of a power plant), fired with the same type of biomass residues but with a lower efficiency of electrical generation (e.g. an efficiency that is common practice in the relevant industry sector)</td><td>No</td></tr><tr><td>P3</td><td>The generation of power in an existing plant, on-site or nearby the project site, using only fossil fuels</td><td>No</td></tr><tr><td>P4</td><td>The generation of power in existing and/or new grid-connected power plants</td><td>Yes</td></tr></table>			Categories		Yes / No	P1	The proposed project activity not undertaken as a CDM project activity	Yes	P2	The proposed project activity (installation of a power plant), fired with the same type of biomass residues but with a lower efficiency of electrical generation (e.g. an efficiency that is common practice in the relevant industry sector)	No	P3	The generation of power in an existing plant, on-site or nearby the project site, using only fossil fuels	No	P4	The generation of power in existing and/or new grid-connected power plants	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Categories		Yes / No																			
P1	The proposed project activity not undertaken as a CDM project activity	Yes																			
P2	The proposed project activity (installation of a power plant), fired with the same type of biomass residues but with a lower efficiency of electrical generation (e.g. an efficiency that is common practice in the relevant industry sector)	No																			
P3	The generation of power in an existing plant, on-site or nearby the project site, using only fossil fuels	No																			
P4	The generation of power in existing and/or new grid-connected power plants	Yes																			

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS			PDD in GSP	Final PDD
		P5	The continuation of power generation in an existing power plant, fired with the same type of biomass residues as (co-) fired in the project activity, and implementation of the project activity, not undertaken as a CDM project activity, at the end of the lifetime of the existing plant	No		
		P6	The continuation of power generation in an existing power plant, fired with the same type of biomass residues as (co-) fired in the project activity and, at the end of the lifetime of the existing plant, replacement of that plant by a similar new plant	No		
		For heat generation, realistic and credible alternative(s) may include,				
		Categories		Yes / No		
		H1	The proposed project activity not undertaken as a CDM project activity	N/A		
		H2	The proposed project activity (installation of a cogeneration power plant), fired with the same type of biomass residues but with a different efficiency of heat generation (e.g. an efficiency that is common practice in the relevant industry sector)	N/A		
		H3	The generation of heat in an existing cogeneration plant, on-site or nearby the project site, using only fossil fuels	N/A		
		H4	The generation of heat in boilers using the same type of biomass residues	N/A		

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS			PDD in GSP	Final PDD															
		H5	The continuation of heat generation in an existing cogeneration plant, fired with the same type of biomass residues as in the project activity, and implementation of the project activity, not undertaken as a CDM project activity, at the end of the lifetime of the existing plant	N/A																	
		H6	The generation of heat in boilers using fossil fuels	N/A																	
		H7	The use of heat from external sources, such as district heat	N/A																	
		H8	Other heat generation technologies (e.g. heat pumps or solar energy)	N/A																	
		<p>For the use of biomass residues, the realistic and credible alternative(s) may include, <i>inter alia</i>:</p> <table> <tr> <th colspan="2">Categories</th> <th>Yes / No</th> </tr> <tr> <td>B1</td> <td>The biomass residues are dumped or left to decay under mainly aerobic conditions. This applies, for example, to dumping and decay of biomass residues on fields.</td> <td>Yes</td> </tr> <tr> <td>B2</td> <td>The biomass residues are dumped or left to decay under clearly anaerobic conditions. This applies, for example, to deep landfills with more than 5 meters. This does not apply to biomass residues that are stock-piled¹ or left to decay on fields.</td> <td>No</td> </tr> <tr> <td>B3</td> <td>The biomass residues are burnt in an uncontrolled manner without utilizing it for energy purposes.</td> <td>Yes</td> </tr> <tr> <td>B4</td> <td>The biomass residues are used for heat</td> <td>No</td> </tr> </table>					Categories		Yes / No	B1	The biomass residues are dumped or left to decay under mainly aerobic conditions. This applies, for example, to dumping and decay of biomass residues on fields.	Yes	B2	The biomass residues are dumped or left to decay under clearly anaerobic conditions. This applies, for example, to deep landfills with more than 5 meters. This does not apply to biomass residues that are stock-piled ¹ or left to decay on fields.	No	B3	The biomass residues are burnt in an uncontrolled manner without utilizing it for energy purposes.	Yes	B4	The biomass residues are used for heat	No
		Categories		Yes / No																	
		B1	The biomass residues are dumped or left to decay under mainly aerobic conditions. This applies, for example, to dumping and decay of biomass residues on fields.	Yes																	
		B2	The biomass residues are dumped or left to decay under clearly anaerobic conditions. This applies, for example, to deep landfills with more than 5 meters. This does not apply to biomass residues that are stock-piled ¹ or left to decay on fields.	No																	
		B3	The biomass residues are burnt in an uncontrolled manner without utilizing it for energy purposes.	Yes																	
		B4	The biomass residues are used for heat	No																	

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION		Ref.	COMMENTS	PDD in GSP	Final PDD
			and/or electricity generation at the project site		
		B5	The biomass residues are used for power generation, including cogeneration, in other existing or new grid-connected power plants ²	No	
		B6	The biomass residues are used for heat generation in other existing or new boilers at other sites ³	No	
		B7	The biomass residues are used for other energy purposes, such as the generation of bio-fuels	No	
		B8	The biomass residues are used for non-energy purposes, e.g. as fertilizer or as feed-stock in processes (e.g. in the pulp and paper industry)	No	
B.4.3.	What kind of scenario combination has been applied according to table 1 of methodology?	1,2	Scenario 2 which is listed in ACM0006 Table 1 is applied to this project.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.4.4.	Does chosen scenario meet engineered project activity?	1,2	Yes, it does. <u>Corrective Action Request No.10.</u> Please provide all information using international units (SI). For example, mu is no international unit and outside China no EB member can assess this unit.	CAR10	<input checked="" type="checkbox"/>
B.4.5.	Have applicable regulatory or legal requirements been identified?	1,2,2 8	Yes, the Renewable Energy Promotion Law and Renewable Energy is identified	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.4.6.	Does project identify correctly and excludes those options not in line with regulatory or legal requirements?	1,2	Currently there is no related regulations that compel to use biomass, hence B1 and B3 is common scenario.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD																
B.4.7. In case of scenarios 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16 and 17, a power plant was already operated in respective in case of scenarios 1, 2, 3, 4, 7, 8, 10, 11, 12, 13, 14, 15, 16 and 17, heat may already have been generated at the project site prior to the implementation of the project activity. Hence, the lifetime and age of baseline components need to be considered. I	1,2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Age of each component mentioned?</td><td>N/A</td></tr><tr><td>Expected lifetime of each component mentioned?</td><td>N/A</td></tr><tr><td>Does the ending date fall in the scheduled credit-ing period of the project?</td><td>N/A</td></tr><tr><td>Evidences clearly referenced?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Choice of data correctly justified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr></table>	Data Checklist	Yes / No	Age of each component mentioned?	N/A	Expected lifetime of each component mentioned?	N/A	Does the ending date fall in the scheduled credit-ing period of the project?	N/A	Evidences clearly referenced?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																			
Age of each component mentioned?	N/A																			
Expected lifetime of each component mentioned?	N/A																			
Does the ending date fall in the scheduled credit-ing period of the project?	N/A																			
Evidences clearly referenced?	N/A																			
Has this value been verified?	N/A																			
Choice of data correctly justified?	N/A																			
Measurement method correctly described?	N/A																			
B.5. Description of how the anthropogenic emissions of GHG by sources are reduced below those that would have occurred in the absence of the registered CDM project activity (assessment and demonstration of additionality):																				
B.5.1. In case of applying step 2 / investment analysis of the additionality tool: Is the analysis method identified appropriately (step 2a)?	1,2	Yes, the benchmark analysis is applied. <u>Corrective Action Request No.11.</u> The benchmark analysis should be only in English. And the annual heat supplied should not be included in the sensitive analysis since there is no heat supply plan in the proposed project activity. Moreover, it has to be clarified if straw or cotton stalk will be used. The evidence for the quite high biomass price has to be delivered including an English translation.	CAR11	<input checked="" type="checkbox"/>																
B.5.2. In case of Option I (simple cost analysis): Is it demonstrated that the activity produces no economic benefits other than CDM income?	1,2	Not applicable.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																
B.5.3. In case of Option II (investment comparison analysis): Is the most suitable finan-	1,2	Not applicable.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
cial indicator clearly identified (IRR, NPV, cost benefit ratio, or (levelized) unit cost)?				
B.5.4. In case of Option III (benchmark analysis): Is the most suitable financial indicator clearly identified (IRR, NPV, cost benefit ratio, or (levelized) unit cost)?	1,2	Yes, IRR and NPV indicators are identified.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.5. In case of Option II or Option III: Is the calculation of financial figures for this indicator correctly done for all alternatives and the project activity?	1,2	The calculation of financial figures for IRR and NPV is done for the project activity without the revenues from the sale of CERs and with the revenues from the sale of CERs.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.6. In case of Option II or Option III: Is the analysis presented in a transparent manner including publicly available proofs for the utilized data?	1,2	Yes, the analysis is transparent, the relating documents have been reviewed by the auditor. E.g. the grid connection agreement, the taxation regulations, and the straw purchase agreement etc. but see CAR11	See CAR11	<input checked="" type="checkbox"/>
B.5.7. In case of applying step 3 (barrier analysis) of the additionality tool: Is a complete list of barriers developed that prevent the different alternatives to occur?	1,2	Yes. Investment barrier, technological barrier and first-of-its kind barrier are analyzed.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.8. In case of applying step 3 (barrier analysis): Is transparent and documented evidence provided on the existence and significance of these barriers?	1,2	<p>The barriers analysis is transparent. The barriers mentioned are mainly general barriers that apply to biomass power plants such as uncertainties and risks regarding the tariff, the fuel costs and the technology. This kind of barriers is quite obvious but they are not project specific. For that reason no separate evidence has to be delivered. The most stringent barrier is the investment barrier that has been evidenced by supporting documents.</p> <p>Clarification request1:</p> <p>A version that can be uploaded to the UNFCCC web page (Excel) has to be delivered. The CER's price is not consistent with the price in the purchasing agreement, which signed with the EDF</p>	CR1	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION		Ref.	COMMENTS	PDD in GSP	Final PDD
			trading Co., Ltd. And the construction life is shorter than the crediting period. All the values calculated for the IRR analysis should be consistent with the feasibility study.		
B.5.9.	In case of applying step 3 (barrier analysis): Is it transparently shown that the execution of at least one of the alternatives is not prevented by the identified barriers?	1,2	The identified barriers will not be applicable to the coal fired power plants.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.10.	Have other activities in the host country / region similar to the project activity been identified and are these activities appropriately analyzed by the PDD (step 4a)?	1,2	The technology used in the proposed project has not been used in China before and there are no similar projects in China that are developed without CDM.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.11.	If similar activities are occurring: Is it demonstrated that in spite of these similarities the project activity would not be implemented without the CDM component (step 4b)?	1,2	Not applicable.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.12.	Is it appropriately explained how the approval of the project activity will help to overcome the economic and financial hurdles or other identified barriers (step 5)?	1,2	The CDM revenues will contribute to overcome the barriers mentioned above through reducing the financial and commercial risks of, and increasing the financial and commercial return to the project.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6. Emissions reductions					
<i>B.6.1. Explanation of methodological choices</i>					
B.6.1.1.	Is it explained how the procedures provided in the methodology are applied by the proposed project activity?	1,2	Yes, it is. The project activity applied the methodology based on the analysis in Section B.4.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
B.6.1.2. Is every selection of options offered by the methodology correctly justified and is this justification in line with the situation verified on-site?	1,2	Yes, it is.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.3. Which conservativeness factor has been chosen and how is this choice justified	1,2	NDRC published emission factors are used, but see CR2.	See CR2	<input checked="" type="checkbox"/>
B.6.1.4. Are the formulae required for the determination of project emissions correctly presented, enabling a complete identification of parameter to be used and / or monitored?	1,2	<u>Corrective Action Request No.12.</u> The formula of PEF _{Fy} is missing partially.	CAR12	<input checked="" type="checkbox"/>
B.6.1.5. Are the formulae required for the determination of baseline emissions correctly presented, enabling a complete identification of parameter to be used and / or monitored?	1,2	Yes, formulae to calculate the baseline emission are correctly presented.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.6. Are the formulae required for the determination of leakage emissions correctly presented, enabling a complete identification of parameter to be used and / or monitored?	1,2	The proposed power plant will not influence the present biomass utilisation and therefore not create any leakage.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.7. Are the formulae required for the determination of emission reductions correctly presented?	1,2	Yes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.2. <i>Data and parameters that are available at validation</i> <i>The Emission reduction is estimated by the formula $ERY = ER_{heat, y} + ER_{electricity, y} + BE_{biomass, y} - PE_y - L_y$</i> <i>ERY = Emissions reductions of the project activity during the year y (tCO₂/yr)</i> <i>ER_{electricity, y} = Emission reductions due to displacement of electricity during the year y (tCO₂/yr)</i> <i>ER_{heat, y} = Emission reductions due to displacement of heat during the year y (tCO₂/yr)</i> <i>BE_{biomass, y} = Baseline emissions due to natural decay or burning of anthropogenic sources of biomass residues during the year y</i>				

