



Voluntary Carbon Standard Version 2007.1

VERIFICATION REPORT OF

CECIC HKE ZHANGBEI LVNAOBAO WIND POWER PROJECT

Report No: BVC/China-VR7033

Name of Verification company:	Date of the issue:
Bureau Veritas Certification Holding SAS	02/09/2011
Report Title:	Approved by:
CECIC HKE Zhangbei Lvnaobao Wind Power Project	Robin Wang Jing
Client:	Project Title:
CECIC HKE Wind Power CO.,LTD	CECIC HKE Zhangbei Lvnaobao Wind Power Project

Template 19 November 2007

Summary:

Bureau Veritas Certification has made the verification of CECIC HKE Zhangbei Lvnaobao Wind Power Project, UNFCCC CDM Registration No.3399 on the basis of Voluntary Carbon Standard (VCS) 2007.1 Program and UNFCCC criteria for the CDM, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to Article 12 of the Kyoto Protocol, as well as the host country criteria.

The verification scope is defined as a independent review and ex post determination by the Designated Operational Entity of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases: i) desk review of the project design and the baseline and monitoring plan; ii) follow-up on-site visit and interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Bureau Veritas Certification internal procedures.

The first output of the verification process is a list of Clarification Requests, Corrective Actions Requests, Forward Actions Requests (CLs, CARs and FARs).

In summary, Bureau Veritas Certification confirms that the Project is implemented as planned and described in VCS-PD. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the Project is ready to generate GHG emission reductions. The GHG emission reduction is calculated without material misstatements.

Our opinion relates to the Project's GHG emissions and the resulting GHG emission reductions viz. Voluntary Carbon Units (VCUs) reported are based on the valid project baseline, monitoring plan and associated documents. Based on the evidence and information that are considered necessary to guarantee that GHG emission reductions are appropriately calculated, Bureau Veritas Certification confirms following statement:

Reporting period:	01/08/2010 to 27/10/2010
Baseline emissions:	14,752 tCO ₂ e
Project emissions:	0 tCO ₂ e
Leakage :	0 tCO ₂ e
Emission Reductions:	14,752 tCO ₂ e (VCUs)

Work carried out by:

Number of pages:

Team Leader :	Tan Pin
Team Member:	Wang Guichen
Reviewer:	Zhang Na

24

Abbreviations

CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reductions
CL	Clarification Request
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
DOE	Designated Operational Entity
DR	Document Review
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
MP	Monitoring Plan
MR	Monitoring Report
MRR	Monthly Reading Record
NCPG	North China Power Grid
PD	Project Description
PDD	Project Design Document
P.R. China	People's Republic of China
PP	Project Proponent
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Voluntary Carbon Standard
VCU	Voluntary Carbon Unit
VVM	Validation and Verification Manual

Table of Contents

<u>1</u>	<u>INTRODUCTION</u>	5
<u>1.1</u>	<u>Objective</u>	5
<u>1.2</u>	<u>Scope and Criteria</u>	5
<u>1.3</u>	<u>VCS Project Description</u>	5
<u>1.4</u>	<u>Level of Assurance</u>	5
<u>2</u>	<u>METHODOLOGY</u>	6
<u>3</u>	<u>VERIFICATION FINDINGS</u>	6
<u>3.1</u>	<u>Project Implementation</u>	6
<u>3.2</u>	<u>Internal and External Data</u>	7
<u>3.3</u>	<u>Management and Operational System</u>	8
<u>3.4</u>	<u>Completeness of Monitoring</u>	8
<u>3.5</u>	<u>Accuracy of Emission Reduction Calculations</u>	8
<u>3.6</u>	<u>Quality Evidence to Determine Emission Reductions</u>	9
<u>3.7</u>	<u>Management System and Quality Assurance</u>	9
<u>4</u>	<u>VERIFICATION CONCLUSION</u>	9
<u>5</u>	<u>REFERENCE</u>	11

1 Introduction

CECIC HKE Wind Power CO.,LTD has commissioned Bureau Veritas Certification (hereafter referred to as “BVC”) to verify the emission reductions of its voluntary emission reduction (VER) of CECIC HKE Zhangbei Lvnaobao Wind Power Project (hereafter referred to as “the Project”) for the period from 01/08/2010 to 27/10/2010 prior to its first CDM crediting period. The Project is owned and managed by CECIC HKE Wind Power CO.,LTD(hereafter referred to as “the PP”).

