VERIFICATION AND CERTIFICATION REPORT

CAMCO International Ltd.

Honiton Energy Bailingmiao Phase One Wind Farm Project

SGS Climate Change Programme
SGS United Kingdom Ltd
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Date of Issue:	**Project Number:**
10/08/2009	CCP.VOL0231
Project Title:	
Honiton Energy Bailingmiao Phase One Wind Farm Project	
Organisation:	**Client:**
SGS United Kingdom Limited	CAMCO International Ltd.
Publication of Monitoring Report:	
Monitoring Period:	07/01/2008 to 30/04/2009
First Monitoring Version and Date:	Version 01, 20/05/2009
Final Monitoring Version and Date:	Version 02, 04/08/2009

Summary:

SGS United Kingdom Ltd has performed the first periodic verification of the Gold Standard VER project Honiton Energy Bailingmiao Phase one Wind Farm Project (GS Project ID. GS449). The verification includes confirming the implementation of the monitoring plan of the registered GS-VER-PDD Version 03 dated 13/04/2009 and the application of the monitoring methodology as per ACM0002 Version 07 dated 30/11/2007. A site visit was conducted to verify the data submitted in the monitoring report.

The project is a grid connected renewable energy project. It was designed to install 40 sets wind turbines with a rated unit capacity of 1.25MW each to deliver about 110.9GWh annually up to the North China Power Grid (NCPG), replacing fossil fuel consumption and thus reducing GHG emissions.

The total installed capacity is 50MW, the first wind turbine started to operate on 07/01/2008, and all the 40 wind turbines are fully operational since April 2008.

SGS confirms that the project is implemented in accordance with the validated and registered Project Design Document. The monitoring system is in place and the emission reductions are calculated without material misstatements. Our opinion relates to the projects GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information seen and evaluated we confirm that the implementation of the project has resulted in **145,015**tCO_2e Emission Reductions during period 07/01/2008 up to 30/04/2009.

Subject:

GS Verification

Verification Team:

Niclo Deng Wei – Lead Assessor
Simon Zhao Xinguang – Assessor
Karen Tong Yumei – Local Assessor

Technical Review:	**Trainee Technical Reviewer:**
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Authorised Signatory:

Name: Siddharth Yadav
Date: 13th August 2009

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Abbreviations

CAR	Corrective Action Request
CDM	Clean Development Mechanism
CL	Clarification Request
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
DNA	Designated National Authority
DOE	Designated Operational Entity
DRRs	Daily Reading Records
EB	Executive Board
EF	Emission Factor
ERs	Emission Reductions
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
GS	Gold Standard
GS VER	Gold Standard Voluntary Emission Reduction
GS-VER-PDD	Gold Standard Voluntary Emission Reduction Project Design Document
GS-TAC	Gold Standard Technical Advisory Committee
IPCC	Intergovernmental Panel on Climate Change
Local/regional expert	Somebody who has demonstrable experience in the sector and country/region of the proposed project activity
MP	Monitoring Plan
MR	Monitoring Report
MRRs	Monthly Reading Records
NCPG	North China Power Grid
PDD	Project Design Document
PP	Project Participant
PPA	Power Purchase Agreement
SGS	Société Générale de Surveillance
UNFCCC	United Nations Framework Convention on Climate Change

Table of Content

1. Introduction

1.1 Objective

SGS United Kingdom Ltd has been contracted by CAMCO International Ltd. to perform an independent verification of its Gold Standard VER project "Honiton Energy Bailingmiao Phase one Wind Farm Project". GS-VER projects must undergo periodic audits and verification of emission reductions as the basis for issuance of Golden Standard Voluntary Carbon Emission Reduction credits (GS VER).

The objectives of this verification exercise are, by review of objective evidence, to establish that:

- The emissions report conforms with the requirements of the monitoring plan in the registered GS-VER-PDD and the approved methodology; and
- The data reported are complete and transparent.

1.2 Scope

The scope of the verification is the independent and objective review and ex post determination of the monitored reductions in GHG emission by the project activity. The verification is based on the validated and registered project design document and the monitoring report. The project is assessed against the requirements of the Kyoto Protocol, the CDM Modalities and Procedures, related rules and guidance from the CDM EB and the GS-TAC.

SGS has, based on the recommendations in the Validation and Verification Manual, employed a risk-based approach in the verification, focusing on the identification of significant reporting risks and the reliability of project monitoring.

The verification 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.

1.3 Project Activity and Period Covered

This engagement covers emissions and emission reductions from anthropogenic sources of greenhouse gases included within the project boundary of the following project and period.

Title of Project Activity:	Honiton Energy Bailingmiao Phase one Wind Farm Project
GS Project ID:	GS449
Monitoring Period Covered in this Report	07/01/2008 to 30/04/2009
Project Participants	Honiton Energy (Baotou) Co., Ltd. (P.R.China)
	CAMCO International Ltd. (UK)
Location of the Project Activity:	Bailingmiao Town, Damao County, Baotou city, P. R. China

This is the verification of retroactive credits prior to the date of registration, following guidance VIII.g.11 in GS requirements, SGS is able to carry out this verification although it is the validator of this project activity.

The project is a grid connected renewable energy project. It was designed to install 40 sets wind turbines with a rated unit capacity of 1.25MW each to deliver about 110.9GWh annually up to the North China Power Grid (NCPG), replacing fossil fuel consumption and thus reducing GHG emissions.