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD																		
<i>(tCO2e/yr)</i> <i>PEy = Project emissions during the year y (tCO2/yr)</i> <i>Ly = Leakage emissions during the year y (tCO2/yr)</i> <i>Depending on the project not all variables are relevant. Only relevant variables shall be considered following.</i> <i>Parameters that are not relevant shall be addressed as not relevant.</i>																						
B.6.2.1. Is the list of parameters presented in chapter B.6.2 considered to be complete with regard to the requirements of the applied methodology?	1,2	<u>Corrective Action Request No.13.</u> Please list the parameters based on the requirement of the applied methodology. Use the correct parameter and the correct unit, e.g. the unit of NCVi is GJ but not TJ.	CAR13	<input checked="" type="checkbox"/>																		
B.6.2.2. Does the quantity of biomass residues refer to the dry weight?	1,2,19	<u>Corrective Action Request No.14.</u> According to the cotton stalk collection records from the collection sites, the moisture data of the cotton stalk is available (around 10%--30% according to some sample records from the on-site visit, < 10% according to the feasibility study), so the quantity of biomass residues in the projection has to be revised, as well the relevant statement in the PDD. The parameter: Biomass moisture content has to be listed in the chapter B.6.2 of the PDD.	CAR14	<input checked="" type="checkbox"/>																		
B.6.2.3. Parameter Title: Global warming potential for CH4 GWP CH4	1,2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description of parameter?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr><tr><td>Correct value provided?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Choice of data correctly justified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided?	Yes	Has this value been verified?	Yes	Choice of data correctly justified?	Yes	Measurement method correctly described?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	Yes																					
Data unit correctly expressed?	Yes																					
Appropriate description of parameter?	Yes																					
Source clearly referenced?	Yes																					
Correct value provided?	Yes																					
Has this value been verified?	Yes																					
Choice of data correctly justified?	Yes																					
Measurement method correctly described?	Yes																					

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD																		
B.6.2.4. Parameter Title: Net quantity of electricity generated during the three most recent years in the fossil fuel fired captive power plant identified as baseline plant (P3) EG _{CP,historic,3y}	1,2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Choice of data correctly justified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	N/A																					
Data unit correctly expressed?	N/A																					
Appropriate description of parameter?	N/A																					
Source clearly referenced?	N/A																					
Correct value provided?	N/A																					
Has this value been verified?	N/A																					
Choice of data correctly justified?	N/A																					
Measurement method correctly described?	N/A																					
B.6.2.5. Parameter Title: Net quantity of electricity generated during the most recent three years in all power plants at the project site, generated from firing the same type(s) of biomass residues as in the project plant EG _{historic,3y}	1,2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Choice of data correctly justified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	N/A																					
Data unit correctly expressed?	N/A																					
Appropriate description of parameter?	N/A																					
Source clearly referenced?	N/A																					
Correct value provided?	N/A																					
Has this value been verified?	N/A																					
Choice of data correctly justified?	N/A																					
Measurement method correctly described?	N/A																					
B.6.2.6. Parameter Title: Quantity of fossil fuel type i combusted during the most recent three years in the captive power plant FF _{CP,historic,3y}	1,2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided?</td><td>N/A</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
Data Checklist	Yes / No																					
Title in line with methodology?	N/A																					
Data unit correctly expressed?	N/A																					
Appropriate description of parameter?	N/A																					
Source clearly referenced?	N/A																					
Correct value provided?	N/A																					

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		
		Measurement method correctly described?	N/A		
B.6.2.7. Parameter Title: Average net efficiency of heat generation in the project plant prior to project implementation $\epsilon_{th_pre\ project}$	1,2	Data Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided?	N/A		
		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		
		Measurement method correctly described?	N/A		
B.6.2.8. Parameter Title: Average net efficiency of electricity generation in the project plant prior to project implementation $\epsilon_{el_pre\ project}$	1,2	Data Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided?	N/A		
		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		
		Measurement method correctly described?	N/A		
B.6.2.9. Parameter Title: Average net efficiency of electricity gen-	1,2	Data Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
eration in biomass residue fired power plants in the grid that fire the same type of biomass residues as the project plant. ϵ_{el_grid} plants		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided?	N/A		
		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		
		Measurement method correctly described?	N/A		
B.6.2.10. Parameter Title: Average net energy efficiency of power / heat generation in the reference power / cogeneration plant that would use the biomass residues fired in the project plant in the absence of the project activity ϵ_{el} , reference plant / $\epsilon_{th_reference}$ plant	1,2	Data Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided?	N/A		
		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		
		Measurement method correctly described?	N/A		
B.6.2.11. Parameter Title: Average net efficiency of electricity / heat generation in the existing power / cogeneration plant(s) fired with the same type of biomass residue at the project site ϵ_{el} , existing plant / $\epsilon_{th_existing}$ plant	1,2	Data Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided?	N/A		
		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD																		
		<table><tr><td>Measurement method correctly described?</td><td>N/A</td></tr></table>		Measurement method correctly described?	N/A																		
Measurement method correctly described?	N/A																						
B.6.2.12. Parameter Title: Net quantity of heat generated during the most recent three years in all cogeneration plants at the project site, generated from firing the same type(s) of biomass residues as in the project plant $Q_{\text{historic 3y}}$	1,2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Choice of data correctly justified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr></table>		Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																						
Title in line with methodology?	N/A																						
Data unit correctly expressed?	N/A																						
Appropriate description of parameter?	N/A																						
Source clearly referenced?	N/A																						
Correct value provided?	N/A																						
Has this value been verified?	N/A																						
Choice of data correctly justified?	N/A																						
Measurement method correctly described?	N/A																						
B.6.2.13. Parameter Title: Net quantity of heat generated during the most recent three years in all boilers at the project site, generated from firing the same type(s) of biomass residues as in the project plant $Q_{\text{biomass historic 3y}}$	1,2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Choice of data correctly justified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr></table>		Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																						
Title in line with methodology?	N/A																						
Data unit correctly expressed?	N/A																						
Appropriate description of parameter?	N/A																						
Source clearly referenced?	N/A																						
Correct value provided?	N/A																						
Has this value been verified?	N/A																						
Choice of data correctly justified?	N/A																						
Measurement method correctly described?	N/A																						
B.6.2.14. Parameter Title: Quantity of biomass residue type k that has been fired in boilers for heat generation during the most recent three years at	1,2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr></table>		Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>												
Data Checklist	Yes / No																						
Title in line with methodology?	N/A																						
Data unit correctly expressed?	N/A																						