BVC as the verification body of the Project has been accredited as a DOE by UNFCCC and also meets the competence requirements as set out in ISO 14065:2007.

1.1 Objective

Verification is the independent review and ex post determination by the verification body of the monitored reductions in GHG emissions during defined verification period.

The objective of verification is one-off verification for the VCUs generated by the Project before its start date of first CDM crediting period as from 28/10/2010 and after the Project commissioned date 26/07/2010. The start date of the crediting period is after 28 March 2006 and VCS 2007.1 validation shall be completed within two years of the Project Start Date, which is in line with the Clause 5.2.1 of VCS 2007.1 Program.

VCS 2007.1 Program and UNFCCC criteria refer to Article 12 of the Kyoto Protocol, the CDM rules and modalities and the subsequent decisions by the CDM Executive Board, as well as the host country criteria.

1.2 Scope and Criteria

The verification scope is defined as an independent and objective review of the VCS Project Description (VCS-PD), the Project’s baseline study and Monitoring Report (MR) and other relevant documents. The information in these documents is reviewed against VCS 2007.1 requirements, UNFCCC rules and associated interpretations.

The verification is not meant to provide any consulting towards the client. However, stated requests for forward actions and/or corrective actions may provide input for improvement of the Project monitoring towards reductions in the GHG emissions.

1.3 VCS Project Description

The Project is a wind power project (GPS coordinates are east longitude 114°32’30” and north latitude 41°03’50”) that consists of 67 sets of FD77B 1.5MW WTGs providing a total installed capacity of 100.5MW. The annual expected electricity supplied to North China Power Grid (NCPG) is 241,700 MWh and the annual estimated emission reductions are 254,960 tCO₂e.

The Project has been registered as a CDM project on 28/10/2010 (UNFCCC Reg. No. 3399) under approved CDM methodology ACM0002 version 10-“Consolidated methodology for grid-connected electricity generation from renewable sources”.

(<http://cdm.unfccc.int/Projects/DB/TUEV-SUED1265810041.21/view>)

During the on-site verification, BVC confirmed that the Project operate properly as per VCS-PD[1].

1.4 Level of Assurance

The verification report is based on the VCS-PD, the VCS Monitoring Report (MR), supporting evidences made available to the verifier and information collected through performing interviews and during the on-site assessment. The verification conclusion is assured the credibility of all above.

2 Methodology

The verification is as a desk review and on-site visit including discussions and interviews with selected experts and stakeholders.

- Desk review with the PP on 04/05/2011 in the Project site
- On-site visit and conducted discussions and interviews with the PP on 04/05/2011

In order to ensure transparency, a verification protocol was customized for the Project, according to the VCS 2007.1 and Validation and Verification Manual version 01.2; a verification protocol is used as part of the verification. The protocol shows, in a transparent manner, criteria (requirements), means of verification and the results from verifying the identified criteria. The verification protocol serves the following purposes:

- It organises, details and clarifies the requirements the Project is expected to meet; and
- It ensures a transparent verification process where the verifier will documents how a particular requirement has been verified and the result of the verification;

The overall verification, from Contract Review to Verification Report & Opinion, was conducted using BVC procedures.

3 Verification Findings

In the following sections, the findings of the verification are stated. The verification findings for each verification subject are presented as follows:

- 1) The findings from the desk review of the initial VCS-PD and MR and the findings (CARs, CLs and FARs) from interviews during the follow up on-site visit are summarized.
- 2) The conclusions for verification subject are presented.