The total installed capacity is 50MW, the first wind turbine started to operate on 07/01/2008, and all the 40 wind turbines are fully operational since April. 2008.

2. Methodology

2.1 General Approach

SGS's approach to the verification is a two-stage process.

In the first stage, SGS completed a strategic review and risk assessment of the projects activities and processes in order to gain a full understanding of:

- Activities associated with all the sources contributing to the project emissions and emission reductions, including leakage if relevant;
- Protocols used to estimate or measure GHG emissions from these sources;
- Collection and handling of data;
- Controls on the collection and handling of data;
- Means of verifying reported data; and
- Compilation of the monitoring report.

At the end of this stage, SGS produced a Periodic Verification Checklist which, based on the risk assessment of the parameters and data collection and handling processes for each of those parameters, describes the verification approach and the sampling plan.

Using the Periodic Verification checklist, SGS verified the implementation of the monitoring plan and the data presented in the Monitoring Report for the period in question. This involved a site visit and a desk review of the monitoring report. This verification report describes the findings of this assessment.

2.2 Verification Team for this Assessment

Name	Role	SGS Office
Niclo Deng Wei	Lead Assessor	SGS China
Simon Zhao Xinguang	Assessor	SGS China
Karen Tong Yumei	Local Assessor	SGS China

2.3 Means of Verification

2.3.1 Review of Documentation

The validated PDD, the monitoring report submitted by the client and additional background documents related to the project performance were reviewed. A complete list of all documents reviewed is attached in section 8 of this report.

2.3.2 Site Visits

As part of the verification, the following on-site inspections have been performed

Location: Bailingmiao Town, Damao County, Baotou City, P. R. China	
Date: 18/06/2009~19/06/2009	
Coverage:	**Source of Information / Persons Interviewed**

1. Review of the monitoring report, metering reading records, invoices and monthly reading records, sustainable develop development indicators; 2. An interview with project participants including reviewing the installation plan and key physical components of the project, monitoring report and staff training records; 3. Collection of the calibration certificates for all the meters involved and the accreditation certificate of the calibration entity; 4. Inspection of the control room, instrument room and step-up substation in the wind farm.	Mr. Fang Liqiang, CDM consultant, CAMCO International Ltd. Mr. Zhao Jiajing, CDM manager, Honiton Energy Ltd. Ms. Miao Qing, Financial department, Honiton Energy (Baotou) Ltd. Mr. Qiao Yu, Operation department, Honiton Energy (Baotou) Ltd. Ms. Liang Caixia, Operation department, Honiton Energy (Baotou) Ltd. Ms. Cheng Yan, CDM monitoring staff, Honiton Energy (Baotou) Ltd. Mr. Tumen Jirigala, Local resident Mr. Cao Xiaobin, Local resident

2.4 Reporting of Findings

As an outcome of the verification process, the team can raise different types of findings

In general, where insufficient or inaccurate information is available and clarification or new information is required the team shall raise a Clarification Request (CL) specifying what additional information is required.

Where a non-conformance arises the team shall raise a Corrective Action Request (CAR). A CAR is issued, where:

I. the verification is not able to obtain sufficient evidence for the reported emission reductions or part of the reported emission reductions. In this case these emission reductions shall not be verified and certified;

II. the verification has identified misstatements in the reported emission reductions. Emission reductions with misstatements shall be discounted based on the verifiers ex-post determination of the achieved emission reductions

The verification process may be halted until this information has been made available to the assessors' satisfaction. Failure to address a CL may result in a CAR. Information or clarifications provided as a result of an CL may also lead to a CAR.

Forward Request Action (FAR) may be raised which are for the benefit of future projects and future verification actors. These have no impact upon the completion of the verification activity.

Corrective Action Requests and Clarification Requests are detailed in Periodic Verification Checklist. The Project Developer is given the opportunity to "close" outstanding CARs and respond to CLs and FARs.

2.5 Internal Quality Control

Following the completion of the assessment process and a recommendation by the Assessment Team, all documentation will be forwarded to a Technical Reviewer. The task of the Technical Reviewer is to check that all procedures have been followed and all conclusions are justified. The Technical Reviewer will either accept or reject the recommendation made by the assessment team.

3. Verification Findings

3.1 Project Documentation and Compliance with the Registered GS-VER-PDD

Based on the project information available on the GS website, https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=449, the project was registered with GS registry on 15/05/2009 with the first crediting period for the project is from 07/01/2008 to 06/01/2015. This is the first GS-VER periodic verification for the project covering the period from 07/01/2008 to 30/04/2009.

The project was registered against the UNFCCC approved consolidated CDM methodology ACM0002 Version 07 dated 30/11/2007. The monitoring methodology has been correctly applied and the documents for this monitoring period are complete and transparent. The project boundary is consistent with the registered GS-VER-PDD. Management and operational system is in place. QA/QC procedures stipulated in the registered GS-VER-PDD have been followed. The project has been implemented in compliance with the registered GS-VER-PDD.

No fossil fuel consumption equipment for power generation was found.

No findings were raised in this regard.