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
the project site BF _k , Boiler, historic 3y		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided?	N/A		
		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		
		Measurement method correctly described?	N/A		
B.6.2.15. Parameter Title: Energy efficiency of the biomass residue fired boiler that would be used in the absence of the project activity ε _{boiler biomass}	1,2	Data Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided?	N/A		
		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		
		Measurement method correctly described?	N/A		
B.6.2.16. Parameter Title: Quantity of biomass residue type k used as fuel in all installations (power plants, boilers, etc) at the project site during the most recent three years prior to the implementation of the project activity BF _{historic, k, 3y}	1,2	Data Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided?	N/A		
		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		
		Measurement method correctly described?	N/A		

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD																		
B.6.2.17. Parameter Title: Moisture content of each biomass residue type k or i	1,2,19	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>No</td></tr><tr><td>Data unit correctly expressed?</td><td>No</td></tr><tr><td>Appropriate description of parameter?</td><td>No</td></tr><tr><td>Source clearly referenced?</td><td>No</td></tr><tr><td>Correct value provided?</td><td>No</td></tr><tr><td>Has this value been verified?</td><td>No</td></tr><tr><td>Choice of data correctly justified?</td><td>No</td></tr><tr><td>Measurement method correctly described?</td><td>No</td></tr></table> See CAR14	Data Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	No	Appropriate description of parameter?	No	Source clearly referenced?	No	Correct value provided?	No	Has this value been verified?	No	Choice of data correctly justified?	No	Measurement method correctly described?	No	See CAR14	☑
Data Checklist	Yes / No																					
Title in line with methodology?	No																					
Data unit correctly expressed?	No																					
Appropriate description of parameter?	No																					
Source clearly referenced?	No																					
Correct value provided?	No																					
Has this value been verified?	No																					
Choice of data correctly justified?	No																					
Measurement method correctly described?	No																					
B.6.2.18. Parameter Title: Net calorific values of fossil fuel type i NCV _i	1,2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>No</td></tr><tr><td>Appropriate description of parameter?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr><tr><td>Correct value provided?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Choice of data correctly justified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr></table> See CAR13	Data Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	No	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided?	Yes	Has this value been verified?	Yes	Choice of data correctly justified?	Yes	Measurement method correctly described?	Yes	See CAR13	☑
Data Checklist	Yes / No																					
Title in line with methodology?	Yes																					
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Appropriate description of parameter?	Yes																					
Source clearly referenced?	Yes																					
Correct value provided?	Yes																					
Has this value been verified?	Yes																					
Choice of data correctly justified?	Yes																					
Measurement method correctly described?	Yes																					
B.6.3. Ex-ante calculation of emission reductions																						
B.6.3.1. Is the projection based on the same procedures as used for future monitoring?	1,2	Yes.	☑	☑																		
B.6.3.2. Are the GHG calculations documented in a complete and transparent manner?	1,2	<u>Corrective Action Request No.15.</u> - The NDRC latest released emission factors have to be considered. Though the 3 years average OM factor is the	CAR15	☑																		

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
		<p>same, but the OM factor in each year from 2002-2004 has some small changes in the latest released data.</p> <ul style="list-style-type: none"> - There is a small mistake about the data source of the carbon oxidation factor of diesel. It is from IPCC 1996 default value. - The leakages are considered to be zero because there is no other use of biomass but in B.5. additional risks are claimed due to rising straw prices caused by other power plants using the same fuel. Please clarify and correct if necessary. <p>The above revision will not impact the Emission Reduction.</p> <p>Clarification request 2:</p> <p>A comparison between NDRC grid values and the values required by the methodology (IPCC2006 default data) has to be submitted to the DOE, the more conservative values should be used.</p>	CR2	
B.6.3.3. Is the data provided in this section consistent with data as presented in other chapters of the PDD?	1,2	Yes, there is no contradiction.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.3.4. Are calculation tools used? If so is the data used in the tools consistent with the stated in the PDD?	1,2	Yes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.4. Summary of the ex-ante estimation of emission reductions				
B.6.4.1. Will the project result in fewer GHG emissions than the baseline scenario?	1,2	Yes, the project will use biomass residues to generate electricity which will result in fewer GHG emissions than the baseline scenario.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.4.2. Is the form/table required for the indication	1,2	Yes. The form is correctly applied.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
of projected emission reductions correctly applied?				
B.6.4.3. Is the projection in line with the envisioned time schedule for the project's implementation and the indicated crediting period?	1,2,6	Please see CAR6 <u>Corrective Action Request No.16.</u> Please include a time schedule of the implementation of the project starting with the planning, consideration of CDM to operation.	See CAR6 CAR16	<input checked="" type="checkbox"/>
B.6.4.4. Is the data provided in this section in consistency with data as presented in other chapters of the PDD?	1,2	Yes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.7. Application of the monitoring methodology and description of the monitoring plan				
<i>B.7.1. Data and parameters monitored</i>				
B.7.1.1. Is the list of parameters presented in chapter B.7.1 considered to be complete with regard to the requirements of the applied methodology?	1,2	<u>Corrective Action Request No.17.</u> Some listed parameters are not clearly presented, please correct those parameters regard to the requirements of the applied methodology. The combustion parameters for all kind of biomass have to be monitored separately! The monitoring method has to be described. Especially the standards that are referred to the accuracy, the calibration method of the measurement equipment and the frequency of the calibration have to be indicated clearly. According to the methodology, the following parameters have to be monitored: <ul style="list-style-type: none"> - $EF_{CH_4,BF}$: Average CO2 emission factor for the trucks during the year y - CO2 emission factor for fossil fuel type i $EF_{CO_2,FF,i}$ - Net calorific value of the fossil fuel type i 	CAR17	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD																				
		<p>NCV_i</p> <ul style="list-style-type: none"> - CH4 emission factor for uncontrolled burning of the biomass residue type k during the year y EF_{burning,CH4,k,y} - Quantity of biomass residues of type k that are utilized (e.g. for energy generation or as feedstock) in the defined geographical region - Quantity of available biomass residues of type k in the region - On-site electricity consumption attributable to the project activity during the year y EC_{PJ,y} - Quantity of biomass residue type k combusted in all power plants at the project site during the year y Source of data: On-site measurements BF_{all plants,k,y} - Surplus all types of biomass supply in the region. 																						
<p>B.7.1.2. Parameter Title: Quantity of biomass residue type k combusted in the project plant during the year y BF_{k,y}</p>	1,2	<table> <tr> <th>Monitoring Checklist</th> <th>Yes / No</th> </tr> <tr> <td>Title in line with methodology?</td> <td>No</td> </tr> <tr> <td>Data unit correctly expressed?</td> <td>No</td> </tr> <tr> <td>Appropriate description of parameter?</td> <td>Yes</td> </tr> <tr> <td>Source clearly referenced?</td> <td>Yes</td> </tr> <tr> <td>Correct value provided for estimation?</td> <td>Yes</td> </tr> <tr> <td>Has this value been verified?</td> <td>Yes</td> </tr> <tr> <td>Measurement method correctly described?</td> <td>No</td> </tr> <tr> <td>Correct reference to standards?</td> <td>No</td> </tr> <tr> <td>Indication of accuracy provided?</td> <td>No</td> </tr> </table>	Monitoring Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	No	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided for estimation?	Yes	Has this value been verified?	Yes	Measurement method correctly described?	No	Correct reference to standards?	No	Indication of accuracy provided?	No	See CAR17	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																							
Title in line with methodology?	No																							
Data unit correctly expressed?	No																							
Appropriate description of parameter?	Yes																							
Source clearly referenced?	Yes																							
Correct value provided for estimation?	Yes																							
Has this value been verified?	Yes																							
Measurement method correctly described?	No																							
Correct reference to standards?	No																							
Indication of accuracy provided?	No																							

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD																								
		QA/QC procedures described?	Yes																										
		QA/QC procedures appropriate?	No																										
		See CAR17																											
B.7.1.3. Parameter Title: Moisture content of the biomass residues	1,2	<table><tr><td>Monitoring Checklist</td><td>Yes / No</td></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description of parameter?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr><tr><td>Correct value provided for estimation?</td><td>No</td></tr><tr><td>Has this value been verified?</td><td>No</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr><tr><td>Correct reference to standards?</td><td>Yes</td></tr><tr><td>Indication of accuracy provided?</td><td>No</td></tr><tr><td>QA/QC procedures described?</td><td>No</td></tr><tr><td>QA/QC procedures appropriate?</td><td>No</td></tr></table> See CAR17		Monitoring Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided for estimation?	No	Has this value been verified?	No	Measurement method correctly described?	Yes	Correct reference to standards?	Yes	Indication of accuracy provided?	No	QA/QC procedures described?	No	QA/QC procedures appropriate?	No	See CAR17	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																												
Title in line with methodology?	Yes																												
Data unit correctly expressed?	Yes																												
Appropriate description of parameter?	Yes																												
Source clearly referenced?	Yes																												
Correct value provided for estimation?	No																												
Has this value been verified?	No																												
Measurement method correctly described?	Yes																												
Correct reference to standards?	Yes																												
Indication of accuracy provided?	No																												
QA/QC procedures described?	No																												
QA/QC procedures appropriate?	No																												
B.7.1.4. Parameter Title: CH4 emission factor for the combustion of biomass residues in the project plant EF _{CH4,BF}	1,2	<table><tr><td>Monitoring Checklist</td><td>Yes / No</td></tr><tr><td>Title in line with methodology?</td><td>No</td></tr><tr><td>Data unit correctly expressed?</td><td>No</td></tr><tr><td>Appropriate description of parameter?</td><td>No</td></tr><tr><td>Source clearly referenced?</td><td>No</td></tr><tr><td>Correct value provided for estimation?</td><td>No</td></tr><tr><td>Has this value been verified?</td><td>No</td></tr><tr><td>Measurement method correctly described?</td><td>No</td></tr><tr><td>Correct reference to standards?</td><td>No</td></tr><tr><td>Indication of accuracy provided?</td><td>No</td></tr><tr><td>QA/QC procedures described?</td><td>No</td></tr></table>		Monitoring Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	No	Appropriate description of parameter?	No	Source clearly referenced?	No	Correct value provided for estimation?	No	Has this value been verified?	No	Measurement method correctly described?	No	Correct reference to standards?	No	Indication of accuracy provided?	No	QA/QC procedures described?	No	See CAR17	<input checked="" type="checkbox"/>		
Monitoring Checklist	Yes / No																												
Title in line with methodology?	No																												
Data unit correctly expressed?	No																												
Appropriate description of parameter?	No																												
Source clearly referenced?	No																												
Correct value provided for estimation?	No																												
Has this value been verified?	No																												
Measurement method correctly described?	No																												
Correct reference to standards?	No																												
Indication of accuracy provided?	No																												
QA/QC procedures described?	No																												