3.1 Project Implementation

BVC has performed an on-site visit to verify the real implementation of the Project against the description in its VCS-PD and verified that 67 sets of FD77B 1.5MW WTGs providing a total installed capacity of 100.5MW as described in the VCS-PD have been put into operation. The Project commissioned on 26/07/2010, as indicated in the commission log of the Project [13]

[Power system] [11][12]

As shown in the diagram of the power system connection, the electricity generated by the Project is delivered to NCPG through onsite 220kV substation. This is in accordance with the signed Power Purchase Agreement (PPA).

[Metering system] [11][12][17]

Onsite metering equipments as per the MP have also been found in place, including two meters of which:

A main meter has been installed at on-site 220kV substation of the power station.

A backup meter has been installed at on-site 220kV substation of the power station.

[Calibration]

The MP requires “The metering equipment will be calibrated and checked by qualified third party for accuracy according to local industry standards so that the metering equipment shall have sufficient accuracy of 0.5s”. During the monitoring period, the

installed metering equipment has been operating well and meters were duly calibrated. The calibration records are shown in Table 2 below. The accuracy of the meters is 0.2s which is better than 0.5s prescribed in the MP.

Table 2 The calibration records of the meters

	Main meter	Backup meter
Type/Location	ACE8000/onsite substation	ACE8000/onsite substation
SN/ Accuracy	37006426/0.2S	37006420 /0.2S
Calibration Dates –(Validity)	30/11/2009 – (29/11/2010) by Huabei Electric Power Technology Research Academy Co. Ltd.	30/11/2009 – (29/11/2010) by Huabei Electric Power Technology Research Academy Co. Ltd.
Calibration Frequency	Annually	Annually

Calibration certificates of the above meters were issued by qualified calibration entity as shown in following evidences:

Certificate of metrological authorization to Huabei Electric Power Technology Research Academy Co. Ltd. (certificate code: (Jing) Fa Ji (2008) 020) by Beijing Bureau of Quality and Technology Supervision with the valid period from 31/12/2008 to 30/12/2012 which covers the dates of calibration [18].

BVC has verified the original copy of calibration certificates presented by the PP and confirms that the calibration frequency and the accuracy of the above meters complies with the national standard “Verification Regulation of Electrical Energy Meter with Electronics” (JJG 596-1999)” in China [10].

3.2 Internal and External Data

According to the VCS-PD and MR, the following internal parameters need be monitored for determining the net electricity supplied to the grid by the Project and emission reduction.

e project. It is result of $EG_{\text{to grid},y}$ minus $EG_{\text{from grid},y}$

$EG_{\text{to grid},y}$ Quantity of electricity exported to the grid by the Project.

$EG_{\text{from grid},y}$ Quantity of annual electricity imported from the grid by the Project.

According to the monitoring plan of the VCS-PD and diagram of power system connection of the Project, the emission reductions are to be calculated using the net electricity supplied to the grid by the Project measured by the main meter installed at onsite substation.

BVC has verified the manual records of the meter and cross checked the data with ETNs covering the period from 26/07/2010 to 30/10/2010, and found the reported data to be consistent and substantial.

The emission factor of grid for the crediting period of the Project has been determined ex-ante in the VCS-PD[1]. The emission factor used in the monitoring report has been verified against the VCS-PD [1] and found same.

3.3 Management and Operational System

The VCS-PD and the Monitoring Report has clearly prescribed the management and operational procedures for the various steps involved in the Project, which includes monitoring, recording, archiving of the data and training procedure for all personnel involved in the Project. The procedures are available as a documentation which has been verified by BVC and found to be consistent with VCS-PD and CDM monitoring methodology AM0002 version 10.

3.4 Completeness of Monitoring

The reporting procedures reflect the description of the VCS-PD. The monitoring mechanism with practicable procedures has been verified to be effective and reliable.

The documented evidences and records submitted by the PP to determine emission reductions have been verified as of sufficient quantity and appropriate quality.

