



**CDM Project Activity Registration
and Validation Report Form**
*(By submitting this form, designated operational entity confirms
that the proposed CDM project activity meets all validation and
registration requirements and thereby requests its registration)*

Section 1: Request for registration

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| Name of the designated operational entity (DOE) submitting this form | Det Norske Veritas AS.(DNV) |
| Title of the proposed CDM project activity (Section A.2 of the attached CDM-PDD) submitted for registration | Zhangbei Manjing Windfarm Project |
| Project participants (Name(s)) | <ul style="list-style-type: none"> - Beijing Guotou Energy Conservation Company (BJGT). - First Carbon Fund Ltd. |
| Sector in which project activity falls | Sectoral Scope – 01, Energy Industry |
| Is the proposed project activity a small-scale activity? | Yes / <u>No</u> (underline as applicable) |

Section 2: Validation report

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| List of documents to be attached to this validation report (please check mark): | |
| <ul style="list-style-type: none"> <input checked="" type="checkbox"/> The CDM-PDD of the project activity <input checked="" type="checkbox"/> An explanation by the submitting designated operational entity of how it has taken due account of comments on validation requirements received, in accordance with the CDM modalities and procedures, from Parties, stakeholders and UNFCCC accredited non-governmental organizations (Note: Included in DNV's Validation report 2005-0826, rev. 01) <input checked="" type="checkbox"/> The written approval of voluntary participation from the designated national authority of each Party involved, including confirmation by the host Party that the project activity assists it in achieving sustainable development: <ul style="list-style-type: none"> ○ Attach a list of all Parties involved and attach the approval (in alphabetical order) <input checked="" type="checkbox"/> Other documents, including any validation protocol used in the validation <ul style="list-style-type: none"> ○ Validation report (DNV Report 2005-0826, rev. 01), including validation protocol and a list of persons interviewed by the validation team during the validation process. <input checked="" type="checkbox"/> Information on when and how the above validation report is made publicly available. <input checked="" type="checkbox"/> Banking information on the payment of the non-reimbursable registration fee <input checked="" type="checkbox"/> A statement signed by all project participants stipulating the modalities of communicating with the Executive Board and the secretariat in particular with regard to instructions regarding allocations of CERs at issuance | |

Executive Summary and Introduction, including

- **Description of the proposed CDM project activity**
- **Scope of validation process (include all documentation that has been reviewed and name persons that have been interviewed as part of the validation, as applicable)**
- **DOE Validation team (list of all persons involved in the validation, describing functions assumed in the validation)**

The Zhangbei Manjing Windfarm project involves the installation of 30 turbines, each of which has a capacity of 1500kW, providing a total of 45 MW. The site also benefits from a strong transmission system nearby, as it is close to several power generation bases for the North China Power Grid. The proposed project is expected to generate approximately 108GWh per year, which will be exported to the grid.

The validation scope is defined as an independent and objective review of the project design document (PDD). The PDD is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords, the criteria contained in the approved baseline and monitoring methodology AM0005 and the relevant decisions by the CDM Executive Board. The validation team has, based on the recommendation in the IETA/PCF Validation and Verification Manual, employed a risk-based approach, focusing on the identification of significant risks for the project implementation and the generation of CERs.

The following documents were assessed:

- ☒ Beijing Guotou Energy Conservation Company and IT Power, CDM PDD, first version dated 4 April and Version 3.3 of 8 December 2005, for "Zhangbei Manjing Windfarm project",
- ☒ Beijing Guotou Energy Conservation Company: Zhangbei windfarm project feasibility study report and Approval letter by the Hebei Development & Reform Commission, 3 August 2004.
- ☒ Beijing Guotou Energy Conservation Company: Zhangbei Windfarm project environmental Impact Assessment report, Approval letter by the Hebei Environmental Protection Bureau, 21 April 2004.
- ☒ Letter of Approval from China (Host party) DNA, 16 August 2005.
- ☒ Letter of Approval from United Kingdom of Great Britain and Northern Ireland (Annex-1 party) DNA, 09 September 2005
- ☒ *International Emission Trading Association (IETA) & the World Bank's Prototype Carbon Fund (PCF): Validation and Verification Manual*
- ☒ *CDM EB, Approved baseline and monitoring methodology AM0005: baseline methodology (barrier analysis, baseline scenario development and baseline emission rate, using combined margin) for small grid-connected zero-emissions renewable electricity generation. Version 01 of 14 April 2004*

The following persons were interviewed:

- Huang Gengxin, Project Manager, Beijing Guotou Energy Conservation Company
- Qian Yiwen, Senior Project Manager, IT Power
- Liu Jinze, Assistant Consultant, IT Power
- Cristiaan Vrolijk, Senior Energy Specialist, IT Power.

The validation team consisted of the following personnel:

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|---------------------|------------------------|----------------------------------------|
| Mr Hao Xiang Jiang | DNV China Team Leader, | GHG Auditor |
| Mr. Michael Lehmann | DNV Oslo | Energy Sector Specialist, GHG Auditor. |
| Ms. Susanne Haefeli | DNV Oslo | Technical Reviewer |

For further details, please refer to the "Introduction" and "References" Section of DNV's Validation Report (DNV Report 2005-0826, rev. 01).