3.2 Monitoring Results

3.2.1 Emission Reductions

According to the registered MP, parameters regarding baseline emissions required to be monitored are listed in below table. No project emission parameters and leakage parameters are required to be monitored;

Parameter monitored	Description	Comment
$E_{out,y}$	The electricity supplied to the NCPG by the proposed project	Hourly measured by the meter M1 and M2 installed at the Honiton Bailingmiao Phase One Plant 220kV line and Hongta 220kV substation respectively and monthly recorded. In case Honiton Energy Bailingmiao Phase Two wind farm project delivers electricity to NCPG, $E_{out,y}$ will be measured by the meter installed at 35kV lines. Double check by sales receipts.
$E_{in,y}$	The electricity purchased from the NCPG	Hourly measured by the meter M1 and M2 installed at the Honiton Bailingmiao Phase One Plant 220kV line and Hongta 220kV substation respectively and monthly recorded. In case Honiton Energy Bailingmiao Phase Two wind farm project delivers electricity to NCPG, $E_{out,y}$ will be measured by the meter installed at 35kV lines. Double check by sales receipts.
$E_{backup,y}$	The electricity purchased from the grid through the 10kV line	Hourly measured by the meter installed at 10kV line and monthly recorded, the invoices will be used for check.
EG_y	net electricity supplied by the project activity to the grid	$EG_y = E_{out,y} – E_{in,y} – E_{backup}$

Till the end of this monitoring period, Honiton Energy Bailingmiao Phase Two has not been put into delivery, thus $E_{out,y}$ and $E_{in,y}$ were measured by the meter M1. The registered MP and monitoring manual has been

reviewed by the verification team. During the site visiting, a witness check to the monitoring procedures has been carried out and relevant staffs have been interviewed to confirm their eligibility.

3.2.1.1 $E_{out,y}$, Electricity supplied to the NCPG by the proposed project, MWh

This parameter was continuously measured by two bidirectional meters M1 and M2 installed at the high voltage side of 220kV transformer in the substation of the wind farm and 220kV Hongta substation outside the wind farm respectively. Another two backup meters have also been installed accompanying the main meters at the same locations. The backup meters will be used if the main meters were out of work. M1 meters were owned, operated and read by the wind farm while M2 meters were owned, operated and read by the grid company. M2 meters were assigned for trading according to the signed PPA (/8/). The designed accuracy class of all the meters mentioned above is 0.2S which is in conformity with the relevant requirements of national standard DL/T448-2000 (/39/). The meter installation is in consistency with the prescriptions in the registered MP.

Qualified staff of the wind farm read the main meter and backup meter of M1 on a hourly basis and recorded the readings in the Daily Reading Records (DRRs), at 24:00hrs of the last day of every month. The aggregated daily readings were converted to Monthly Reading Records (MRRs) by qualified staff members. The MRRs were approved and signed by the operational manager then archived. Monthly internal auditing was carried out to ensure the quality of data. The main meter and backup meter of M2 were read and recorded by the local grid company, and the readings were provided to the wind farm on a monthly basis. The sales receipts were issued by the wind farm to the local grid company based on the told readings of M2 as per signed PPA. All the sales receipts were kept by the wind farm for double check. Apart from the period from 07/01/2008~29/02/2008, the amount of electricity in sales receipts was slightly smaller (about 0.7%) than the recorded readings in MRRs due to the transmission loss. The sales receipts for the period from 07/01/2008~29/02/2008 is about 10% smaller than the MRRs. The clarification issued by the grid company indicated that the meters installed at Hongta substation were not working properly during the period from 07/01/2008~28/02/2008, the confirmed electricity supplied to the grid is smaller than the one measured by the meters installed at the wind farm. The clarification has been verified by the SGS verification team. The PP adopted smaller ones between MRRs and sales receipts for ERs calculation, this assumption is deemed conservative by the assessment team. At the very beginning of the monitoring period when the turbines were gradually commissioned and put into operation, the sales receipts were not issued monthly, therefore the aggregated values of MRRs were double checked against the sales receipts for the same period.

The original MRRs and the sales receipts (/15/, /17/) have been checked against each other to confirm the completeness, accuracy and conservativeness of the reported values. The DRRs (/14/) have also been randomly checked as supplemental verification. The verified $E_{out,y}$ has been detailed in Section 4.

Following the registered MP, M1 and M2 meters mentioned above have been calibrated according to applied national regulation JJG596-1999 by Inner Mongolia Electric Power Research Institute accredited by the Quality and Technology supervision Bureau of Inner Mongolia Autonomous. The calibrated accuracy class is 0.2S for all meters. Calibration certificates for M1 main meter dated 20/09/2007, M2 main meter dated 25/06/2007, M1 backup meter dated 20/09/2007 and M2 backup meter dated 20/09/2007 (/10/), as well as the accreditation certificate of calibration entity (/11/) have been obtained and verified. It is stated in MR that the next calibration will be within three years after the date of calibration certificates above, and it satisfies the recommended calibration frequency which is once per five years in JJG596-1999. The calibration (including the calibration procedure and frequency etc.) are in line with the registered MP and the calibration conclusions reflect the accuracy of the meters.

No findings were raised in this regard.