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD																								
		QA/QC procedures appropriate? See CAR17	No																										
B.7.1.5. Parameter Title: Average round trip distance (from and to) between biomass fuel supply sites and the project site AVD _y	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description of parameter?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr><tr><td>Correct value provided for estimation?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr><tr><td>Correct reference to standards?</td><td>Yes</td></tr><tr><td>Indication of accuracy provided?</td><td>Yes</td></tr><tr><td>QA/QC procedures described?</td><td>Yes</td></tr><tr><td>QA/QC procedures appropriate?</td><td>Yes</td></tr></table>		Monitoring Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided for estimation?	Yes	Has this value been verified?	Yes	Measurement method correctly described?	Yes	Correct reference to standards?	Yes	Indication of accuracy provided?	Yes	QA/QC procedures described?	Yes	QA/QC procedures appropriate?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																												
Title in line with methodology?	Yes																												
Data unit correctly expressed?	Yes																												
Appropriate description of parameter?	Yes																												
Source clearly referenced?	Yes																												
Correct value provided for estimation?	Yes																												
Has this value been verified?	Yes																												
Measurement method correctly described?	Yes																												
Correct reference to standards?	Yes																												
Indication of accuracy provided?	Yes																												
QA/QC procedures described?	Yes																												
QA/QC procedures appropriate?	Yes																												
B.7.1.6. Parameter Title: Number of truck trips for the transportation of biomass. N _y	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided for estimation?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr><tr><td>Correct reference to standards?</td><td>N/A</td></tr><tr><td>Indication of accuracy provided?</td><td>N/A</td></tr><tr><td>QA/QC procedures described?</td><td>N/A</td></tr><tr><td>QA/QC procedures appropriate?</td><td>N/A</td></tr></table>		Monitoring Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided for estimation?	N/A	Has this value been verified?	N/A	Measurement method correctly described?	N/A	Correct reference to standards?	N/A	Indication of accuracy provided?	N/A	QA/QC procedures described?	N/A	QA/QC procedures appropriate?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																												
Title in line with methodology?	N/A																												
Data unit correctly expressed?	N/A																												
Appropriate description of parameter?	N/A																												
Source clearly referenced?	N/A																												
Correct value provided for estimation?	N/A																												
Has this value been verified?	N/A																												
Measurement method correctly described?	N/A																												
Correct reference to standards?	N/A																												
Indication of accuracy provided?	N/A																												
QA/QC procedures described?	N/A																												
QA/QC procedures appropriate?	N/A																												

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD																								
B.7.1.7. Parameter Title: Average truck load of the trucks used for transportation of biomass. TL _y	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description of parameter?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr><tr><td>Correct value provided for estimation?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr><tr><td>Correct reference to standards?</td><td>No</td></tr><tr><td>Indication of accuracy provided?</td><td>No</td></tr><tr><td>QA/QC procedures described?</td><td>No</td></tr><tr><td>QA/QC procedures appropriate?</td><td>No</td></tr></table> See CAR17.	Monitoring Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided for estimation?	Yes	Has this value been verified?	Yes	Measurement method correctly described?	Yes	Correct reference to standards?	No	Indication of accuracy provided?	No	QA/QC procedures described?	No	QA/QC procedures appropriate?	No	See CAR17	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																											
Title in line with methodology?	Yes																											
Data unit correctly expressed?	Yes																											
Appropriate description of parameter?	Yes																											
Source clearly referenced?	Yes																											
Correct value provided for estimation?	Yes																											
Has this value been verified?	Yes																											
Measurement method correctly described?	Yes																											
Correct reference to standards?	No																											
Indication of accuracy provided?	No																											
QA/QC procedures described?	No																											
QA/QC procedures appropriate?	No																											
B.7.1.8. Parameter Title: Average CO2 emission factor for the trucks during the year y EF _{km,CO2,y}	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description of parameter?</td><td>No</td></tr><tr><td>Source clearly referenced?</td><td>No</td></tr><tr><td>Correct value provided for estimation?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr><tr><td>Correct reference to standards?</td><td>Yes</td></tr><tr><td>Indication of accuracy provided?</td><td>N/A</td></tr><tr><td>QA/QC procedures described?</td><td>No</td></tr><tr><td>QA/QC procedures appropriate?</td><td>No</td></tr></table> See CAR17	Monitoring Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	No	Source clearly referenced?	No	Correct value provided for estimation?	Yes	Has this value been verified?	Yes	Measurement method correctly described?	Yes	Correct reference to standards?	Yes	Indication of accuracy provided?	N/A	QA/QC procedures described?	No	QA/QC procedures appropriate?	No	See-CAR17	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																											
Title in line with methodology?	Yes																											
Data unit correctly expressed?	Yes																											
Appropriate description of parameter?	No																											
Source clearly referenced?	No																											
Correct value provided for estimation?	Yes																											
Has this value been verified?	Yes																											
Measurement method correctly described?	Yes																											
Correct reference to standards?	Yes																											
Indication of accuracy provided?	N/A																											
QA/QC procedures described?	No																											
QA/QC procedures appropriate?	No																											

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD																								
B.7.1.9. Parameter Title: Mass or volume unit $FC_{TR,i,y}$	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided for estimation?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr><tr><td>Correct reference to standards?</td><td>N/A</td></tr><tr><td>Indication of accuracy provided?</td><td>N/A</td></tr><tr><td>QA/QC procedures described?</td><td>N/A</td></tr><tr><td>QA/QC procedures appropriate?</td><td>N/A</td></tr></table>	Monitoring Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided for estimation?	N/A	Has this value been verified?	N/A	Measurement method correctly described?	N/A	Correct reference to standards?	N/A	Indication of accuracy provided?	N/A	QA/QC procedures described?	N/A	QA/QC procedures appropriate?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																											
Title in line with methodology?	N/A																											
Data unit correctly expressed?	N/A																											
Appropriate description of parameter?	N/A																											
Source clearly referenced?	N/A																											
Correct value provided for estimation?	N/A																											
Has this value been verified?	N/A																											
Measurement method correctly described?	N/A																											
Correct reference to standards?	N/A																											
Indication of accuracy provided?	N/A																											
QA/QC procedures described?	N/A																											
QA/QC procedures appropriate?	N/A																											
B.7.1.10. Parameter Title: CO2 emission factor for fossil fuel type i $EF_{CO2,FF,i}$	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>No</td></tr><tr><td>Data unit correctly expressed?</td><td>No</td></tr><tr><td>Appropriate description of parameter?</td><td>No</td></tr><tr><td>Source clearly referenced?</td><td>No</td></tr><tr><td>Correct value provided for estimation?</td><td>No</td></tr><tr><td>Has this value been verified?</td><td>No</td></tr><tr><td>Measurement method correctly described?</td><td>No</td></tr><tr><td>Correct reference to standards?</td><td>No</td></tr><tr><td>Indication of accuracy provided?</td><td>No</td></tr><tr><td>QA/QC procedures described?</td><td>No</td></tr><tr><td>QA/QC procedures appropriate?</td><td>No</td></tr></table> See CAR17	Monitoring Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	No	Appropriate description of parameter?	No	Source clearly referenced?	No	Correct value provided for estimation?	No	Has this value been verified?	No	Measurement method correctly described?	No	Correct reference to standards?	No	Indication of accuracy provided?	No	QA/QC procedures described?	No	QA/QC procedures appropriate?	No	See CAR17	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																											
Title in line with methodology?	No																											
Data unit correctly expressed?	No																											
Appropriate description of parameter?	No																											
Source clearly referenced?	No																											
Correct value provided for estimation?	No																											
Has this value been verified?	No																											
Measurement method correctly described?	No																											
Correct reference to standards?	No																											
Indication of accuracy provided?	No																											
QA/QC procedures described?	No																											
QA/QC procedures appropriate?	No																											
B.7.1.11. Parameter Title:	1,2		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																								