Description of methodology for carrying out validation

- **Review of CDM-PDD and additional documentation attached to it**
- **Assessment against CDM requirements (e.g. by use of a validation protocol)**
- **Report of findings by the DOE, e.g. by use of type of findings (e.g. corrective action requests, clarifications or observations). Please explain the way findings are "labelled" during validation.**
- **Include statements or assessments in the section "Conclusions, final comments and validation opinion" below.**

The validation of the project consisted of the following three phases:

- i) A desk review of the project design document.
- II Follow-up interviews with project stakeholders
- III The resolution of outstanding issues and the issuance of the Final validation report and opinion.

The project design document by Beijing Guotou Conservation Company and IT Power and additional background documents related to the project design and baseline were reviewed. On 7 and 8 October 2005, DNV performed interviews with project stakeholders to confirm selected information and to resolve issues identified in the document review.

In order to ensure transparency, a validation protocol has been customised for the project, according to the validation and Verification Manual. The protocol shows, in a transparent manner, criteria (requirements), means of verification and the results from validation the identified criteria.

Findings established during the validation can either be seen as a non-fulfilment of validation criteria or where a risk to the fulfilment of project activities is identified. Such findings are termed Corrective Action Requests (CAR). The term Clarification may be used where additional information is needed to fully clarify an issue.

The Corrective Action Requests and request for Clarification raised by DNV were resolved through communications with the project participants. To guarantee the transparency of the validation process, the concerns raised by DNV and the response provided by the project participants are documented in Table 3 of the Validation Protocol in Appendix A to the Validation Report (DNV Report 2005-0826, Rev. 01)

For further details, please refer to the "Methodology" Section OF DNV's Validation Report (DNV Report 2005-0826, rev. 01) and the IETA/PCF Validation and Verification Manual (www.vvmanual.info).

Explanation by the submitting designated operational entity of how it has taken due account of comments on validation requirements received, in accordance with the CDM modalities and procedures, from Parties, stakeholders and UNFCCC accredited non-governmental organizations;

- **Description of how and when the PDD was made publicly available**
- **Description of how comments were received and made publicly available**
- **Explanation of how due account has been taken of comments received**
- **Compilation of all comments received (Identify the submitter)**

The Zhangbei Manjing Windfarm PDD, April 2005 was published on DNV's Climate change website - <http://www.dnv.com/certification/climatechange/Projects/ProjectDetails.asp?ProjectId=162> and parties, stakeholders and NGOs were invited through CDM website to provide comments on the validation requirement during the period of 30 days from 28 April 2005 to 28 May 2005. One comment was received which was in favour of the project activity and hence no action was taken by DNV.

Conclusions, final comments and validation opinion

- **Provide conclusions on each requirement under paragraph 37 of the CDM modalities and procedures, describing how these requirements have been meet. This shall include assessments and findings (e.g. corrective action requests, clarifications or observations) in relation to each requirement, including a confirmation that all issues raised have been addressed to the satisfaction of the DOE.**
- **Final comments and validation opinion**

Det Norske Veritas Certification Ltd. (DNV) has performed a validation of the Zhangbei Manjing Windfarm project. The validation was performed on the basis of UNFCCC criteria and the host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The host party is China and the Annex I Party is United Kingdom of Great Britain and Northern Ireland. Both parties fulfil the participation criteria and the DNAs have approved the project and authorised the project participants. The DNA of China confirmed the project's contribution to sustainable development in China.

The project correctly applies AM0005. By using wind power resources generating renewable which will displace grid electricity from the North China Power Grid which is dominated by fossil fuel power plants, the project results in reductions of CO₂ emissions that are real, measurable and give long-term benefits to the mitigation of climate change. It is demonstrated that the project is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of project activity.

The analysis of the presented barriers 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. The determination of the baseline is transparent.

The monitoring plan provides for the monitoring of electricity generated by the project. Detailed responsibilities and authorities for project management, monitoring and reporting and QA/QC procedures have also been addressed.

A local stakeholder's consultation process has been carried out by the project participant. DNV published the PDD on the DNV Climate Change Website and comments by Parties, stakeholders and UNFCCC accredited NGOs were invited through the CDM website. One comment was received which was in favour of the project activity.

In summary, it is the validation team's opinion that the "Zhangjing Manjing Windfarm project", as

described in the project design document of 8 December 2005, meets all relevant UNFCCC requirements for the CDM and all relevant host country criteria and correctly applies the baseline and monitoring methodology AM0005 for CDM project activities. Hence, DNV requests the registration of the "Zhangjing Manjing Windfarm project" as a CDM project.

For further details, please refer to the "Validation Findings" Section and Table 1 of the Validation Protocol in Appendix A of DNV'S Validation Report (DNV Report 2005-0826, Rev. 01)

The DOE declares herewith that in undertaking the validation of this proposed CDM project activity it has no financial interest related to the proposed CDM project activity and that undertaking such a validation does not constitute a conflict of interest which is incompatible with the role of a DOE under the CDM.

By submitting this validation report, the DOE confirms that all validation requirements are met.

Susanne Haefeli

Name of authorized officer signing for the DOE

Date and signature for the DOE

04 January 2006



Section below to be filled by UNFCCC secretariat

Date when the form is received at UNFCCC secretariat

Date at which the registration fee has been received

Date at which registration shall be deemed final

Date of request for review, if applicable

Date and number of registration

Date

Number