3.5 Accuracy of Emission Reduction Calculations

According to the VCS-PD and the Monitoring Report, the emission reductions of the Project are calculated as the baseline emissions minus the Project emissions and leakage. According to the methodology AM0002 version 10, the project emission and leakage do not need to be considered.

$$ER_y = BE_y - PE_y - LE_y = BE_y = EG_y \times EF_y$$

Where,

ER_y : Emission reductions

BE_y : Baseline emissions

PE_y : Project emissions

LE_y : Leakage emissions

EF_y : GHG Emission Factor of the NCPG, calculated ex-ante and fixed for this reporting period (unit: CO_{2e}/MWh). The emission factor is determined as 1.05485tCO_{2e}/MWh same as the value for the first CDM crediting period.

EG_y Net electricity supplied to the grid by the project. It is result of $EG_{to\text{grid},y}$ minus $EG_{from\text{grid},y}$.

The net electricity supplied to the grid by the Project during this monitoring period is calculated in the following Table.

Table 3 The verified net electricity (EG_y) supplied by the Project (MWh)

Period	$EG_{to\text{grid},y}$			$EG_{from\text{grid},y}$			Verified EG_y
	Main meter	Electricity Sales Receipts	Verified	Main meter	Electricity Sales Receipts	Verified	
	A	B	C=MIN(A,B)	D	E*	F=MAX(D,E)	
01/08/2010 – 31/08/2010 ¹	320.650	320.650	320.650	37.400	39.325	39.325	281.325
01/09/2010 – 30/09/2010	3,441.075	3,441.303	3,441.075	24.200	24.200	24.200	3,416.875
01/10/2010 – 27/10/2010 ¹	10,340.825	10,337.093	10,337.093	44.550	50.325	50.325	10,286.768
Total							13,984.968

1

The baseline emissions of the Project are calculated as:

$$BE_y = EF_y \cdot EG_y = 1.05485 \text{ tCO}_2\text{e/MWh} \cdot 13,984.968 \text{ MWh} = 14,752 \text{ tCO}_2\text{e}$$

Project emissions and leakage are not required to be considered according to ACM0002 version 10 and the VCS-PD.

Therefore, the emission reductions during the monitoring period are calculated as:

$$ER_y = BE_y - PE_y - L_y = 14,752 \text{ tCO}_2\text{e} - 0 - 0 = 14,752 \text{ tCO}_2\text{e}$$

In summary, the calculation of baseline emissions, project emissions and leakage has been followed in accordance with the methodology requirements. The assumptions, emission factors and default values were justified and correctly applied in the ER calculations.

3.6 Quality Evidence to Determine Emission Reductions

The critical parameters used for the determination of the Emission Reductions are the reading records of the meters reflecting the electricity exported to and imported from the grid in parallel with the ETN issued by the grid company in this reporting period.

The data pertaining to the above parameters is maintained in the identified records and consistent with the values stated in the VCS Monitoring Report version 2.3.

3.7 Management System and Quality Assurance

BVC confirms that the quality management system for the Project is in place. The documented instructions including the responsibilities have been properly implemented and in line with the VCS-PD. Internal review being a regular practice ensures the quality assurance of the monitoring procedures..

4 Verification Conclusion

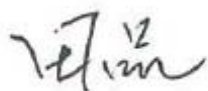
BVC has performed a verification of emission reductions generated prior to the CDM registration of CECIC HKE Zhangbei Lvnaobao Wind Power Project (UNFCCC CDM Registration No. 3399 registered on 28/10/2010). The verification is based on the currently valid VCS Program 2007.1 released by Voluntary Carbon Standard Association on 18 November 2008.

The management of CECIC HKE Wind Power CO.,LTD is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions of the Project on the basis set out within the monitoring procedures in the VCS-PD version 02 dated 14/06/2011. The development and maintenance records and reporting procedures is in accordance with the VCS-PD, including the calculation and determination of GHG emission reductions from the Project is the responsibility of the management of the Project.

