



Voluntary Carbon Standard Version 2007.1

VERIFICATION REPORT OF

JILIN DA'AN DAGANGZI WIND

POWER PROJECT PHASE II

Report No: BVC/China-VR 7027

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Verification Report of Jilin Da'an Dagangzi Wind Power Project Phase II	Robin Wang Jing
Client:	Project Title:
Jilin CGN Wind Power Co., Ltd	Jilin Da'an Dagangzi Wind Power Project Phase II

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Summary:

Bureau Veritas Certification has made the verification of Jilin Da'an Dagangzi Wind Power Project Phase II, owned by Jilin CGN Wind Power Co., Ltd, which is located near the village of Shuanggang, Dagangzi County, Da'an City, Jilin Province, P.R. China, UNFCCC CDM Registration No.2586 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 an 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 (MP); 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 (CL, CAR and FAR).

In summary, Bureau Veritas Certification confirms that the project is implemented as planned and described in VCS-PD and validated and registered CDM project design documents. 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, MP 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:	01/01/2009 to 08/03/2010
Baseline emissions:	128,377 tCO ₂ e
Project emissions:	0 tCO ₂ e
Emission Reductions:	128,377 tCO ₂ e (VCUs)

Work carried out by:

Number of pages:

Team Leader : Nancy Zhang Na
Team Member: Katherine Zhang Ying
Reviewer: Robin Wang Jing

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Abbreviations

BVC	Bureau Veritas Certification
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
ETN	Electricity Transaction Notes
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
MoV	Means of Verification
MP	Monitoring Plan
MR	Monitoring Report
MRR	Monthly Reading Record
NEPG	Northeast China Power Grid
PD	Project Description
PDD	Project Design Document
P.R. China	People's Republic of China
PP	Project Participant
PPA	Power Purchase Agreement
VCS	Voluntary Carbon Standard
VCU	Voluntary Carbon Unit
VVM	Validation & Verification Manual

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1. INTRODUCTION

Jilin CGN 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) project of Jilin Da’an Dagangzi Wind Power Project Phase II (hereafter called “the Project”), which is located near the village of Shuanggang, Dagangzi County, Da’an City, Jilin Province, P.R. China for the period from 01/01/2009 to 08/03/2010 prior to its CDM first crediting period.

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 periodic 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 CDM first crediting period as from 09/03/2010, viz. the time is limited in the period start from 01/01/2009 and end on 08/03/2010, the start date of the crediting period is after 28 March 2006; and the validation has been completed on 15/05/2009, within two years of the project start date, which is in line with the provision as prescribed in 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 sited in Da’an City of Jilin Province, P.R. China, with east longitude 123°35’26”~123°38’58” and North latitude 44°18’23”~45°18’46”. The Project consists of 33 sets of 1,500kW wind turbines. The type of the wind turbines is FD77B, and the total installed capacity of the Project activity is 49.5MW. The electricity is supplied to Northeast China Power Grid (NEPG) through 220KV transmission lines. The annual expected net electricity supplied by the Project is 103,130 MWh and the annual estimated emission reductions are 118,197 tCO₂e.

The Project has been registered as a CDM project on 09/03/2010 (UNFCCC Reg. No. 2586) under approved CDM methodology ACM0002 version 07.

(<http://cdm.unfccc.int/Projects/DB/TUEV-SUED1242408811.21/view>)

During the on-site visit, BVC has confirmed that the first turbine of the Project was put into operation on 16/12/2008.^[13]

1.4. Level of Assurance

The verification report is based on CDM-PDD, VCS-PD, VCS-Monitoring Report (VCS-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 26/10/2010 in the Project site
- On-site visit and conducted discussions and interviews with the PP on 26/10/2010

In order to ensure transparency, a verification protocol was customized for the project, according to the VCS2007.1 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 Bureau Veritas Certification 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 (CARs, CLs and FARs) from the desk review of the initial VCS-PD and the VCS-MR and the findings from interviews during the follow up on-site visit are summarized.
- 2) The conclusions for verification subject are presented.

