



VCS VERIFICATION REPORT

BEIJING GUANTING WIND POWER
PROJECT PHASE II AND PHASE II
ADDITION

(VCS PROJECT ID: 830)



Document Prepared By

Shenzhen CTI International Certification Co., Ltd

Project Title	Beijing Guanting Wind Power Project Phase II and Phase II addition
Version	02.0

Report ID	CTI/NB-2021-0421
Report Title	Beijing Guanting Wind Power Project Phase II and Phase II addition
Client	Climate Bridge (Shanghai) Ltd.
Pages	34
Date of Issue	20/05/2021
Prepared By	Shenzhen CTI International Certification Co., Ltd
Contact	Address: F8-A CTI Building, No.4 LiuXianSan Road, Xin'an Street, Bao'an District, 518101, Shen Zhen, China Tel: +86 10 65580012 Email: linshunrong@cti-cert.com Website: http://www.cti-cert.org
Approved By	Zhou Lu 
Work Carried Out By	Team Leader: Wang Guolian Technical Reviewer: Lin Shunrong

Summary:

Shenzhen CTI International Certification Co., Ltd (CTI) has performed the verification of the emission reductions reported for the project activity “Beijing Guanting Wind Power Project Phase II and Phase II addition” (VCS Project ID: 830) for the monitoring period 28/07/2012 to 30/06/2018, to review and determine the monitored reductions in GHG emissions that have occurred as a result of the project activity. These emission reductions are claimed as Verified Carbon Units (VCU) under the Verified Carbon Standard (VCS) version 4.

The verification was performed on the basis of VCS Programme Guide version 4.0 and VCS Standard version 4.1 for the VCS projects, as well as criteria given to provide for consistent project operations, monitoring and reporting. The verification was conducted by means of document review, follow-up interviews and site inspections, and the resolution of outstanding issues. The verification team identified 1 CL, no CAR or FAR in this monitoring period.

In CTI's opinion, the GHG emission reductions reported for the project in the monitoring report (version 2.0

dated 19/05/2021) are fairly stated. The GHG emission reductions of the period from 28/07/2012 to 30/06/2018 were calculated correctly on the basis of approved methodology ACM0002 “Consolidated methodology for grid-connected electricity generation from renewable sources” (version 12.1.0).

CTI does not assume any responsibility towards the issuance and utilization of the VCUs hereby verified and certified. Request for issuance of VCUs shall be made by the project proponent to an approved VCS Program Registry based on the requirements set out under the most recent version of the VCS Program Guidelines clause on VCS Registration.

The verification of reported emission reductions is based on the information made available to CTI and the engagement conditions detailed in this report. CTI cannot be held liable by any party for decisions made or not made based on this report.

Hence, CTI is able to certify that the emission reductions from the “Beijing Guanting Wind Power Project Phase II and Phase II addition” during the period amount to 930,149 tCO₂e.

CONTENTS

contents.....	4
1 Introduction.....	6
1.1 Objective.....	6
1.2 Scope and Criteria.....	6
1.3 Level of Assurance.....	7
1.4 Summary Description of the Project.....	7
2 Verification Process.....	8
2.1 Method and Criteria.....	8
2.2 Document Review.....	8
2.3 Interviews.....	9
2.4 Site Inspections.....	10
2.5 Resolution of Findings.....	11
2.6 Eligibility for Validation Activities.....	11
3 Validation Findings.....	12
3.1 Participation under Other GHG Programs.....	12
3.2 Methodology Deviations.....	12
3.3 Project Description Deviations.....	12
3.4 Grouped Project.....	14
4 Verification Findings.....	15
4.1 Project Implementation Status.....	15
4.2 Safeguards.....	22
4.3 AFOLU-Specific Safeguards.....	23
4.4 Accuracy of GHG Emission Reduction and Removal Calculations.....	23
4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals.....	25
4.6 Non-Permanence Risk Analysis.....	26
5 Verification conclusion.....	26
APPENDIX A: Abbreviations.....	29
APPENDIX B: references.....	30