BVC has verified the VCS Monitoring Report version 02 dated 14/06/2011 for the reporting period as indicated below. BVC is able to confirm that the Project is implemented as planned and described in the VCS-PD. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the Project has generated GHG emission reductions (VCUs).

BVC can confirm that the GHG emission reduction is calculated without material misstatements. Our opinion relates to the Project's GHG emissions and the resulting GHG emission reductions reported are based on the valid project baseline, monitoring plan and associated documents. Based on the evidence and information that are considered necessary to guarantee that GHG emission reductions are appropriately calculated, Bureau Veritas Certification confirms following statement:

Reporting period : 01/08/2010 to 27/10/2010
Baseline emissions : 14,752 t CO₂ equivalents.
Project emissions : 0 t CO₂ equivalents.
Leakage : 0 t CO₂ equivalents.
Emission Reductions : 14,752 t CO₂ equivalents (VCUs)



Tan Pin

Team Leader

Date: 02 /09/2011



Zhang Na

Internal Reviewer

Date: 02 /09/2011

5 Reference

Category 1 Documents:

Documents provided by Chongqing Bus Rapid Transit Development Corporation Ltd., related to the design and/or methodologies employed in the design or other reference documents.

- [1] VCS Project Description Version 02 dated 14/06/2011
- [2] Registered CDM Project Design Document (PDD) version 06 dated 23/09/2010, registered on 28/10/2010 CDM ref no.3399
- [3] CDM Validation Report dated 13/10/2010
- [4] VCS Monitoring Report version 01 dated 31/03/2011
- [5] VCS Monitoring Report version 02 dated 14/06/2011
- [6] ER Spreadsheet
- [7] Monthly Records(MRRs) of the Project from 26/07/2010 to 01/11/2010
- [8] ACM0002 version 10 dated 19/05/2006
- [9] Validation and Verification Manual Version 01.2 dated 30/07/2010
- [10] Verification Regulation of Electrical Energy Meter with Electronics" (JJG 596-1999)
- [11] Diagram of power system connection of the Project
- [12] Signed Power Purchase Agreement(PPA)
- [13] commission log of the Project
- [14] Daily /Monthly Reading Records of the Project
- [15] Electricity Sales Receipts issued by the grid company
- [16] Sales invoices issued by the PP
- [17] Calibration Certificates of the relevant meters
- [18] Certificate of metrological authorization to Huabei Electric Power Technology Research Academy Co. Ltd. (certificate code: (Jing) Fa Ji (2008) 020) by Beijing Bureau of Quality and Technology Supervision with the valid period from 31/12/2008 to 30/12/2012 which covers the dates of calibration
- [19] CDM Monitoring & Management Manual
- [20] CDM and monitoring internal Training records

Persons interviewed:

List of persons interviewed during the verification or persons that contributed with other information that are not included in the documents listed above.

- 1) Mr. Shen Hongshuai Project Manager of CECIC Wind Power Investment Co.,Ltd
- 2) Mr. Yao Xi Project Manager of CECIC HKE Wind Power CO.,LTD

APPENDIX A: COMPANY CDM PROJECT VERIFICATION PROTOCOL

Table 1 Verification requirements based on the Validation and Verification Manual (Version 01.2, EB55 Annex 1)

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
1. Remaining Issues					
a. Have all issues identified in the validation report to be verified during verification been resolved by the project participant and are there any open issues identified in the previous verification?	VVM EB48	190 Ann 68	No. There is no left issue in the validation report.	OK	OK
2. Project implementation in accordance with the registered project design document			CECIC HKE Zhangbei Lvnaobao Wind Power Project		
a. Are all physical features of the proposed CDM project activity proposed in the registered PDD in place?	VVM	196	Yes. The Project involves the installation of 67 wind turbines with 1.5MW capacity per unit, with a total installed capacity of 100.5 MW. Total of 241,700 MWh electricity generated by the Project are expected to be delivered to the NCPG annually. Accordingly, the Project estimated can reduce GHG emissions about 254,960 tCO ₂ e per year. Each wind turbine has a transformer from 690V to 35kV. The wind farm was connected with one new built 35kV/220kV substation located within the project site, and then to NCPG via a series of substation.	OK	OK
b. Have the project participants	VVM	196	Yes.	OK	OK