3.2.1.2 $E_{in,y}$, Electricity purchased from the NCPG, MWh

This parameter was measured by the same metering system as $E_{out,y}$. The monitoring procedures and calibration procedures are also the same as $E_{out,y}$. The sales receipts issued by the local grid company to the wind farm were used for double check. For $E_{in,y}$ during this monitoring period, the values in MRRs and sales receipts were different due to the transmission loss and non-synchronously recording by the wind farm and grid company. For the period from 07/01/2008 to 31/03/2008, the sales receipt is much bigger than aggregated MRRs due to the involvement of electricity imported prior to the starting date of this monitoring

period. The larger values between MRRs and sales receipts were adopted for ERs calculation, this is deemed conservative by the assessment team.

The original MRRs and the sales receipts (/15/, /18/) have been checked against each other to confirm the completeness, accuracy and conservativeness of the reported values. The DRRs (/14/) have also been randomly checked as supplemental verification. The verified $E_{in,y}$ has been detailed in Section 4.

No findings were raised in this regard.

3.2.1.3 E_{backup}, Electricty purchased from the grid through the 10kv line, MWh

This parameter was measured by the meter installed at the 10kV backup line. The meter was broken and changed on 20/04/2008. After the change, the designed accuracy class of the meter is 2.0 which is in conformity with the relevant requirements of national standard DL/T448-2000. Calibration has been carried out for the two meters by Damao Power Company accredited by the Quality and Technology supervision Bureau of Baotou City. The calibration certificates for original meter dated 10/12/2007 and changed meter dated 20/04/2008 (/12/), as well as the accreditation certificate of Damao Power Company (/13/) have been obtained and verified by the assessment team. The meter readings were recorded by qualified staff members of the wind farm monthly. The local grid company read and recorded the meter independently and issued sales invoices to the wind farm on a monthly basis. Since the local grid company did not read the meter at the same time of the wind farm, the readings on MRRs and sales invoices are different. It is acceptable because $E_{backup,y}$ only takes 0.02% of the EG_y during this monitoring period the impact of which is far below the uncertainty threshold of the main meters, hence it is accepted by the assessment team. Further, larger values were adopted for ERs calculation in version 02 of MR, this is deemed conservative.

The original MRRs and the sales receipts (/15/, /19/) have been checked against each other to confirm the completeness, accuracy and conservativeness of the reported values. The DRRs (/14/) have also been randomly checked as supplemental verification. The verified $E_{backup,y}$ has been detailed in Section 4.

No findings were raised in this regard.

3.2.2 Sustainable Development Indicator

3.2.2.1 Employment(number)

Following the registered MP, until site visiting, 25 staffs have been employed permanently working in the wind farm (excluding the staffs in Baotou office and Beijing office), the name list and salary payment sheets (/21/) have been reviewed by the assessment team. The interview of relevant staff on site also confirmed the fact.

3.2.2.2 Employment(quality)

Relevant trainings including the technical training, CDM monitoring training and Health and safety training have been carried out. Relevant training records (/23/, /24/, /25/) have been obtained and checked by the assessment team. Salary payment sheets indicated that the welfare have been paid in accordance with local laws. The interview of relevant staff on site also confirmed the fact.

3.2.2.3 Soil Condition

The project has not obtained the final acceptance on environment protection issued by local environmental protection bureau officially. Hence, annual monitoring of soil condition was carried out by an independent third party. The soil protection confirmation issued by soil protection office of Damao county dated 13/06/2008 and site environmental management review report including soil condition report issued by Mott MacDonald dated 03/06/2009 have been obtained and checked by the assessment team. The continuous improvement of soil condition on site has been documented in reports, reflecting the action on soil condition rehabilitation carried out by the project owner. It is also observed by the verification team that the land occupied for construction was under rehabilitation by the staff members during the on site visiting.

3.2.2.4 Human and institutional capacity

Until the site visiting, three English teachers had been or are being employed by the project owner for English teaching in Damaoqi Mongolian School. The contracts between the project owner and the school, offers and contracts between the project owner and teachers, salary payment sheets have been obtained and confirmed. The roll-call list of 2008 vintage has also been checked.

3.2.2.5 Water quality

The waste water and noise verification has been carried out by Lvjie Environment Company which is an independent third party accredited by Inner Mongolia Quality and Technique Supervision. The verification report (report no. SW2009-05-26-010) issued on 26/05/2009 (/28/) indicated that the effluent sewerage was in compliance with relevant national standard GB8978-1996 (/40/). Therefore, no further monitoring regarding water quality is required according to the registered GS-VER-PDD. The verification report and accreditation certificate (/29/) have been obtained and verified by the SGS assessment team.

3.2.2.6 Noise Pollution

The waste water and noise verification has been carried out by Lvjie Environment Company which is an independent third party accredited by Inner Mongolia Quality and Technique Supervision. The verification report (report no. SW2009-05-26-010) issued on 26/05/2009 indicated that the noise at the boundary of the project was in compliance with relevant national standard GB12348-90 (/41/). Therefore, no further monitoring regarding noise is required according to the registered GS-VER-PDD. The verification report and accreditation certificate have been obtained and verified by the assessment team.

3.2.2.7 Grassland owner compensation fees

29 local grassland owners whose grassland has been occupied by the project or construction have been identified and compensated. Contracts signed between the project owner and local grassland owners (/30/) have been verified by the assessment team. By interview with the president of village and other villagers, it has been confirmed that the all the compensation fees have been satisfied in accordance with national regulation (/31/, /32/).

3.3 Remaining Issues, CAR's, CL's from Previous Validation or Verification

This is the first GS-VER periodic verification and there are no remaining issues from previous validation.