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
CO2 emission factor of the fossil fuel type i used for heat generation in the absence the project activity $EF_{CO2,BL,heat,i}$		Monitoring Checklist	Yes / No		
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.12. Parameter Title: Quantity of fossil fuel type i combusted in the biomass residue fired power plant during the year y $FF_{project\ plant,i,y}$	1,2	Monitoring Checklist	Yes / No	See CAR17	<input checked="" type="checkbox"/>
		Title in line with methodology?	Yes		
		Data unit correctly expressed?	Yes		
		Appropriate description of parameter?	Yes		
		Source clearly referenced?	No		
		Correct value provided for estimation?	Yes		
		Has this value been verified?	Yes		
		Measurement method correctly described?	No		
		Correct reference to standards?	No		
		Indication of accuracy provided?	No		
		QA/QC procedures described?	Yes		
		QA/QC procedures appropriate?	No		
		See CAR17			
B.7.1.13. Parameter Title: Quantity of fossil fuel type i combusted at	1,2	Monitoring Checklist	Yes / No	See CAR17	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
the project site for other purposes that are attributable to the project activity during the year y FF _{project site,i,y}		Title in line with methodology?	Yes		
		Data unit correctly expressed?	Yes		
		Appropriate description of parameter?	Yes		
		Source clearly referenced?	No		
		Correct value provided for estimation?	No		
		Has this value been verified?	No		
		Measurement method correctly described?	Yes		
		Correct reference to standards?	Yes		
		Indication of accuracy provided?	No		
		QA/QC procedures described?	Yes		
		QA/QC procedures appropriate?	No		
		See CAR17			
B.7.1.14. Parameter Title: Quantity of steam diverted from other boilers to the project plant.	1,2	Monitoring Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.15. Parameter Title: Average net efficiency of steam generation in the plant(s) from where steam is diverted to the project plant	1,2	Monitoring Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.16. Parameter Title: Net quantity of electricity generated in the project plant during the year y EG _{project plant,y}	1,2	Monitoring Checklist	Yes / No	See CAR17	☑
		Title in line with methodology?	No		
		Data unit correctly expressed?	No		
		Appropriate description of parameter?	No		
		Source clearly referenced?	No		
		Correct value provided for estimation?	Yes		
		Has this value been verified?	No		
		Measurement method correctly described?	Yes		
		Correct reference to standards?	Yes		
		Indication of accuracy provided?	No		
		QA/QC procedures described?	Yes		
		QA/QC procedures appropriate?	No		
		See CAR17			
B.7.1.17. Parameter Title: Net quantity of electricity generated in the fossil fuel fired captive power plant during the year y EG _{CP,y}	1,2	Monitoring Checklist	Yes / No	☑	☑
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.18. Parameter Title: Net quantity of electricity generated in all power units at the project site, generated from firing the same type(s) of biomass residues as in the project plant, including the new power unit installed as part of the project activity and any previously existing units, during the year y EG _{total,y}	1,2	Monitoring Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.19. Parameter Title: Net quantity of heat generated from firing biomass in the project plant Q _{project plant,y}	1,2	Monitoring Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.20. Parameter Title: Net quantity of heat generated in all cogeneration units at the project site, generated from firing the same type(s) of biomass residues as in the project plant, including the cogeneration unit installed as part of the project activity and any previously existing units, during the year y $Q_{total,y}$	1,2	Monitoring Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.21. Parameter Title: Net calorific value of the fossil fuel type i NCV_i	1,2	Monitoring Checklist	Yes / No	See CAR17	<input checked="" type="checkbox"/>
		Title in line with methodology?	No		
		Data unit correctly expressed?	No		
		Appropriate description of parameter?	No		
		Source clearly referenced?	No		
		Correct value provided for estimation?	No		

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
		Has this value been verified?	No		
		Measurement method correctly described?	No		
		Correct reference to standards?	No		
		Indication of accuracy provided?	No		
		QA/QC procedures described?	No		
		QA/QC procedures appropriate?	No		
		See CAR17			
B.7.1.22. Parameter Title: Net calorific value of biomass residue type k NCV _k	1,2	Monitoring Checklist	Yes / No	See CAR17	<input checked="" type="checkbox"/>
		Title in line with methodology?	Yes		
		Data unit correctly expressed?	Yes		
		Appropriate description of parameter?	No		
		Source clearly referenced?	Yes		
		Correct value provided for estimation?	No		
		Has this value been verified?	No		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	No		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	Yes		
		QA/QC procedures appropriate?	Yes		
		See CAR17			
B.7.1.23. Parameter Title: CH4 emission factor for uncontrolled burning of the biomass residue type k during the year y EF _{burning,CH4,k,y}	1,2	Monitoring Checklist	Yes / No	See CAR17	<input checked="" type="checkbox"/>
		Title in line with methodology?	No		
		Data unit correctly expressed?	No		
		Appropriate description of parameter?	No		
		Source clearly referenced?	No		
		Correct value provided for estimation?	No		
		Has this value been verified?	No		

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
		Measurement method correctly described?	No		
		Correct reference to standards?	No		
		Indication of accuracy provided?	No		
		QA/QC procedures described?	No		
		QA/QC procedures appropriate?	No		
		See CAR17			
B.7.1.24. Parameter Title: Average net energy efficiency of heat generation in the boiler that would generate heat in the absence of the project activity ε boiler	1,2	Monitoring Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.25. Parameter Title: Demonstration that the biomass residue type k from a specific source would continue not to be collected or utilized, e.g. by an assessment whether a market has emerged for that type of biomass residue (if yes, leakage is assumed not be ruled out) or by showing that it would still not be feasible to utilize the biomass residues for any purposes.	1,2	Monitoring Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD																								
		Indication of accuracy provided?	N/A																										
		QA/QC procedures described?	N/A																										
		QA/QC procedures appropriate?	N/A																										
B.7.1.26. Parameter Title: Quantity of biomass residues of type k that are utilized (e.g. for energy generation or as feedstock) in the defined geographical region	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>No</td></tr><tr><td>Data unit correctly expressed?</td><td>No</td></tr><tr><td>Appropriate description of parameter?</td><td>No</td></tr><tr><td>Source clearly referenced?</td><td>No</td></tr><tr><td>Correct value provided for estimation?</td><td>No</td></tr><tr><td>Has this value been verified?</td><td>No</td></tr><tr><td>Measurement method correctly described?</td><td>No</td></tr><tr><td>Correct reference to standards?</td><td>No</td></tr><tr><td>Indication of accuracy provided?</td><td>No</td></tr><tr><td>QA/QC procedures described?</td><td>No</td></tr><tr><td>QA/QC procedures appropriate?</td><td>No</td></tr></table> See CAR17		Monitoring Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	No	Appropriate description of parameter?	No	Source clearly referenced?	No	Correct value provided for estimation?	No	Has this value been verified?	No	Measurement method correctly described?	No	Correct reference to standards?	No	Indication of accuracy provided?	No	QA/QC procedures described?	No	QA/QC procedures appropriate?	No	See CAR17	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																												
Title in line with methodology?	No																												
Data unit correctly expressed?	No																												
Appropriate description of parameter?	No																												
Source clearly referenced?	No																												
Correct value provided for estimation?	No																												
Has this value been verified?	No																												
Measurement method correctly described?	No																												
Correct reference to standards?	No																												
Indication of accuracy provided?	No																												
QA/QC procedures described?	No																												
QA/QC procedures appropriate?	No																												
B.7.1.27. Parameter Title: Quantity of available biomass residues of type k in the region	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>No</td></tr><tr><td>Data unit correctly expressed?</td><td>No</td></tr><tr><td>Appropriate description of parameter?</td><td>No</td></tr><tr><td>Source clearly referenced?</td><td>No</td></tr><tr><td>Correct value provided for estimation?</td><td>No</td></tr><tr><td>Has this value been verified?</td><td>No</td></tr><tr><td>Measurement method correctly described?</td><td>No</td></tr><tr><td>Correct reference to standards?</td><td>No</td></tr><tr><td>Indication of accuracy provided?</td><td>No</td></tr></table>		Monitoring Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	No	Appropriate description of parameter?	No	Source clearly referenced?	No	Correct value provided for estimation?	No	Has this value been verified?	No	Measurement method correctly described?	No	Correct reference to standards?	No	Indication of accuracy provided?	No	See CAR17	<input checked="" type="checkbox"/>				
Monitoring Checklist	Yes / No																												
Title in line with methodology?	No																												
Data unit correctly expressed?	No																												
Appropriate description of parameter?	No																												
Source clearly referenced?	No																												
Correct value provided for estimation?	No																												
Has this value been verified?	No																												
Measurement method correctly described?	No																												
Correct reference to standards?	No																												
Indication of accuracy provided?	No																												