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
operated the proposed CDM project activity as per the registered PDD?			The Project is owned and managed by CECIC HKE Wind Power CO.,LTD (the PP). The PP has operated the CDM project activity as per the registered PDD.		
c. Was an on-site visit conducted?	VVM	196	Yes. The on-site visit of the verification has been conducted on 04/05/2011. The audit purpose and methodology were briefed in the opening meeting participated by the following persons. CECEP Wind-Power Investment Co., Ltd. Mr. Shen Hongshuai Project Manager of CECIC Wind Power Investment Co.,Ltd Mr. Yao Xi Project Manager of CECIC HKE Wind Power CO.,LTD	OK	OK
d. If not, justify the rationale of the decision.	VVM	196	N.A.	OK	OK
e. Is it identified that the implementation or operation of CDM project activity does not conform with the description contained in the registered PDD, are following conducted?	VVM	197	No.	OK	OK
i. If yes, has an assessment been conducted on the potential impacts due to these changes following EB	VVM	197	N.A.	OK	OK

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
48 report, paragraph 73 and its annex 67?					
ii. If yes, has a notification or a request for approval of changes been submitted from the project activity as described in the registered PDD prior to the conclusion of the verification/certification for the corresponding monitoring period based on the assessment above?	VVM	197	N.A.	OK	OK
3. Compliance of the monitoring plan with the monitoring methodology					

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
a. Is the validated monitoring plan in accordance with the approved methodology applied by the proposed CDM project activity?	VVM	200	The Monitoring Plan (MP) in accordance with the methodology ACM0002 Version 10 has been applied by the CDM project activity. The monitoring organization has been set up and in functions. All monitoring staffs have been trained and the training records have been provided and verified satisfactorily. The monitoring procedures are in place and function. All parameters indicated in the MP have been measured and recorded in the respective documents. The QA/QC procedures are in place and function. CL- 1 <u>The MR is silence about the monthly cut-off time for Grid company to read $EG_{to grid,y}$ and $EG_{from grid,y}$.</u> The description on cut-off time is in accordance with the actual situation. Hence, CL- 1 has been closed.	~~CL-1~~	OK
b. If no, was a request for revision of the monitoring plan was done? (The DOE may request for revision of the monitoring plan covering the monitoring period under verification, for approval by CDM Executive Board)	VVM	201	N.A.	OK	OK
c. Are there any monitoring aspects of the project activity that are not specified in the methodology,	VVM	202	No.	OK	OK

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
particularly in the case of small-scale methodologies(e.g. additional monitoring parameters, monitoring frequency and calibration frequency)?					
4. Compliance of monitoring with the monitoring plan					
a. Have the monitoring plan and the applied methodology been properly implemented and followed by the project participants?	VVM	205	Yes. The MP and the methodology ACM0002 version 10 have been followed by the PP.	OK	OK
b. Have all parameters stated in the monitoring plan, the applied methodology and relevant CDM Executive Board decisions been sufficiently monitored and updated	VVM	205			

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
as applicable, including:					
i. Project emission parameters?	VVM	205	Yes. The Project is a new built wind power project, thus the project emissions of the project are zero according to the ACM0002 version 10.	OK	OK
ii. Baseline emission parameters?	VVM	205	Yes. The net electricity delivered to the grid by the Project (EG _y) is used for baseline emission calculation. The net electricity delivered to the grid by the Project (EG _y) can be calculated as the electricity exported to the grid minus the electricity imported from the grid. A pair of bidirectional meters (main & backup) were installed at the onsite 220kV substation to measure the electricity exported to and imported from the grid.	OK	OK
iii. Leakage parameters?	VVM	205	Yes. According to the VCS-PD and the methodology ACM0002 version 10, not leakage needs to be considered.	OK	OK
iv. Management and operational system: the responsibilities and authorities for monitoring and reporting are in accordance with the responsibilities and authorities stated in the monitoring plan?	VVM	205	Yes. The PP has the responsibility of overall data collection, quality assurance, reports and data storage, which has established a special unit for managing all data in relation to the Project. All records related to generation and maintenance have been satisfactorily maintained. Responsibilities have been allocated to monitoring staff as per	OK	OK