3.1. Project Implementation

The BVC has performed an on-site visit to verify the real implementation of the Project against the description in the VCS-PD of the Project and found that: all the 33 sets of wind turbines manufactured by Dongfang Steam Turbine Works Company with unit capacity of 1500 kW, were implemented and commissioned before the date of CDM registration. All facilities and equipments as described in the VCS-PD and registered CDM-PDD have been installed and put into operation.

The BVC has verified and confirmed that all wind turbines have been installed in place. The electricity generated has been delivered properly to the NEPG in accordance with the provisions of the Power Purchase Agreement (PPA) ^[7] signed with the grid company and as indicated in the Electricity Transaction Notes (hereafter referred to as “ETN”) ^[9] issued by the grid company.

1) Power system ^{[6] [7]}

The electricity generated by 33 sets wind turbines is delivered from 35kV/220kV onsite substation to grid substation and then exported to NEPG. Another 10kV spare line is in place for electricity imported from the grid.

2) Metering system ^[6]

The Project and other four wind power projects, which are owned by the same project entity, are sharing the same substation 220KV transmission line and the spare 10kV line¹. Total net electricity delivered to the grid by these five wind power projects can be measured by the a pair of meters (one main meter and one backup meter) installed in the power plant 220kV high voltage side of the 35kV-to-220kV substation. The main meter and backup meter have bidirectional metering, recording both export to the grid ($EG_{main,export}$) and import from the grid ($EG_{main,import}$).

Separate meters are installed at each of the project sites, which can also record bidirectional metering. The measurement of electricity from the separate meters of five wind power projects are used to calculate the share of the Project in the total electricity exported to the grid ($E_{share} = E_{project} / (E_{project} + E_{other})$).

The net electricity exported to the grid by the Project (EG_{export}) can be calculated by the readings of the main meter ($EG_{main,export}$) and calculated value of the share of the Project in the total electricity exported to the grid (E_{share}). With a view of conservativeness, the total electricity imported from the grid by the five wind power projects ($EG_{main,import}$) is considered to be the electricity exported to the grid by the Project (EG_{export}) during the calculation of the net electricity delivered to the grid by the Project (EG_y).

¹ The Project and other four wind power projects are owned by the same project entity, each phase being developed independently as a CDM project. The Project is the Phase II of five phases. The net electricity delivered to the NEPG by the Project is measured by the sepearate meters m4 m5 and m6. The net electricity delivered to the NEPG by other four projects are measured through seperate meters m1 m2 m3, m7 m8 m9, m10 m11 m12, m13 m14 respectively. At the time of the on-site verification on 26 October 2010, meters m4 m5 m6, m1 m2 m3, m7 m8 m9, m10 m11 m12 are in place and meters m13 and m14 aren't installed. Meters m13 and m14 will be installed when the Phase V project completes construction.

All above meters have been properly installed, maintained, calibrated and recorded according to the requirements defined in the VCS-PD and relevant standards.

The data reporting procedure between the Project and NEPG has been identified and assessed during the on-site assessment. The readings of the main meter and separate meters are monthly recorded and the electricity transacted are jointly confirmed by the two parties every month. In order to ensure the completeness of the records of the meter, the PP had taken the effective actions including the installation, adjustment, calibration and continual monitoring for the meters. The ETNs are used to cross-check with the Monthly Reading Records (MRR)^{[8][9]}. The data both of MRR and ETNs have been verified and found consistent.

3) Calibration^{[10][11]}

As per the MP of VCS-PD, the calibration of meters should be implemented according to the standards required by the signed PPA and related national standard, i.e. "Technical administrative code of electric energy metering" (DL/T448-2000). The calibration records of the meters as the follow Table 1, Table 2 and Table 3.