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD																								
		QA/QC procedures described?	No																										
		QA/QC procedures appropriate?	No																										
		See CAR17																											
B.7.1.28. Parameter Title: Availability of a surplus of biomass residue type k (which can not be sold or utilized) at the ultimate supplier to the project and a representative sample of other suppliers in the defined geographical region.	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>No</td></tr><tr><td>Data unit correctly expressed?</td><td>No</td></tr><tr><td>Appropriate description of parameter?</td><td>No</td></tr><tr><td>Source clearly referenced?</td><td>No</td></tr><tr><td>Correct value provided for estimation?</td><td>No</td></tr><tr><td>Has this value been verified?</td><td>No</td></tr><tr><td>Measurement method correctly described?</td><td>No</td></tr><tr><td>Correct reference to standards?</td><td>No</td></tr><tr><td>Indication of accuracy provided?</td><td>No</td></tr><tr><td>QA/QC procedures described?</td><td>No</td></tr><tr><td>QA/QC procedures appropriate?</td><td>No</td></tr></table>		Monitoring Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	No	Appropriate description of parameter?	No	Source clearly referenced?	No	Correct value provided for estimation?	No	Has this value been verified?	No	Measurement method correctly described?	No	Correct reference to standards?	No	Indication of accuracy provided?	No	QA/QC procedures described?	No	QA/QC procedures appropriate?	No	See CAR17	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																												
Title in line with methodology?	No																												
Data unit correctly expressed?	No																												
Appropriate description of parameter?	No																												
Source clearly referenced?	No																												
Correct value provided for estimation?	No																												
Has this value been verified?	No																												
Measurement method correctly described?	No																												
Correct reference to standards?	No																												
Indication of accuracy provided?	No																												
QA/QC procedures described?	No																												
QA/QC procedures appropriate?	No																												
		See CAR17																											
B.7.1.29. Parameter Title: On-site electricity consumption attributable to the project activity during the year y EC _{PJ,y}	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>No</td></tr><tr><td>Data unit correctly expressed?</td><td>No</td></tr><tr><td>Appropriate description of parameter?</td><td>No</td></tr><tr><td>Source clearly referenced?</td><td>No</td></tr><tr><td>Correct value provided for estimation?</td><td>No</td></tr><tr><td>Has this value been verified?</td><td>No</td></tr><tr><td>Measurement method correctly described?</td><td>No</td></tr><tr><td>Correct reference to standards?</td><td>No</td></tr><tr><td>Indication of accuracy provided?</td><td>No</td></tr></table>		Monitoring Checklist	Yes / No	Title in line with methodology?	No	Data unit correctly expressed?	No	Appropriate description of parameter?	No	Source clearly referenced?	No	Correct value provided for estimation?	No	Has this value been verified?	No	Measurement method correctly described?	No	Correct reference to standards?	No	Indication of accuracy provided?	No	See CAR17	<input checked="" type="checkbox"/>				
Monitoring Checklist	Yes / No																												
Title in line with methodology?	No																												
Data unit correctly expressed?	No																												
Appropriate description of parameter?	No																												
Source clearly referenced?	No																												
Correct value provided for estimation?	No																												
Has this value been verified?	No																												
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Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD																								
		QA/QC procedures described?	No																										
		QA/QC procedures appropriate?	No																										
		See CAR17																											
B.7.1.30. Parameter Title: Use the latest approved version of ACM0002 to calculate the grid emission factor. If the power generation capacity of the project plant is less or equal to 15 MW, project participants may use the average CO2 emission factor of the electricity system, as referred to in option (d) in step 1 of the baseline determination in ACM0002. $EF_{grid,y}$	1,2	Not applicable.		☑	☑																								
B.7.1.31. Parameter Title: Quantity of biomass residue type k combusted in all power plants at the project site during the year y Source of data: On-site measurements $BF_{all\ plants,k,y}$	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided for estimation?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr><tr><td>Correct reference to standards?</td><td>N/A</td></tr><tr><td>Indication of accuracy provided?</td><td>N/A</td></tr><tr><td>QA/QC procedures described?</td><td>N/A</td></tr><tr><td>QA/QC procedures appropriate?</td><td>N/A</td></tr></table>		Monitoring Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided for estimation?	N/A	Has this value been verified?	N/A	Measurement method correctly described?	N/A	Correct reference to standards?	N/A	Indication of accuracy provided?	N/A	QA/QC procedures described?	N/A	QA/QC procedures appropriate?	N/A	☑	☑
Monitoring Checklist	Yes / No																												
Title in line with methodology?	N/A																												
Data unit correctly expressed?	N/A																												
Appropriate description of parameter?	N/A																												
Source clearly referenced?	N/A																												
Correct value provided for estimation?	N/A																												
Has this value been verified?	N/A																												
Measurement method correctly described?	N/A																												
Correct reference to standards?	N/A																												
Indication of accuracy provided?	N/A																												
QA/QC procedures described?	N/A																												
QA/QC procedures appropriate?	N/A																												
B.7.1.32. Parameter Title: CO2 emission factor of the most carbon	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr></table>		Monitoring Checklist	Yes / No	☑	☑																						
Monitoring Checklist	Yes / No																												

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD
intensive fuel used in the country EF _{CO2,LE}		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.33. Parameter Title: CO2 emission factor for the fossil fuel used in the captive power plant EF _{CP,CO2}	1,2	Monitoring Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.2. Description of the monitoring plan					
B.7.2.1. Is the operational and management structure clearly described and in	1,2	National Gaotang Bio Energy Co., Ltd will be responsible for car-		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
compliance with the envisioned situation?		rying out the monitoring plan.		
B.7.2.2. Are responsibilities and institutional arrangements for data collection and archiving clearly provided?	1,2	The selected monitoring staff of Gaotang Bio Energy will be trained to collect and record the monitoring data.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.7.2.3. Does the monitoring plan provide current good monitoring practice?	1,2	Yes, the monitoring application mainly includes the data management system and the CDM working group. The responsibility of the two groups is clearly described.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.7.2.4. If applicable: Does annex 4 provide useful information enabling a better understanding of the envisioned monitoring provisions?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.8. Date of completion of the application of the baseline study and monitoring methodology an the name of the responsible person(s)/entity(ies)				
B.8.1. Is there any indication of a date when the baseline was determined?	1,2	Yes, on 25/12/2006 the baseline was determined	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.8.2. Is this consistent with the time line of the PDD history?	1,2	Yes, it is consistent with the time line of the PDD history.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.8.3. Is the information on the person(s) / entity(ies) responsible for the application of the baseline and monitoring methodology provided consistent with the actual situation?	1,2	Yes. Ms. Zhao Xin from EDF Trading Co., Ltd determined the baseline and monitoring methodology.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.8.4. Is information provided whether this person / entity is also considered a project participant?	1,2	Yes, according to the information provided in the chapter A.3 of the PDD, Ms. Zhao Xin is not a project participant.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
C. Duration of the project activity / crediting period				
C.1. Duration of the project activity				
C.1.1. Are the project's starting date and operational lifetime clearly defined and reasonable?	1,2	<u>Corrective Action Request No.18.</u> The project starting date is 01/05/2006.but the operational life time is not consistent with the feasibility study.	CAR18	<input checked="" type="checkbox"/>
C.2. Choice of the crediting period and related information				
C.2.1. Is the assumed crediting time clearly defined and reasonable (renewable crediting period of max 7 years with potential for 2 renewals or fixed crediting period of max. 10 years)?	1,2	<u>Corrective Action Request No.19.</u> Please correct the starting date of the crediting period and confirm that the starting date will be after registration.	CAR19	<input checked="" type="checkbox"/>
D. Environmental impacts				
D.1. Documentation on the analysis of the environmental impacts, including transboundary impacts				
D.1.1. Has the analysis of the environmental impacts of the project activity been sufficiently described?	1,2,8,9	Yes, the environmental impacts of the project activity such as waste gas, waste water, noise and solid waste have been clearly described.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D.1.2. Are there any Host Party requirements for an Environmental Impact Assessment (EIA), and if yes, has an EIA been approved?	1,2	Yes, an EIA is a must in P. R. China for new construction projects.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D.1.3. Will the project create any adverse environmental effects?	1,2,8,9	The waste flue gas during construction of the project is the main air pollution source, bag-type two-step dust extractor will be implemented to reduce the waste gas emission, according to the EIA, the air pollution is not significant.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
D.1.4. Were transboundary environmental impacts identified in the analysis?	1,2,8	Whether there are transboundary impacts is not described in the PDD, but there are no transboundary effects to be expected.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D.2. If environmental impacts are considered significant by the project participants or the host Party, please provide conclusions and all references to support documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party				
D.2.1. Have the identified environmental impacts been addressed in the project design sufficiently?	1,2	Preventive measures like implementation of advanced Danish soot reduction technology, separate water drainage system, wastewater treatment, selection of low noise equipments, the utilization of ash as fertilizers have been clearly described.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D.2.2. Does the project comply with environmental legislation in the host country?	1,2,9	Yes. The project is conformity with the environmental legislation of P. R. China.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E. Stakeholders' comments				
E.1. Brief description how comments by local stakeholders have been invited and compiled				
E.1.1. Have relevant stakeholders been consulted?	1,2,2 1	Yes. The relevant stakeholders have been consulted via a questionnaire. 61 copies of questionnaires were distributed and 61 sheets with comments were gathered. No negative comments were given from the respondents. The documents have been reviewed by the DOE. <u>Corrective Action Request No.20.</u> Please clearly describe how the relevant stakeholders were selected? Was there a public announcement of the project prior to construction?	CAR20	<input checked="" type="checkbox"/>
E.1.2. Have appropriate media been used to invite comments by local stakeholders?	1,2	Comments have been gathered by the questionnaire.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.1.3. If a stakeholder consultation process is required by regulations/laws in the host	1,2	There are no regulations/laws in China for carrying out the stake-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION		Ref.	COMMENTS	PDD in GSP	Final PDD
country, has the stakeholder consultation process been carried out in accordance with such regulations/laws?			holder consultation process for this project activity.		
E.1.4.	Is the undertaken stakeholder process that was carried out described in a complete and transparent manner?	1,2	Yes. Confirmed with the detailed documents which are reviewed on site, the process is described in a complete and transparent manner	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.2. Summary of the comments received					
E.2.1.	Is a summary of the received stakeholder comments provided?	1,2	There is a summary of the stakeholder comments in chapter E.2 of the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.3. Report on how due account was taken of any comments received					
E.3.1.	Has due account been taken of any stakeholder comments received?	1,2	There is a summary regarding the concerns of some respondents in chapter E3 in the PDD. In conclusion the implementation of the project will not influence the water supply, and the fuel price. The emission of pollutants is below the national standards. Design of compact layout will also be adopted to reduce land occupation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F. Annexes 1 - 4					
Annex 1: Contact Information					
F.1.1.	Is the information provided consistent with the one given under section A.3?	1,2	Yes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.1.2.	Is the information on all private participants and directly involved Parties presented?	1,2	Yes. The information about National Bio Energy Co. Ltd and EDF Trading Co., Ltd.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Annex 2: Information regarding public funding					
F.1.3.	Is the information provided on the inclu-	1,2,1	Yes. There is no public funding necessary; all costs are covered	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION		Ref.	COMMENTS	PDD in GSP	Final PDD
	sion of public funding (if any) in consistency with the actual situation presented by the project participants?	2	by private equity and bank loans.		
F.1.4.	If necessary: Is an affirmation available that any such funding from Annex-I-countries does not result in a diversion of ODA?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Annex 3: Baseline information					
F.1.5.	If additional background information on baseline data is provided: Is this information consistent with data presented by other sections of the PDD?	1,2	Yes. The NDRC released emission factors of North China Grid are adopted.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.1.6.	Is the data provided verifiable? Has sufficient evidence been provided to the validation team?	1,2	See CAR15, CR2.	See CAR15, CR2	<input checked="" type="checkbox"/>
F.1.7.	Does the additional information substantiate / support statements given in other sections of the PDD?	1,2	Yes, the additional information supports statements given in the chapter B.6.1 of the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Annex 4: Monitoring information					
F.1.8.	If additional background information on monitoring is provided: Is this information consistent with data presented in other sections of the PDD?	1,2	No, there is no additional information in Annex 4.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.1.9.	Is the information provided verifiable? Has sufficient evidence been provided to the validation team?	1,2	N/A.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.1.10.	Do the additional information and / or documented procedures substantiate /	1,2	N/A.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
support statements given in other sections of the PDD?				