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
			registered Monitoring Plan. The QA / QC procedures are part of management system and are documented in management procedures. The records and all relevant paper based information are collected and archived by the operation department for internal audit. The responsibilities and the procedures included in the Monitoring and Management Manual have been verified.		
c. Is the accuracy of equipment used for monitoring is in accordance with the relevant guidance provided by the CDM Executive Board and is controlled and calibrated in accordance with the monitoring plan?	VVM	205	Yes. The accuracy of equipment used is in accordance with MP. The certificates of calibration have been provided and verified during the on-site visit. The accuracy of the meters is 0.2S, which can meet the requirement of the relevant rules in China. ~~CL-2~~ <u>The MR is silence about the calibrator and the certificate of the calibrator is not provided.</u> The information on calibration are consistent with the relevant evidence provided by PP. Calibration was conducted as per VCS-PD. Hence, CL- 2 has been closed.	~~CL-2~~	OK
i. Are monitoring results consistently recorded as per approved frequency?	VVM	205	Yes. The meters have been continuously measured and monthly recorded consistent with the MP.	OK	OK
ii. Have quality assurance and quality control procedures been	VVM	205	Yes.	OK	OK

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
applied in accordance with the monitoring plan monitoring plan?			The QA/QC procedures have been documented in the Monitoring and Management Manual and applied in accordance with the MP.		
5. Assessment of data and calculation of greenhouse gas emission reductions					
a. Is a complete set of data for the specified monitoring period is available? (If no, i.e., only partial data are available because activity levels or non-activity parameters have not been monitored in accordance with the registered monitoring plan, the DOE shall opt to either make the most conservative assumption theoretically possible in finalizing the verification report, or raise a request for deviation prior to submitting request for issuance if appropriate).	VVM	208	Yes. A complete set of data related to the ER emission from 26/07/2010 to 01/11/2010, which can cover the monitoring period has been provided to BVC.	OK	OK
b. Has information provided in the monitoring report been cross-checked with other sources such as plant log books, inventories, purchase records, laboratory analysis?	VVM	208	Yes.		OK

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
c. Have calculations of baseline emissions, proposed CDM project activity emissions and leakage, as appropriate, been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology document?	VVM	208	~~CAR-1~~ <u>The Values applied for $EG_{fromgrid,y}$ are not conservative. Moreover, clarify the difference of $EG_{fromgrid,y}$ between the value from ETNs and MRRs.</u> Conservative values and method are applied for EG_y calculation. Hence, CAR- 1 has been closed.	~~CAR-~~ 4	OK
d. Have any assumptions used in emission calculations been justified?	VVM	208	No. There are no assumptions in emission calculations.	OK	OK
e. Have appropriate emission factors, IPCC default values and other reference values been correctly applied?	VVM	208	Yes. The emission factor in the MR is 1.05485 tCO₂/MWh, which is the same as described in the registered PDD.	OK	OK

Table 2 - Verification requirements based on the Guidelines on Completeness Check of Requests for Issuance (EB48 - Annex 68)