Table 1 Calibration Records of the Gateway Meters

	Main meter	Backup meter
Model/Type	Landis+Gyr /ZMD402CT44	Landis+Gyr /ZMD402CT44
Accuracy Class	0.2S	0.2S
Serial No.	94348627	94348626
Validated on	06/11/2008 05/04/2009	
Validity period	06/11/2008~04/04/2010	
Calibrator	Jilin Electric Power Supervision & Calibration Center	
Accreditation Certificate for the calibrator	(Ji) Fa Ji (2005) No. 0141; issued on 31/07/2005 and valid to 31/07/2009 (Ji) Fa Ji (2009) No. 0112; issued on 31/12/2009 and valid to 30/12/2013	
Accredited by	Jilin Province Quality and Technology Supervision Bureau	

Table 2 Calibration Records of the Separate Meters

	Separate Meters of the Project	Separate Meters of the other four projects
Model/Type	DTSD341 Weisheng	DTSD341 Weisheng
Accuracy Class	0.5S	0.5S
Serial No.	m4 -20070865050071(accuracy class:0.2s) m5 -20070865050025 m6 -20070865050021	m1 -20070865050028 m2 -20070865050026 m3 -20070865050027 m7 -20070865050146 m8 -20070865050145 m9 -20070865050142 m10 -20070865050141

		m11 -20070865050151 m12 -20070865050143
Calibration Date	m1-06/11/2008 13/03/2009 m2-06/11/2008 13/03/2009 m3-06/11/2008 13/03/2009 m4-06/11/2008 13/03/2009 m5-06/11/2008 13/03/2009 m6-06/11/2008 13/03/2009 m7-10/11/2008 01/04/2009 m8-10/11/2008 01/04/2009 m9-10/11/2008 01/04/2009 m10-01/04/2009 m11-01/04/2009 m12-01/04/2009	
Validity period	m1-06/11/2008~12/03/2010 m2-06/11/2008~12/03/2010 m3-06/11/2008~12/03/2010 m4-06/11/2008~12/03/2010 m5-06/11/2008~12/03/2010 m6-06/11/2008~12/03/2010 m7-10/11/2008~31/03/2010 m8-10/11/2008~31/03/2010 m9-10/11/2008~31/03/2010 m10-01/04/2009~31/03/2010 m11-01/04/2009~31/03/2010 m12-01/04/2009~31/03/2010	
Calibrator	Jilin Electric Power Supervision & Calibration Center	
Accreditation Certificate for the calibrator	(Ji) Fa Ji (2005) No. 0141; issued on 31/07/2005 and valid to 31/07/2009 (Ji) Fa Ji (2009) No. 0112; issued on 31/12/2009 and valid to 30/12/2013	
Accredited by	Jilin Province Quality and Technology Supervision Bureau	

Table 3 Calibration Records of the 10kV spare line Meter

	10kV spare line meter
Model/Type	DTSD318/1.5(6)
Accuracy Class	1.0
Serial No.	60014972
Validated on	12/08/2008 10/08/2009
Validity period	12/08/2008~09/08/2010
Calibrator	Da'an Agricultural and Electrical Co., Ltd
Accreditation Certificate for the calibrator	(Ji)Fa Ji (2006) No. 0010; issued on 04/01/2006 and valid to 03/01/2010 (Ji)Fa Ji (2009) No. 0242; issued on 31/12/2009 and valid to 30/12/2013
Accredited by	Jilin Province Quality and Technology Supervision Bureau

BVC has verified the above calibration records issued by the calibrator and accreditation certificate of the calibrator. BVC can conclude that the meters installed are within suitable accuracy level and are calibrated in line with relevant national standards and the VCS-PD, with the valid period covering this monitoring period.

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.

Net supply of electricity is calculated as:

$$EG_y = EG_{\text{export}} - (EG_{\text{import}} + EG_{\text{import},10\text{kV}})$$

EG_y	Net electricity supplied to the grid by the Project
EG_{export}	Electricity exported to the grid by the Project via the 220kV transmission line
EG_{import}	Electricity imported from the grid via the 220kV transmission line
$EG_{\text{import},10\text{kV}}$	Electricity imported from the grid via the 10kV spare line

As listed in the MP of registered PDD, the net electricity exported to the grid by the Project (EG_{export}) is calculated as follows:

$$EG_{\text{export}} = EG_{\text{main,export}} * E_{\text{project}} / (E_{\text{project}} + E_{\text{other}})$$

$EG_{\text{main,export}}$	Electricity exported to the grid by the Project and other four projects via the 220kV transmission line measured by the main meter
E_{project}	Electricity generation from the project activity measured by the separate meters (m4 m5 m6)
E_{other}	Electricity generation from other four wind farm projects metered by other separate meters (m1 m2 m3, m7 m8 m9, m10 m11 m12, m13 m14)

BVC has verified the manual records of the above meters and cross checked the data with ETNs covering the period from January 2009 to March 2010, and found the reported data to be consistent and substantial.