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

Table 2 Resolution of Corrective Action and Clarification Requests

Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of project owner response	Validation team conclusion
<p>The available PDD is indicated as 03 version dated 10/04/2007.</p> <p><u>Corrective Action Request No.1.</u></p> <p>A revision history of the PDD should be included.</p>	A.1.2.	<p>A revision history of the PDD has been described in A.1.</p> <p><u>DOE's First Response:</u></p> <p>The revision history has been included. But during the further review it has been detected that the geographic coordinates refer to the province and not to the project site (page 4). This has to be revised.</p> <p><u>Project Owner's Second Response:</u></p> <p>Geographic coordinates of the project site have been described in revised PDD.</p>	<p>☑</p>
<p>The project is not described transparently.</p> <p><u>Corrective Action Request No.2.</u></p> <p>Please clearly indicate what kind of biomass will be used: cotton stalk or maize stalk or others?</p>	A.2.1.	<p>The proposed project mainly adopts renewable cotton stalk as fuels in the FSR. If other biomass than cotton stalk are used in operation, the fuel type k and its weight will be monitored according to the description in B.7.1.</p>	<p>☑</p> <p>The supplement information of the fuel type have been confirmed and added into the part B.7.1 to be monitored.</p>
<p><u>Corrective Action Request No.3.</u></p> <p>Please describe the technology implemented by the project activity in a transparent manner and give the detailed information about the key points especially regarding the electricity generation and the boiler fuel.</p>	A.4.3.1.	<p>Besides the technology of Straw Direct Burning boiler, other key points regarding the electricity generator, the turbine has been detailed described in A.4.3 of the revised PDD.</p>	<p>☑</p>
<p>The training materials for power plant staffs include the operating information and the</p>	A.4.3.9.	<p>The training schedule has been provided and it has been shortly described in PDD.</p>	<p>☑</p> <p>The training schedule is</p>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of project owner response	Validation team conclusion
<p>CDM monitoring regulations etc, these documents have been reviewed by the auditor.</p> <p><u>Corrective Action Request No.4.</u></p> <p>Please deliver the training schedule and shortly describe it in the PDD.</p>			added into the part of B.7.2 in the PDD
<p><u>Corrective Action Request No.5.</u></p> <p>Chapter A.4.4, year 2007 and 2014, the emission reductions can not be written with commas. 0.5 ton is not allowed.</p>	A.4.4.1	The commas have been removed.	<input checked="" type="checkbox"/>
<p><u>Corrective Action Request No.6.</u></p> <p>The crediting period will start after the registration of this project, so the starting and the ending date should be consistent with the project time line.</p>	A.4.4.2.	The starting date has been revised, so that the starting and the ending date can be consistent with the project time line.	<input checked="" type="checkbox"/> The crediting time has been changed in the revised PDD from the date 01/07/2007 to 01/12/2007.
<p><u>Corrective Action Request No.7.</u></p> <p>Please clearly describe which kind of co-fired fuel is used for the project activity.</p>	B.2.3.	Besides the cotton stalk, no co-fired fuel is used.	<input checked="" type="checkbox"/>
<p><u>Corrective Action Request No.8.</u></p> <p>Please describe the collection procedure of cotton stalk based on the real project activity.</p>	B.2.5.	In order to guarantee the fuel supply of the project, seven individual stalk collection stations around the project site and one large stalk collection station at the project site are constructed. The farmers sell their cotton stalks in the nearest stalk collection, which will be cut into pieces, bundled regularly and transported to one large stalk collection station at the project site. The detailed collection procedure of cotton stalk is described in A.4.3 of the revised PDD.	<input checked="" type="checkbox"/>
<u>Corrective Action Request No.9.</u>	B.2.6.	It is assumed that the electricity consumption at the 8	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of project owner response	Validation team conclusion
The electricity used for the preparation of the biomass residue from the 8 biomass residue storage sites should be taken into account of the project emission. E.g. the shredders and other machines used for the preparation of the biomass residue.		biomass residue storage sites is 10 KWh/ton cotton stalk consumed in power plant. Compared with the expected actual electricity consumption, this value is more conservative, and the meters will be installed at 8 biomass residue storage sites to measure the actual electricity purchased from the grid.	The value applied for calculating the expected emission reductions is 1 210 MWh. This corresponds to the calculation method as described in the response.
<u>Corrective Action Request No.10.</u> Please provide all information using international units (SI). For example, mu is no international unit and outside China no EB member can assess this unit.	B.4.4.	All the relevant units have been revised.	<input checked="" type="checkbox"/>
Yes, the benchmark analysis is applied. <u>Corrective Action Request No.11.</u> The benchmark analysis should be only in English. And the annual heat supplied should not be included in the sensitive analysis since there is no heat supply plan in the proposed project activity. Moreover, it has to be clarified if straw or cotton stalk will be used. The evidence for the quite high biomass price has to be delivered including an English translation.	B.5.1.	The benchmark analysis sheets are supplied to DOE for verifying including both Chinese and English. If needed, Chinese in the sheets can be removed. Four parameters were selected as sensitive factors to check out the financial attractiveness: 1) Total Investment for Capital Assets 2) Annual Electricity Generated 3) Annual O&M cost (excluding fuel cost) 4) cotton stalk Price And the annual heat supplied was included in the sensitive analysis in the PDD Version 3.0 just because of clerical error, which is removed in the revised PDD.	<input checked="" type="checkbox"/> The cotton straw price has been verified by the local auditor based on the Cotton Stalk Purchase Agreement.
<u>Corrective Action Request No.12.</u> The formula of PEFFy is missing partially.	B.6.1.4.	The formula has been revised.	<input checked="" type="checkbox"/>
<u>Corrective Action Request No.13.</u> Please list the parameters based on the re-	B.6.2.1.	All the parameters and the correct unit are corrected according to the requirement of applied methodology.	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of project owner response	Validation team conclusion
requirement of the applied methodology. Use the correct parameter and the correct unit, e.g. the unit of NCVi is GJ but not TJ.			
<p><u>Corrective Action Request No.14.</u></p> <p>According to the cotton stalk collection records from the collection sites, the moisture data of the cotton stalk is available (around 10%--30% according to some sample records from the on-site visit, < 10% according to the feasibility study), so the quantity of biomass residues in the projection has to be revised, as well the relevant statement in the PDD.</p> <p>The parameter: Biomass moisture content has to be listed in the chapter B.6.2 of the PDD.</p>	B.6.2.2.	<p>The estimated annual cotton stalks consumption and moisture content come from the Feasibility Report, which are 121,000 and 9.61% respectively. The value of dry matter will be calculated according to them in PDD, and the actual values will be monitored later, as described in the methodology.</p> <p>According to the methodology, the parameter, Biomass moisture content, should be listed in B.7.1, since the proposed project complies with the scenario 2.</p>	<input checked="" type="checkbox"/>
<p><u>Corrective Action Request No.15.</u></p> <ul style="list-style-type: none"> - The NDRC latest released emission factors have to be considered. Though the 3 years average OM factor is the same, but the OM factor in each year from 2002-2004 has some small changes in the latest released data. - There is a small mistake about the data source of the carbon oxidation factor of diesel. It is from IPCC 1996 default value. - The leakages are considered to be zero because there is no other use of biomass but in B.5. additional risks 	B.6.3.2.	<p>Response to Question 1: It has been revised according to IPCC 2006.</p> <p>Response to Question 2: It has been revised according to IPCC 2006.</p> <p>Response to Question 3: A detailed survey of the biomass supply / demand situation in the area has been arranged. The leakages could be considered to be zero according to the applied methodology. The detailed leakage analysis is provided in B.6.</p> <p>In B.5, additional risks such as potential rising straw price are claimed. However, potential rising straw price risk exists due to without a long-term contract to hedge</p>	<input checked="" type="checkbox"/> Has been verified by the local auditor.

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of project owner response	Validation team conclusion
<p>are claimed due to rising straw prices caused by other power plants using the same fuel. Please clarify and correct if necessary.</p> <p>The above revision will not impact the Emission Reduction.</p>		<p>the straw price with dispersed farmers, not caused by other power plants using the same fuel because there is no other use of biomass within 50 kms around the project site. The Shandong Shiliquan straw mix with coal generation project is just an example to demonstrate the real existence of straw price rising for biomass power project, which is far away outside the project boundary (It is nearly more than 250 kilometers from the project site).</p>	
<p><u>Corrective Action Request No.16.</u></p> <p>Please include a time schedule of the implementation of the project starting with the planning, consideration of CDM to operation.</p>	B.6.4.3.	It has been described in Chapter A.2 in page 2.	<input checked="" type="checkbox"/>
<p><u>Corrective Action Request No.17.</u></p> <p>Some listed parameters are not clearly presented, please correct those parameters regard to the requirements of the applied methodology. The combustion parameters for all kind of biomass have to be monitored separately! The monitoring method has to be described. Especially the standards that are referred to the accuracy, the calibration method of the measurement equipment and the frequency of the calibration have to be indicated clearly.</p> <p>According to the methodology, the following parameters have to be monitored:</p>	B.7.1.1.	<p>The parameters already listed have been clearly presented. And some other parameters necessary for the proposed project have been added according to the applied methodology.</p> <p><u>DOE's First Response:</u></p> <p>The requested monitoring procedures have been added but during further review it has been detected that for the parameter TLy (average load of the trucks used for transportation of biomass) no QA/QC procedures have been described on page 36. Please add.</p> <p><u>Project Owner's Second Response:</u></p> <p>It has been added in revised PDD.</p>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of project owner response	Validation team conclusion
<ul style="list-style-type: none"> - $EF_{CO_2,BF}$: Average CO2 emission factor for the trucks during the year y - CO2 emission factor for fossil fuel type i $EF_{CO_2,FF,i}$ - Net calorific value of the fossil fuel type i NCV_i - CH4 emission factor for uncontrolled burning of the biomass residue type k during the year y $EF_{burning,CH_4,k,y}$ - Quantity of biomass residues of type k that are utilized (e.g. for energy generation or as feedstock) in the defined geographical region - Quantity of available biomass residues of type k in the region - On-site electricity consumption attributable to the project activity during the year y $EC_{PJ,y}$ - Quantity of biomass residue type k combusted in all power plants at the project site during the year y Source of data: On-site measurements $BF_{all\ plants,k,y}$ 			