3.4 Project Implementation

This is the first periodic verification. All the 40 sets of wind turbines, relative auxiliary equipments and relative monitoring equipments have been installed properly. The configuration of the project installation and metering equipments has been verified by the assessment team (/7/). The grid connection agreement confirmed the actual practice of the installation (/9/). Project was implemented and equipments were installed as described in the registered GS-VER-PDD. All the facilities and monitoring equipments were remaining in place as per the registered GS-VER-PDD and working properly. No emergency regarding the monitoring system occurs during this monitoring period.

	Description in registered PDD	Verified actual practice	Comment
Total install capacity	50MW	50MW	Consistent
Load Factor (LF=$E_{out,y}$/Installed Capacity * Time Period)	0.253	0.243	Varies with the gradually installation and actual wind energy fluctuation. It is within reasonable range.

No information provided in MR that different from the registered PDD has induced over estimation of emission reductions.

No findings were raised in this regard.

3.5 Completeness of Monitoring

The reporting procedures reflect the content of the monitoring plan. The monitoring mechanism is effective and reliable. All the statements in the MP have been fully satisfied and the monitoring is of completeness.

No findings were raised in this regard.

3.6 Accuracy of Emission Reduction Calculations

The calculation of emission reductions is found to be correct. No CARs were raised. The details of the reported and the verified values for all parameters are listed in section 4.

3.7 Quality of Evidence to Determine Emission Reductions

Evidences and supporting documents for each parameter used for the determination of the Emission Reductions and sustainable development indicators are discussed above in section 3.2 and 3.9. All evidences provided are transparent and verifiable.

No findings were raised in this regard.

3.8 Management System and Quality Assurance

Management system and QA/QC procedures have been stipulated in the registered MP and have been established and implemented during daily operation. The Project Officer of the project owner took the overall responsibility of the monitoring. Other staffs have been allocated for corresponding duties such as operation and maintains, data recording, data processing, etc. Relevant trainings have been carried out for both wind farm operation and monitoring. Monthly internal auditing has been carried out by the operational manager to ensure the quality of data and evidences. Relative documents including the monitoring manual (/37/), training records (/22/), monthly internal auditing reports (/16/) and staff qualification (/38/) have been reviewed by assessment team during site visiting. It is confirmed that the management system of the GS-VER project is in place, with the responsibilities properly identified and in place.

3.9 Data from External Sources

Based on the information in the registered GS-VER-PDD, the baseline emission factor (EF_y) was determined ex-ante according to version 07 of the approved methodology ACM0002 and it is fixed in the first crediting period. The value of the baseline emission factor (1.0548tCO_2e/MWh) used in the monitoring report is the same as the one in the registered GS-VER-PDD.

4. Calculation of Emission Reductions

Table 1 Collection of all parameters

Parameter	Reported Value (in version 01 of MR)	Verified Value (in version 02 of MR)
$E_{out,y}$	Not reported	138,594.366 MWh
$E_{in,y}$	Not reported	1,089.405 MWh
E_{backup}	Not reported	23.011 MWh
EG_y	137,496.20 MWh	137,481.950 MWh
EF_y	1.0548 tCO_2/MWh	1.0548 tCO_2/MWh
ERs	145,030 tCO_2e	145,015 tCO_2e

$EG_y = E_{out,y} – E_{in,y} – E_{backup}$

= 138,594.366MWh – 1,089.405MWh – 23.011MWh

= 137,481.950MWh

$ERs = BE_y – PE_y – L_y$

$= EG_y * EF_y$

= 137,481.950MWh * 1.0548tCO_2e/MWh

= 145,015tCO_2e

Where:

BE_y is the baseline emissions;

PE_y is the project emissions, PE_y equals zero as per registered PDD;

L_y is the leakage, L_y equals zero as per registered PDD;

EG_y is the net electricity supplied by the proposed project to the grid

The details of each parameter monitored are listed in the following table:

Table 2 Reported and verified value of $E_{out,y}$ (unit: MWh)

Period	Verified value (Against MRRs)	Verified value (Against sales receipts)	Verified $E_{out,y}$ for ERs calculation
07/01/2008~31/01/2008	497.000	2,110.416*	2,110.416
01/02/2008~29/02/2008	1,857.480		
01/03/2008~31/03/2008	2,494.590	21,551.740**	21,551.740
01/04/2008~30/04/2008	6,657.090		
01/05/2008~31/05/2008	6,329.490		
01/06/2008~30/06/2008	6,213.510		
01/07/2008~31/07/2008	6,541.299	6,490.020	6,490.020
01/08/2008~31/08/2008	7,675.381	7,622.940	7,622.940
01/09/2008~30/09/2008	9,471.359	9,405.750	9,405.750
01/10/2008~31/10/2008	15,346.828	15,248.470	15,248.470
01/11/2008~30/11/2008	14,255.661	14,165.010	14,165.010

01/12/2008~31/12/2008	18,449.210	18,324.610	18,324.610
Subtotal of 2008			94,918.956
01/01/2009~31/01/2009	11,319.912	11,237.900	11,237.900
01/02/2009~28/02/2009	9,586.140	9,524.960	9,524.960
01/03/2009~31/03/2009	12,131.010	12,051.880	12,051.880
01/04/2009~30/04/2009	10,932.810	10,860.670	10,860.670
Subtotal of 2009			43,675.41
Total (07/01/2008~30/04/2009)	**139,758.770**	**138,594.366**	**138,594.366**