3.3. Management and Operational System

The VCS-PD and MR has clearly prescribed the management and operational procedures for the various steps involved in the Project, which includes monitoring, recording, archiving of the data of the Project. The procedures are available as a documentation which has been verified by BVC and found to be consistent with the VCS-PD and CDM monitoring methodology ACM0002 version 07.

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 project proponent to determine emission reductions have been verified as of sufficient quantity and appropriate quality.

3.5. Accuracy of Emission Reduction Calculations

The calculation of emission reductions has been verified to be appropriate, conservative and in accordance with the CDM methodology ACM0002 version 07.

As the project emission is 0 according to the VCS-PD and ACM0002 version 07, the emission reductions are equal to the baseline emissions, with consideration of project emissions and Leakage to be zero:

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

Where:

ER_y : Emission Reductions

BE_y : Baseline Emissions

EF_y : GHG Emission Factor of the NEPG, calculated ex-ante and fixed for this reporting period (unit: tCO_{2e}/MWh). As per the VCS-PD, the EF_y during this reporting period is 1.1461tCO_{2e}/MWh.

PE_y : Project Emissions

LE_y : Leakage

The net electricity delivered to the grid (EG_y) is the result of the electricity exported to the grid (EG_{export}) minus the electricity imported from the grid via the 220KV transmission line (EG_{import}) and the electricity imported from the 10kV spare line ($EG_{\text{import},10kV}$) viz

$$EG_y = EG_{\text{export}} - (EG_{\text{import}} + EG_{\text{import},10kV})$$

The net electricity exported to the grid by the Project (EG_{export}) is the result of the electricity exported to the grid by the Project and other four projects measured by the main meter (EG_{main}) multiplied by the share of the Project ($E_{\text{share}} = E_{\text{project}} / (E_{\text{project}} + E_{\text{other}})$) in the total electricity exported to the grid viz:

$$EG_{\text{export}} = EG_{\text{main,export}} * E_{\text{project}} / (E_{\text{project}} + E_{\text{other}})$$

According to the VCS-PD, data measured by the meters will be cross-checked against the ETNs within the same period. BVC has checked MRR of the meters and ETNs, and found that they are consistent.

The verified electricity exported to the grid by the Project (EG_{export}) is calculated through $EG_{\text{main,export}}$, E_{project} and E_{other} . The calculation process is shown in the following Table 4.

Table 4 The verified net electricity exported to the grid by the Project (Unit: kWh)

From 01/01/2009 to 24/12/2009

Period	E_{project}	$E_{\text{project}} + E_{\text{other}}$	E_{share}	$EG_{\text{main,export}}$	Calculated EG_{export}	Verified EG_{export}
	A	B	C=A/B	D	E=D*C	F=E
01/01/09-24/01/09	4,430,601	9,644,481	45.94%	9,621,216	4,419,913	4,419,913

25/01/09-24/02/09	6,097,182	15,829,212	38.52%	15,796,000	6,084,389	6,084,389
25/02/09-24/03/09	9,655,086	26,810,448	36.01%	26,756,928	9,635,812	9,635,812
25/03/09-24/04/09	9,611,553	26,765,151	35.91%	26,630,912	9,563,347	9,563,347
25/04/09-24/05/09	10,933,524	29,518,104	37.04%	29,444,800	10,906,372	10,906,372
25/05/09-24/06/09	6,531,063	21,188,853	30.82%	21,142,528	6,516,784	6,516,784
25/06/09-24/07/09	5,930,547	22,462,167	26.40%	22,416,416	5,918,468	5,918,468
25/07/09-24/08/09	5,692,575	21,950,145	25.93%	21,827,872	5,660,865	5,660,865
25/08/09-24/09/09	11,083,233	42,530,523	26.06%	42,490,624	11,072,836	11,072,836
25/09/09-24/10/09	7,843,836	29,730,876	26.38%	29,653,536	7,823,432	7,823,432
25/10/09-24/11/09	12,379,521	47,634,741	25.99%	47,534,432	12,353,452	12,353,452
25/11/09-24/12/09	7,447,923	26,764,353	27.83%	26,708,352	7,432,339	7,432,339
Total						97,388,009