APPENDIX C: Corrective Action Requests, clarification requests and Forward Action Requests.....	33
--	-----------

1 INTRODUCTION

Climate Bridge (Shanghai) Ltd. has commissioned Shenzhen CTI International Certification Co., Ltd (CTI) to carry out the verification and certification of emission reductions reported for the “Beijing Guanting Wind Power Project Phase II and Phase II addition” (the project) for the period 28/07/2012 to 30/06/2018. This report contains the findings from the verification and includes a verification statement for the verified carbon units.

1.1 Objective

Verification is the periodic independent review and ex-post determination by an accredited verification body of the monitored reductions in GHG emissions that have occurred as a result of the registered VCS project activity during a defined verification period.

A verification statement is the written assurance by a verification body that, during a specific period in time, a project activity achieved the emission reductions as verified.

The objective of this verification was to verify and provide a verification statement of emission reductions reported for the “Beijing Guanting Wind Power Project Phase II and Phase II addition” for the period 28/07/2012 to 30/06/2018.

1.2 Scope and Criteria

The scope of the verification is:

- To verify that actual monitoring systems and procedures are in compliance with the monitoring systems and procedures described in the monitoring plan;
- To evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emissions reduction data is free from material misstatement;
- To verify that reported GHG emissions data is sufficiently supported by evidence.

The criteria of the verification are:

- VCS Program Guide (version 4.0) /25/
- VCS Standard (version 4.1) /24/ and other relevant requirements defined by Verra;
- The approved methodology ACM0002 (version 12.1.0) /28/ applied by the project.

The verification shall ensure that reported emission reductions are complete and accurate in order to be verified.

1.3 Level of Assurance

The verification report expresses a conclusion with a reasonable level of assurance about whether the reported GHG emissions reduction data is free from material misstatement. CTI applied a materiality threshold of 5% with respect to omission or misstatements concerning reported quantities as per VCS standard.

1.4 Summary Description of the Project

Sectoral Scope and Project Type

According to the VCS Program Guide (version 4.0) /25/, the project is applicable under the following activity categories:

- Sectoral Scope: 1. Energy (Renewable/non-renewable).
- Project type: Wind-power generation project.

According to Annex A of the Kyoto Protocol, the project is applicable under the Sectoral Scope 1: Energy Industries (renewable/ non-renewable sources).

Project Background

Project title:	Beijing Guanting Wind Power Project Phase II and Phase II addition
Project proponent:	Beijing Jingneng Clean Energy Co., Ltd. (China)
Project location:	Northwest side of Beijing, the north bank of Guanting Reservoir which sited in south-east side of Langshan wind valley in Huailai County, Hebei Province, P. R. China
VCS Project ID:	830
Applied methodology:	ACM0002 version 12.1.0
VCS project crediting period:	23/12/2009 to 22/12/2019 (the first VCS crediting period)
VCU verification period:	28/07/2012 to 30/06/2018

2 VERIFICATION PROCESS

2.1 Method and Criteria

The verification was performed through means of the following three phases in accordance with the requirement of the registered VCS PD, the applied methodology, and the VCS Standard (version 4.1) and other relevant VCS requirements:

- A desk review of the monitoring report and all support documents;
- Follow-up interviews with project stakeholders and site inspection;
- The resolution of outstanding issues and the issuance of the verification report and statement.

The following sections outline each step in more detail.

The verification of the emission reductions has assessed all factors and issues that constitute the basis for emission reductions from the project. These include:

- The emission reduction calculations and the relevant data records;
- The calibration and maintenance records for the monitoring instruments;

The management systems to support the project operation and monitoring

2.2 Document Review

Based on the requirements of competency, experience and qualified sectoral scopes, CTI appointed a verification team in accordance with CTI's internal procedures.