***** The electricity supplied to NCPG by the project activity during the period from 01/01/2008 to 29/02/2008 was issued in one sales receipt on 03/03/2008

** The electricity supplied to NCPG by the project activity during the period from 01/03/2008 to 30/06/2008 was issued in one sales receipt on 04/07/2008

Table 3 Reported and verified value of $E_{in,y}$ (unit: MWh)

Period	Verified value (Against MRRs)	Verified value (Against sales receipts)	Verified $E_{in,y}$ for ERs calculation
07/01/2008~31/01/2008	104.000	623.185*	623.185
01/02/2008~29/02/2008	32.740		
01/03/2008~31/03/2008	39.350		
01/04/2008~30/04/2008	21.290	40.850	40.850
01/05/2008~31/05/2008	20.320	20.770	20.770
01/06/2008~30/06/2008	31.870	22.040	31.870
01/07/2008~31/07/2008	32.580	35.670	35.670
01/08/2008~31/08/2008	19.560	23.260	23.260
01/09/2008~30/09/2008	15.220	17.760	17.760
01/10/2008~31/10/2008	15.040	12.410	15.040
01/11/2008~30/11/2008	15.270	22.850	22.850
01/12/2008~31/12/2008	21.690	11.160	21.690
Subtotal of 2008			852.945
01/01/2009~31/01/2009	90.070	92.410	92.410
01/02/2009~28/02/2009	69.310	67.970	69.310
01/03/2009~31/03/2009	34.370	31.630	34.370
01/04/2009~30/04/2009	24.010	40.370	40.370
Subtotal of 2009			236.46
Total (07/01/2008~30/04/2009)	**586.690**	**1,062.335**	**1,089.405**

***** Sales receipt value for electricity purchased from the NCPG by the project activity during 17/12/2007 to 31/03/2008

Table 4 Reported and verified value of $E_{backup,y}$ (unit: MWh)

Period	Verified value (Against MRRs)	Verified value (Against sales receipts)	Verified $E_{backup,y}$ for ERs calculation
07/01/2008~31/01/2008	0	1.334	1.334
01/02/2008~29/02/2008	0	0	0

01/03/2008~31/03/2008	0	1.5	1.5
01/04/2008~30/04/2008	1.5	2.927	2.927
01/05/2008~31/05/2008	2.1	0	2.1
01/06/2008~30/06/2008	0	3	3
01/07/2008~31/07/2008	0	0	0
01/08/2008~31/08/2008	0	0	0
01/09/2008~30/09/2008	0	0	0
01/10/2008~31/10/2008	12	0	12
01/11/2008~30/11/2008	0	0	0
01/12/2008~31/12/2008	0	0	0
Subtotal of 2008			22.861
01/01/2009~31/01/2009	0	0	0
01/02/2009~28/02/2009	0	0	0
01/03/2009~31/03/2009	0.075	0	0.075
01/04/2009~30/04/2009	0.075	0	0.075
Subtotal of 2009			0.15
Total (07/01/2008~30/04/2009)	**15.75**	**8.761**	**23.011**

Period	**Project Emissions (tCO_2e)**	**Baseline Emissions (tCO_2e)**			**Emission Reductions (tCO_2e)**
		EG_y(MWh)	**EF_y (tCO_2e/MWh)**	**BE_y (tCO_2e)**	
Subtotal of 2008 (07/01/2008~31/12/2008)	0	94043.15	1.0548	99,196	99,196
Subtotal of 2009 (01/01/2009~30/04/2009)	0	43,438.8	1.0548	45,819	45,819

5. Recommendations for Changes in the Monitoring Plan

No recommendations for changes in the monitoring plan were made.

6. Overview of Results

Assessment Against the Provisions of Decision 17/CP.7:

Is the project documentation in accordance with the requirements of the registered PDD and relevant provision of decision 17/CP.7, EB decisions and guidance and the COP/MOP?

Yes. The results of the compliance assessment are recorded in the verification checklist which is used as an internal report only.

Have on-site inspections been performed that may comprise, inter alia, a review of performance records, interviews with project participants and local stakeholders, collection of measurements, observations of established practices and testing of the accuracy of monitoring equipment?

Yes. Niclo Deng Wei and Karen Tong Yumei visited the sites and undertook interviews, collected data, audited the implementation of procedures, checked calibration certificates and checked data, inter alia.

The results of the site visits are recorded in the verification checklist which is used as an internal report only.

The evidences have been checked and collected. The revised monitoring report is attached with this verification report.

Has data from additional sources been used? If yes, please detail the source and significance.

Yes. Baseline emission factor, 1.0548tCO_2e/MWh, was determined ex-ante using external sources at validation stage and fixed for the first crediting period.

Please review the monitoring results and verify that the monitoring methodologies for the estimation of reductions in anthropogenic emissions by sources have been applied correctly and their documentation is complete and transparent.

Yes. The monitoring methodology has been correctly applied and the monitoring report and supporting references are complete and transparent.

Have any recommendations for changes to the monitoring methodology for any future crediting period been issued to the project participant?

No.

Determine the reductions in anthropogenic emissions by sources of greenhouse gases that would not have occurred in the absence of the CDM project activity, based on the data and information using calculation procedures consistent with those contained in the registered project design document and the monitoring plan.