From 25/12/2009 to 08/03/2010

Period	E _{project}	E _{project} +E _{other}	E _{share}	EG _{main,export}	Calculated EG _{export}	Verified EG _{export}
	A	B	C=A/B	D	E=D*C	F=E
25/12/09-20/01/10	3,284,673	11,335,863	28.98%	11,311,872	3,277.721	3,277.721
21/01/10-24/02/10	10,822,329	39,904,389	27.12%	39,820,704	10,799.633	10,799.633
25/02/10-08/03/10	2,834,181	11,347,371	24.98%	11,323,488	2,828.216	2,828.216
Total						16,905.570

The verified electricity delivered to the grid by the Project (EG_y) is calculated through EG_{export}, EG_{import} and EG_{import,10kV}. The calculation process is shown in the following Table 5.

Table 5 The verified net electricity delivered to the grid by the Project (Unit: kWh)

From 01/01/2009 to 24/12/2009

Period	Electricity imported from the grid		Verified EG _{import}	Verified EG _{export}	Verified EG _{import,10kV}	Verified EG _y
	MRR	ENT				
	A	B	C=max(A,B)	D	E	F=D-C-E
01/01/09-24/01/09	77,088	68,640		4,419,913	0	
25/01/09-24/02/09	63,712	95,040		6,084,389	0	
05/02/09-24/03/09	42,944	47,520		9,635,812	0	
25/03/09-24/04/09	65,120	47,520		9,563,347	0	
25/04/09-24/05/09	28,160	42,240		10,906,372	0	
25/05/09-24/06/09	48,224	42,240		6,516,784	0	
25/06/09-24/07/09	69,696	63,360		5,918,468	0	

25/07/09-24/08/09	58,784	58,080		5,660,865	0	
25/08/09-24/09/09	44,352	52,800		11,072,836	0	
25/09/09-24/10/09	61,600	58,080		7,823,432	0	
25/10/09-24/11/09	65,120	58,080		12,353,452	0	
25/11/09-24/12/09	150,656	137,280		7,432,339	0	
Total	775,456	1351,680	1351,680	97,388,009	0	96,036,329

From 25/12/2009 to 08/03/2010

Period	Electricity imported from the grid		Verified EG _{import}	Verified EG _{export}	Verified EG _{import,10kV}	Verified EG _y
	MRR	ENT				
	A	B				
			C=max(A,B)	D	E	F=D-C-E
25/12/09-20/01/10	432,960	580,800		3,277,721	0	
21/01/10-24/02/10	7,040	121,440		10,799,633	0	
25/02/10-08/03/10	190,080	89,760		2,828,216	0	
Total	630,080	929,280	929,280	16,905,570		15,976,290

The emission factor is determined as 1.1461 tCO₂e/MWh same as the value for the first CDM crediting period, therefore, emission reductions for the monitoring period from 01/01/2009 to 24/12/2009 are:

$$\begin{aligned} \text{EG}_y &= \text{EF}_y \times \text{EG}_y = 1.1461 \text{ tCO}_2\text{e/MWh} \times 96,036,329 / 1,000 \text{ MWh} \\ &= 110,067 \text{ tCO}_2\text{e} \end{aligned}$$

The emission reductions for the period from 25/12/2009 to 08/03/2010 are:

$$\begin{aligned} \text{EG}_y &= \text{EF}_y \times \text{EG}_y = 1.0405 \text{ tCO}_2\text{e/MWh} \times 15,976,290 / 1000 \text{ MWh} \\ &= 18,310 \text{ tCO}_2\text{e} \end{aligned}$$

The emission reductions for the period from 01/01/2009 to 08/03/2010 are:

$$\begin{aligned} \text{EG}_y &= \text{EF}_y \times \text{EG}_y = 1.0405 \text{ tCO}_2\text{e/MWh} \times 112,012,617 / 1000 \text{ MWh} \\ &= 128,377 \text{ tCO}_2\text{e} \end{aligned}$$

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 Electricity Transaction Notes 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 02.