Function	Name	Technical competence	Task Performance*
Team Leader	Wang Guolian	1.2	☒ DR ☒ SV ☒ RP ☐ TR
Technical Reviewer	Lin Shunrong	1.2	☒ DR ☐ SV ☐ RP ☒ TR

*DR=Document review; SV=Site visit; RP=Reporting; TR=Technical review

In addition to the VER/VCU monitoring report /1/, registered CDM PDD (version 05.4 dated 13/01/2011) /10/, GAP VCS PD version 01 dated 25/10/2011 /11/ and, emission reduction calculation spreadsheet /2/, the following documents also were assessed as a part of the verification audit:

- Validation Report of registered CDM PDD /16/;
- VCS Validation Report of GAP PD /17/;
- VCS Monitoring Report /22/;
- VCS Verification Report /23/;

- Baseline and monitoring methodology ACM0002 applied by the project /28/;
- Relevant decisions, clarifications and guidance from the Verra /24/-/28/; and
- Other information and references relevant to the project activity.

During the desk review, CTI has applied standard auditing techniques to assess the quality of information provided. The following activities were performed:

- A review of the data and information presented to verify their completeness;
- A review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures; and
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

2.3 Interviews

On 12/05/2021, CTI visited Beijing Jingneng Clean Energy Co., Ltd. performed on-site assessment. The key personnel of the project were interviewed or assisted the verification team /29/. Main topics of the interview cover implementation of the project construction, applicability of selected methodology, implementation of project monitoring, emission reduction calculation, etc.

The key personnel interviewed /29/ are summarized in the table below:

Interviewed personnel	Role	Organization	Subject
Ms. Geng Yan	Director	Beijing Jingneng Clean Energy Co., Ltd.	Operation of the project activity; Implementation of the monitor plan of the project activity; Data collection and data achievement; Calibration of meters and equipment maintenance;
Mr. Liu Xulong	Plant Director	the Proposed wind farm of Beijing Jingneng Clean Energy Co., Ltd.	
Ms. Meng Xiuli	Internal Control Manager	the Proposed wind farm of Beijing Jingneng Clean Energy Co., Ltd.	
Mr. Wu Qingyi	Local resident	Guanzhuang Village	The impact of the project activity; The complaint by local stakeholders; The stakeholder consultation during the operation of the project activity.
Liu Lixin	Staff	Local Environment Protection Bureau	
Mr. Lin Keming	Project Manager	Climate Bridge (Shanghai) Ltd.	Data collection and ER calculation.

2.4 Site Inspections

The verification team performed the on-site verification (Northwest side of Beijing, the north bank of Guanting Reservoir which sited in south-east side of Langshan wind valley in Huailai County, Hebei Province, P. R. China) on 12/05/2021. The interviewed personnel and objective are listed in above table. During the on-site assessment, CTI has applied standard auditing techniques to assess the quality of information provided. The following aspects of the project activity have been verified:

- An assessment of the implementation and operation of the registered project activity is as per the registered CDM PDD of the project activity;
- A review of information flows for generating, aggregating and reporting the monitoring parameters; and
- Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the registered VCS PD;
- A cross-check between information provided in the monitoring report and data from other sources such as plant logbooks and electricity sale receipts;
- A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the monitoring plan in the registered VCS PD and the selected methodology;
- A review of calculations and assumptions made in determining the GHG data and emission reductions; and
- An identification that quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

The data presented in the monitoring report were assessed by review of the detailed project documentation and production records, as well as by interviews with personnel from the project developer Beijing Jingneng Clean Energy Co., Ltd. and observation of collection of measurements, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. This has enabled the verification team to assess the accuracy and completeness of reported monitoring results, to verify the correct application of the approved monitoring methodology and the determination of the emission reductions.

In addition all parameters required by the monitoring methodology ACM0002 (version 12.1.0), and the management system were assessed during the site visit.