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
1. Does Monitoring Report contain:	EB48	Ann 68			
a. The implementation status of the project during the monitoring period under consideration?	EB48 Ann68	10(a)i	The wind turbines of the Project commissioning started on 26/07/2010. The Project started full commissioning on 24/09/2010. The project is registered on 28/10/2010.		
b. Monitoring systems and procedures, including any quality assurance and quality control system employed by the project activity?	EB48 Ann68	10(a)ii	Yes.	OK	OK
c. All parameters required to be monitored and reported at the intervals required by the monitoring plan and the applied methodology?	EB48 Ann68	10(a)iii	Yes. The meters have been continuously measured and monthly recorded consistent with the MP.	OK	OK
d. Information on calibration of monitoring instruments as specified by the monitoring methodology and the monitoring plan?	EB48 Ann68	10(a)iv	Yes.	OK	OK
e. Emission factors, IPCC default values, and other reference values used in the calculation of emission reductions?	EB48 Ann68	10(a)v	The emission factor in the MR is 1.05485 tCO ₂ /MWh, which is the same as described in the registered PDD.	OK	OK
f. Reference to any deviation request approved by the Executive Board for the monitoring period in consideration?	EB48 Ann68	10(a)vi	N.A.	OK	OK
g. Calculations of baseline emissions, project emissions, leakage (if any), and emission	EB48 Ann68	10(a)vii	~~Pending on CAR-1~~ Calculation of baseline emissions, project emission, leakage and emission reduction is	OK	OK

CHECKLIST QUESTION	Ref.	§	COMMENTS	Draft Concl	Final Concl
reductions, including reference to formulae and methods used?			in accordance with the ACM0002 version 10. All calculations are correct and conservative.		
h. Comparison of the actual emission reduction claimed in the monitoring period with the estimate in the registered PDD, and explanation on any significant increase?	EB48 Ann68	10(a)viii	Yes. The actual emission reductions during this monitoring period are less than the estimated value in the registered PDD.	OK	OK
2. Does Spreadsheet of Calculation of Emission Reductions contain:	EB48	Ann 68			
a. Values of the monitored parameters?	EB48 Ann68	10(b)i	Yes.	OK	OK
b. Formulae of calculation are shown in the spreadsheet cells for ease of assessment, whenever possible?	EB48 Ann68	10(b)ii	Yes.	OK	OK
c. Any other explanation with regard to application of formulae in the spreadsheet?	EB48 Ann68	10(b)iii	~~Pending on CAR-1~~ Yes. Necessary explanation is provided.	Pending	OK

Table 3 Resolution of Corrective Action /Clarification / Forward Action Requests

Draft report clarifications and corrective action requests by verification team	Ref. to checklist question in table 1 and table 2	Summary of project owner response	Verification team conclusion
CAR-1: The Values applied for $EG_{fromgrid,y}$ are not conservative. Moreover, clarify difference of $EG_{fromgrid,y}$ between the value from ETNs and MRRs.	Table 1 5.b	For a conservative, the value of $EG_{fromgrid,y}$ from ETNs of period covering of from 26/07/2010 to 31/10/2010 was used to crosscheck instead of of the period of from 01/08/2010 to 27/10/2010. For a conservative method, the bigger values between $EG_{fromgrid,y}$ from MRRs and ETNs was used for the EG_y calculation resulting a lower emission reduction.	Conservative values and method are applied for EG_y calculation. Hence, CAR- 1 has been closed.
CL-1: The MR is silence about the monthly cut-off time for Grid company to read $EG_{togrid,y}$ and $EG_{fromgrid,y}$.	Table 1 3.a	The monthly cut-off time for the Grid company to read $EG_{togrid,y}$ and $EG_{fromgrid,y}$ for the ETN issuance is the 24:00 on the last day per month. Please refer to updated MR.	The description on cut-off time is in accordance with the actual situation. Hence, CL- 1 has been closed.
CL-2: The MR is silence about the calibrator and the certificate of the calibrator is not provided.	Table 1 4.c	Both of the electricity meters were calibrated by the Huabei Electric Science Research Institute Co.,Ltd. The certificate was issued by Beijing Bureau of Quality and Technical Supervision and the certificate No. is Jing Fa Ji No.20 [2008].	The information on calibration are consistent with the relevant evidence provided by PP. Calibration was conducted as per VCS-PD. Hence, CL- 2 has been closed.