The data used in anthropogenic emission reduction calculation is consistent with those contained in the registered PDD and monitoring plan. The annual emission reduction was 116,982tCO_2e as per the estimation made in the registered PDD. The actual emission reduction has been verified as 145,015tCO_2e for the period from 07/01/2008 to 30/04/2009.

Identify and inform the project participants of any concerns related to the conformity of the actual project activity and its operation with the registered project design document. Project participants shall address the concerns and supply relevant additional information.

No such non conformity of the actual project activity and its operation with the registered project design document has been observed.

Post monitoring report on Gold Standard Registry website

Yes, the monitoring report is available at GS449 on GS registry website

https://gs1.apx.com/mymodule/ProjectDoc/EditProjectDoc.asp?id1=449

7. Verification Opinion and Certification Statement

SGS United Kingdom Ltd has been contracted by CAMCO International Ltd. to perform the verification of the emission reductions reported for the GS VER project Honiton Energy Bailingmiao Phase one Wind Farm Project (GS Project ID GS449) in the period 07/01/2008 to 30/04/2009.

The verification is based on the validated and registered project design document and the monitoring report for this project. Verification is performed in accordance with section I of Decision 3/CMP.1, and relevant decisions of the CDM EB, CoP/MoP and GS-TAC. The scope of this engagement covers the verification and certification of greenhouse gas emission reductions generated by the above project during the above mentioned period, as reported in Monitoring Report Version 02 dated 04/08/2009 of Honiton Energy Bailingmiao Phase one Wind Farm Project.

The management of CAMCO International Ltd. and Honiton Energy (Baotou) Co. Ltd. are responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project Monitoring Report Version 02 dated 04/08/2009. Calculation and determination of GHG emission reductions from the project is the responsibility of the management of the CAMCO International Ltd. The development and maintenance of records and reporting procedures are in accordance with the monitoring report.

It is our responsibility to express an independent GHG verification opinion on the GHG emissions and on the calculation of GHG emission reductions from the project for the period 07/01/2009 to 30/04/2009 based on the reported emission reductions in the Monitoring Report Version 02 dated 04/08/2009 for the same period.

Based on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these, SGS planned and performed our work to obtain the information and explanations that we considered necessary to provide sufficient evidence for us to give reasonable assurance that this reported amount of GHG emission reductions for the period is fairly stated.

SGS confirms that the project is implemented as described in the validated and registered project design documents. Based on the information we have seen and evaluated, we confirm the following:

Project Title:	Honiton Energy Bailingmiao Phase one Wind Farm Project
UNFCCC Reference Number:	GS project ID GS449
Registered PDD and Approved Used for Verification:	Version 03 dated 13/04/2009
Methodology Used for Verification:	ACM0002 Version 07 dated 30/11/2007
Applicable Period:	07/01/2008 to 30/04/2009
Total GHG Emission Reductions Verified:	**145,015tCO_2e**

Reporting period: From 07/01/2008 to 31/12/2008

Verified emission in the above reporting period:

Project emissions	**0**	t CO_2 equivalents
Baseline emissions	**99,196**	t CO_2 equivalents
Emission reductions	**99,196**	t CO_2 equivalents

Reporting period: From 01/01/2009 to 30/04/2009

Verified emission in the above reporting period:

Project emissions	**0**	t CO_2 equivalents
Baseline emissions	**45,819**	t CO_2 equivalents
Emission reductions	**45,819**	t CO_2 equivalents

Signed on behalf of the Verification Body by Authorized Signatory

Signature: 