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service

Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of project owner response	Validation team conclusion
- Surplus all types of biomass supply in the region.			
<u>Corrective Action Request No.18.</u> The project starting date is 01/05/2006.but the operational life time is not consistent with the feasibility study.	C.1.1.	The operational life time is revised consistent with the feasibility study.	<input checked="" type="checkbox"/>
<u>Corrective Action Request No.19.</u> Please correct the starting date of the crediting period and confirm that the starting date will be after registration.	C.2.1.	The starting date of the crediting period is revised according to the estimation of the registration date.	<input checked="" type="checkbox"/>
<u>Corrective Action Request No.20.</u> Please clearly describe how the relevant stakeholders were selected? Was there a public announcement of the project prior to construction?	E.1.1.	The relevant description has been added in E.1.	<input checked="" type="checkbox"/>
<u>Open Issue</u> The participation has to be confirmed by the MoC.	A.3.2.	The MOC will be signed between the project owner and the EDF, and then it will be sent to DOE for confirmation before the registration request.	<input checked="" type="checkbox"/>
<u>Clarification request1:</u> A version that can be uploaded to the UNFCCC web page (Excel) has to be delivered. The CER's price is not consistent with the price in the purchasing agreement, which signed with the EDF trading Co., Ltd. And the construction life is shorter than the crediting period. All the values calculated for the IRR	B.5.8.	The CER's price in the PDD was just expected before GSP because that the final purchasing agreement is still in negotiation between the project owner and the CERs buyer at that time. And furthermore, the CER's price in the PDD need not be consistent strictly with the price in the purchasing agreement. All the values calculated for the IRR analysis are consistent with the feasibility study except for the feed-in-	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Gaotang 30MW Biomass Power Generation Project

Date of Completion: 02/10/2007

Number of Pages: 56



Industrie Service


Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of project owner response	Validation team conclusion
analysis should be consistent with the feasibility study.		tariff and the cotton stalk price. The evidences of these two parameters assumption are described detailed in the revised PDD.	
Clarification request 2: A comparison between NDRC grid values and the values required by the methodology (IPCC2006 default data) has to be submitted to the DOE, the more conservative values should be used.	B.6.3.2.	According to the NDRC grid values (http://cdm.ccchina.gov.cn/web/NewsInfo.asp?NewsId=1235), the Combined Emission Factor of North China Grid is about 0.983, which is larger than the value of 0.975 applied in the PDD. Therefore, the value of 0.975 is used as the conservative one.	<input checked="" type="checkbox"/>

Table 3 Unresolved Corrective Action and Clarification Requests (in case of denials)

Clarifications and / or corrective action requests by validation team	Id. of CAR/CR	Explanation of Conclusion for Denial
-	-	-




Annex 2: Information Reference List

Final Report	2007-10-02	Validation of the “Gaotang 30MW Biomass Power Generation Project” information Reference List	Page 1 of 2	 Industrie Service
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Reference No.	Document or Type of Information
1.	Project Design Document for CDM project “Gaotang 30MW Biomass Power Generation Project”, version 03
2.	Consolidated methodology for grid-connected power generation from biomass residues ACM0006 ,version 04
3.	Tool for the demonstration and assessment of additionality, version 03
4.	Participant list of on-site interview, signed on May, 24 th , 2007

5.	<p>Validation team:</p> <table> <tr> <td>Dr. Sven Kolmetz</td><td>TÜV SÜD Industrie Service GmbH</td></tr> <tr> <td>Mr. Konrad Tausche</td><td>TÜV SÜD Industrie Service GmbH</td></tr> <tr> <td>Ms. Xiaoyan Liu</td><td>Jiangsu TUV Product Service Ltd.</td></tr> <tr> <td>Ms. Chen Xiaoying</td><td>Jiangsu TUV Product Service Ltd.</td></tr> </table> <p>On-site interviews at the project site Gaotang country, Liaocheng city, Shandong province, P. R.China. 30th, May,2007 by auditing team of TÜV SÜD:</p> <p>Interviewed persons:</p> <table> <tr> <td>Mr. Wang Wenhua</td><td>Vice general manager of “Gaotang biomass power generation Co., Ltd”</td></tr> <tr> <td>Ms. Zhu Wen</td><td>Vice general manager of “Gaotang biomass power generation Co., Ltd”</td></tr> <tr> <td>Mr. Li Huaqiang</td><td>Manager of fuel department of “Gaotang biomass power generation Co., Ltd”</td></tr> <tr> <td>Mr. Li Weitang</td><td>Manager of integration department of “Gaotang biomass power generation Co., Ltd”</td></tr> <tr> <td>Ms. Guo Xin</td><td>Manager of CDM department of “National Bio Energy Co., Ltd”</td></tr> <tr> <td>Mr. Wang Yong</td><td>Chief leader of the daily operation team of “Gaotang biomass power generation Co., Ltd”</td></tr> <tr> <td>Mr. Wang Haifeng</td><td>Manager of safety department of “Gaotang biomass power generation Co., Ltd”</td></tr> <tr> <td>Ms. Zhao Xin</td><td>CDM manager of EDF</td></tr> <tr> <td>Mr. Sun Xu</td><td>Assistant of CDM manager of EDF</td></tr> </table>	Dr. Sven Kolmetz	TÜV SÜD Industrie Service GmbH	Mr. Konrad Tausche	TÜV SÜD Industrie Service GmbH	Ms. Xiaoyan Liu	Jiangsu TUV Product Service Ltd.	Ms. Chen Xiaoying	Jiangsu TUV Product Service Ltd.	Mr. Wang Wenhua	Vice general manager of “Gaotang biomass power generation Co., Ltd”	Ms. Zhu Wen	Vice general manager of “Gaotang biomass power generation Co., Ltd”	Mr. Li Huaqiang	Manager of fuel department of “Gaotang biomass power generation Co., Ltd”	Mr. Li Weitang	Manager of integration department of “Gaotang biomass power generation Co., Ltd”	Ms. Guo Xin	Manager of CDM department of “National Bio Energy Co., Ltd”	Mr. Wang Yong	Chief leader of the daily operation team of “Gaotang biomass power generation Co., Ltd”	Mr. Wang Haifeng	Manager of safety department of “Gaotang biomass power generation Co., Ltd”	Ms. Zhao Xin	CDM manager of EDF	Mr. Sun Xu	Assistant of CDM manager of EDF
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Ms. Zhao Xin	CDM manager of EDF																										
Mr. Sun Xu	Assistant of CDM manager of EDF																										
6.	Feasibility Study Report for “Gaotang 30MW Biomass Power generation Plant”, issued by Shandong Luneng power design institute, dated March, 2006.																										

Final Report	2007-10-02	Validation of the "Gaotang 30MW Biomass Power Generation Project" information Reference List	Page 2 of 2	 Industrie Service
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7.	Approval of Feasibility Study Report of "Gaotang 30MW Biomass Power generation Plant", issued by Shandong development and reform commission, dated June, 2006.
8.	EIA Report for CDM project "Gaotang 30MW Biomass Power generation Plant", issued by National Environmental protection bureau, dated 26 th , March, 2006.
9.	Approval of EIA Report for CDM project "Gaotang 30MW Biomass Power generation Plant", issued by Shandong Environmental Protection Bureau ,dated 10 th , April, 2006
10.	Business license of "Gaotang Bio Energy power generation Co., Ltd, issued by Gaotang city administration for industry and commerce. Dated 9 th , Feb, 2007
11.	The taxation registration certificate, issued by Gaotang state administration of taxation, dated 7 th . March, 2007
12.	Bank loan contract with China communication bank, dated 19 th , Jan, 2007
13.	The electricity purchasing contract with Liaocheng power grid company, dated 6 th , Feb, 2006
14.	Cotton stalk purchase contract with farmers, dated November, 2006
15.	Cotton stalk transportation contract with Gaotang the third transportation company, dated 29 th , November, 2006
16.	Cotton stalk stock sites electricity purchasing invoice sample, dated from January to April, 2007
17.	EAPA CDM emission reduction purchase agreement with EDF trading, dated 16 th , March, 2007
18.	Plant staff training documents (including equipments, financing, and CDM etc.), dated September, 2006
19.	Cotton stalk distribute document, which contains the moisture data(around 15%), dated 23 rd , May, 2007
20.	Prove document of no existing biomass project with in the radius of 50km, verified by Gaotang development and reform commission, dated 23 rd , May, 2007
21.	Local Stakeholders' comments questionnaire sample, dated January, 2006
22.	Grid connection contract with Liaocheng power grid company, dated 15 th , December, 2006.
23.	Resolution of startup CDM project by Board of "Gaotang biomass power generation Co., Ltd" Dated 18 th , Jan, 2006
24.	The electricity meter calibration record of "Gaotang biomass power generation Co., Ltd", dated 17 th , May, 2007
25.	Renewable Energy Promotion Low and Renewable Energy.
26.	Final Project Design Document for CDM project "Gaotang 30MW Biomass Power Generation Project", version 05,
27.	Hard copy of foot note No.5.2 "Shandong province coal fired power price notice", issued by Shandong DRC, dated May 2005. submission date Aug 6 th , 2007.
28.	Hard copy of "Renewable energy power price subsidiary notice ", issued by NDRC, dated Jan 2006. Submission dated Aug 6 th , 2007.
29.	LoA of China, LoA of UK, submission date 15th, July 2007.