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. The plant manager is responsible for data protection exclusively with access restrictions^[12].

The meters of the Project have been calibrated by Jilin Metrological Measuring Institute and the certificate of calibrator has been checked and verified during the on-site audit^{[10] [11]}.

4. VERIFICATION CONCLUSION

BVC has performed a verification of emission reductions generated prior to the CDM registration of Jilin Da'an Dagangzi Wind Power Project Phase II (UNFCCC CDM Registration No.2586 registered on 09/03/2010). The verification is based on the currently valid VCS Program 2007.1 released by Voluntary Carbon Standard Association on 18 November 2008.

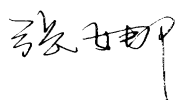
The management of Jilin CGN Wind Power Co., Ltd is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions of the Project on the basis set out within the monitoring procedures in the VCS-PD version 1.0 dated 08/03/2010. The development and maintenance of records and reporting procedures in accordance with that plan, including the calculation and determination of GHG emission reductions from the Project is the responsibility of the management of the project.

BVC verified the VCS Monitoring Report version 02 dated 15/11/2010 for the reporting period as indicated below. BVC 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 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, MP 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 the amount of VCUs associated with the project specific monitoring report that has been verified as following statement:

Reporting period : 01/01/2009 to 08/03/2010
 Baseline emissions : 128,377 t CO₂ equivalents.
 Project emissions : 0 t CO₂ equivalents.
 Emission Reductions : 128,377 t CO₂ equivalents (VCUs)

Period	Emission Reductions
01/01/2009-24/12/2009	110,067 t CO ₂ equivalents (VCUs)
25/12/2009-08/03/2010	18,310 t CO ₂ equivalents (VCUs)

 Zhang Na

Nancy Zhang Na
 Team Leader
 Date: 19/11/2010



Robin Wang Jing
 Internal Reviewer
 Date: 19/11/2010

5. REFERENCE

Category 1 Documents:

Documents provided by Jilin CGN Wind Power Co., Ltd that relate directly to the GHG components of the project.

- [1] VCS Project Description Version 1.0 dated 28/09/2010
- [2] Registered CDM Project Design Document (PDD) version 05 dated 18/02/2010
- [3] CDM Validation Report Rev.No.03 dated 25/02/2010
- [4] VCS Monitoring Report version 01 dated 28/09/2010
- [5] VCS Monitoring Report version 02 dated 15/11/2010

Category 2 Documents:

Background documents related to the design and/or methodologies employed in the design or other reference documents.

- [6] Diagram of Power System Connection of the project
- [7] Power Purchase Agreement (PPA) between the PP and the grid company
- [8] Monthly Reading Records(MRR) of the PP
- [9] Electricity Transaction Notes (ETNs) from January 2009 to March 2010
- [10] Calibration Certificates of all the meters
Certificate of authorization for Jilin Electric Power Supervision & Calibration Center. Certificate code was (Ji) Fa Ji (2005) No. 0141, issued on 31/07/2005 and valid to 31/07/2009 and (Ji) Fa Ji (2009) No. 0112; issued on 31/12/2009 and valid to 30/12/2013.
- [11] Certificate of authorization for Da'an Agricultural and Electrical Co., Ltd. Certificate code was (Ji) Fa Ji (2006) No. 0010; issued on 04/01/2006 and valid to 03/01/2010 (Ji) Fa Ji (2009) No. 0242; issued on 31/12/2009 and valid to 30/12/2013
- [12] CDM Monitoring & Management Manual
- [13] 240 hours Commissioning Acceptance Report

Persons interviewed:

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

- /1/ Ms. Li Binghua, CDM Manager of the PP
- /2/ Ms. Yan Shuang Project Manager of the PP
- /3/ Mr. Guo Yonggang , Operation Manager of the PP