Name: Siddharth Yadav

Date: 13th August 2009

8. Document References

/1/ GS-VER-PDD
/2/ Monitoring Report Version 01, Version 02
/3/ Validation Report
/4/ Validation and Verification Manual
/5/ ACM0002 Version 07
/6/ Emission Reduction Spreadsheet
/7/ Configuration of the project installation and metering equipments
/8/ Power Purchase Agreement, dated 21/04/2008
/9/ Grid Connect Agreement, dated 12/12/2007
/10/ Calibration Certificates
M1 main meter: SN, 93729773; Certificate No. 2007-L093; Issued on 25/06/2007
M1 backup meter: SN, 9419669; Certificate No. 2007-L193; Issued on 20/09/2007
M2 main meter: SN, 94196691; Certificate No. 2007-L191; Issued on 20/09/2007
M2 backup meter: SN, 94196682; Certificate No. 2007-L192; Issued on 20/09/2007
/11/ Accreditation of Inner Mongolia Electric Power Research Institute issued on 02/01/2004 (Certificate No. MengFaJi[2004]15021)
/12/ Calibration Certificates of meter on 10kV line
SN: 312371, Certificate No. 08-04284, issued on 20/04/2008
/13/ Accreditation of Damao power company issued on 31/12/2007 (Certificate No. BaoFaJi[2007]054)
/14/ Daily Reading Records from Jan. 2008 to Apr. 2009
/15/ Monthly Reading Records from Jan. 2008 to Apr. 2009
/16/ Monthly internal auditing report from Jan. 2008 to Apr. 2009
/17/ Sales receipts for electricity supplied to the NCPG by the proposed project from Jan. 2008 to Apr. 2009
/18/ Sales receipts for electricity purchased from the NCPG from Jan. 2008 to Apr. 2009
/19/ Sales receipts for electricity purchased from the grid through 10kV line from Jan. 2008 to Apr. 2009
/20/ Explanation on the Error in the Metering of Power Generated issued by local grid company, dated 03/04/2008
/21/ Staff list and salary payment sheet, dated Feb. 2009
/22/ GS-VER Training records, dated Jan. 2008
/23/ Wind turbine induction training records, dated Mar. 2008
/24/ Health and safety training records, by Suzlon, dated Jun~Jul. 2008
/25/ 220kV substation training records, by Suzlon, dated Nov. 2007
/26/ Soil protection confirmation issued by soil protection office of Damao County, dated 13/06/2008
/27/ Site Environmental Management Review Report issued by Mott MacDonald, dated 03/06/2009
/28/ Waste water and noise verification report issued by Lvjie environment company, dated May. 2009
/29/ Accreditation of Lvjie environment company, dated 19/02/2008 (Certificate No. 20080505871)
/30/ Grassland compensation contracts between Honiton Energy and local residents, dated Sep. 2006 to Jan. 2009
/31/ Grassland Law of P.R. China
/32/ Grassland administration regulation in Inner Mongolia
/33/ Contract between Honiton Energy and local Mongolian School, dated Sep. 2008
/34/ Offer letter and employment contracts between Honiton Energy and English teachers, dated Feb. 2009
/35/ Salary receipts of English teachers, issued by local Mongolian School, dated Nov. 2008 to Apr. 2009
/36/ Student enrolment list, dated Aug. 2008 to Feb. 2009
/37/ GS-VER manual version 4.0 dated 06/01/2008
/38/ Staff qualification
/39/ DL/T448-2000 Technical administrative code of electric energy metering
/40/ GB8978-1996 Integrated wastewater discharge standard

/41/ GB12348-90 Standard of noise at boundary of industrial enterprises

Annex 1. Findings Overview

No findings were raised for this verification.

Annex 2. Team member Statement of Competence

Statement of Competence

Name:Niclo Deng Wei SGS Affiliate:SGS China

Status

- Product Co-ordinator ☐
- Operations Co-ordinator ☐
- Technical Reviewer ☐
- Expert ☐

	Validation	Verification
- Local Assessor	☒	☒
- Lead Assessor	☒	☒
- Assessor / Trainee Lead Assessor	☒	☒

Scopes of Expertise

1. Energy Industries (renewable / non-renewable) ☒
2. Energy Distribution ☐
3. Energy Demand ☐
4. Manufacturing ☐
5. Chemical Industry ☒
6. Construction ☐
7. Transport ☐
8. Mining/Mineral Production ☐
9. Metal Production ☐
10. Fugitive Emissions from Fuels (solid,oil and gas) ☐
11. Fugitive Emissions from Production and ☐

Consumption of Halocarbons and Sulphur Hexafluoride

12. Solvent Use ☐
13. Waste Handling and Disposal ☐
14. Afforestation and Reforestation ☐
15. Agriculture ☐

Approved Member of Staff by Joe Sun/ Siddharth Yadav Date: 16/04/2009

Statement of Competence

Name:Simon Zhao Xinguang SGS Affiliate:SGS China

Status

- Product Co-ordinator ☐
- Operations Co-ordinator ☐
- Technical Reviewer ☐
- Expert ☐

	Validation	Verification
- Local Assessor	☒	☒
- Lead Assessor	☒	☒
- Assessor / Trainee Lead Assessor	☒	☒

Scopes of Expertise

1. Energy Industries (renewable / non-renewable) ☒
2. Energy Distribution ☐
3. Energy Demand ☒
4. Manufacturing ☐
5. Chemical Industry ☐
6. Construction ☐
7. Transport ☐
8. Mining/Mineral Production ☐
9. Metal Production ☐
10. Fugitive Emissions from Fuels (solid,oil and gas) ☐
11. Fugitive Emissions from Production and ☒

Consumption of Halocarbons and Sulphur Hexafluoride

12. Solvent Use ☐
13. Waste Handling and Disposal ☐
14. Afforestation and Reforestation ☐
15. Agriculture ☐

Approved Member of Staff by Siddharth Yadav Date: 28/10/2008

Statement of Competence

Name:Karen Tong Yumei SGS Affiliate:SGS China

Status

- Product Co-ordinator ☐
- Operations Co-ordinator ☐
- Technical Reviewer ☐
- Expert ☐

	Validation	Verification
- Local Assessor	☒	☒
- Lead Assessor	☐	☐
- Assessor / Trainee Lead Assessor	☐	☐

Scopes of Expertise

1. Energy Industries (renewable / non-renewable) ☐
2. Energy Distribution ☐
3. Energy Demand ☐
4. Manufacturing ☐
5. Chemical Industry ☐
6. Construction ☐
7. Transport ☐
8. Mining/Mineral Production ☐
9. Metal Production ☐
10. Fugitive Emissions from Fuels (solid,oil and gas) ☐
11. Fugitive Emissions from Production and Consumption of Halocarbons and Sulphur Hexafluoride ☐
12. Solvent Use ☐
13. Waste Handling and Disposal ☐
14. Afforestation and Reforestation ☐
15. Agriculture ☐

Approved Member of Staff by Joe Sun/ Siddharth Yadav Date: 07/04/2009

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