2.5 Resolution of Findings

A corrective action request (CAR) shall be raised, where:

- i. Non-conformities with the monitoring plan or methodology are found in monitoring and reporting, or if the evidence provided to prove conformity is insufficient;
- ii. Mistakes have been made in applying assumptions, data or calculations of emission reductions which will impair the estimate of emission reductions;
- iii. Issues identified in a FAR during validation to be verified during verification have not been resolved by the project proponents.

A clarification request (CL) shall be raised if information is insufficient or not clear enough to determine whether the applicable VCS requirements have been met.

The verification team identified 1 CL and no CAR in this monitoring period.

A forward action request (FAR) is issued for actions if the monitoring and reporting require attention and/or adjustment for the next monitoring period.

CTI confirmed that there was no FAR identified in previous verification /19/, and no FAR was raised during this verification.

2.6 Eligibility for Validation Activities

The CDM PDD of the project activity was validated by TÜV Rheinland Japan Ltd. on 24/01/2011 /16/. The GAP VCS PDD was validated by China Quality Certification Centre (CQC) on 02/05/2012/17/. The initial VCS verification was carried out by China Quality Certification Centre (CQC) on 02/05/2012 against Voluntary Carbon Standard version 3.1/3.2. Two periodic verifications were carried out by China Quality Certification Centre (CQC) respectively on 18/05/2012 and 16/10/2012 under CDM scheme. The proposed monitoring period 28/07/2012 to 30/06/2018 is 2nd VCS verification, CTI just undertook verification activities for the project according to the VCS Program Guide. This section is thus not applicable.

3 VALIDATION FINDINGS

The CDM PDD of the project activity was validated by TÜV Rheinland Japan Ltd. on 24/01/2011 /16/. . The GAP VCS PDD was validated by China Quality Certification Centre (CQC) on 02/05/2012 against Voluntary Carbon Standard version 3.1/3.2 /17/.

3.1 Participation under Other GHG Programs

The project was validated by TÜV Rheinland Japan Ltd. on 24/01/2011 under CDM scheme for registration /16/. CTI only performed verification activities on the proposed monitoring period for the project according to the VCS Program Guide.

3.2 Methodology Deviations

The validation process /16/ has assessed all factors and issues that constitute the basis for emission reductions from the project according to the applicable CDM methodology ACM0002 (version 12.1.0) /28/. As plant specific fuel consumption and electricity generation data are not publicly available in China, the Guidance caused by DNV's request for deviation of Chinese project activities for the baseline methodology AM0005 has been applied for calculating the build margin (BM) emission factor of this project activity. Moreover, the verification team confirmed that the result of BM and OM are sourced from China DNA and complied with the registered CDM PDD, the deviation has no impact on conservativeness of the quantification of GHG emission reductions or removals.

3.3 Project Description Deviations

The project was registered under CDM scheme on 28/02/2011 (UNFCCC ID. 4413). By checking UNFCCC website (<https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1296190714.03/view?cp=1>), the verification team confirmed that for the project activity, the first crediting period is from 28/02/2011 to 27/02/2018. As per relevant CDM standard, the crediting period of the project could be renewed twice. A renewal of crediting period has been approved, the second crediting period is from 28/02/2018 to 27/02/2025.

The project was registered under VCS scheme (VCS version 3.1) in 2012. In the GAP VCS PD, it was mentioned that the VCS crediting period is from 23/12/2009 to 27/02/2011. In the monitoring report, it was mentioned that the project commission date is 23/12/2009 and the VCS crediting period was from 23/12/2009 to 22/12/2019. As per VCS version 3.1 under which the project was registered, the project crediting period is allowable for 10 years and could be renewed twice. Therefore, it is reasonable that the first VCS crediting period of project was determined as 23/12/2009 to 22/12/2019. This deviation has no impact on the applicability of the methodology, additionality or the

appropriateness of the baseline scenario and meet all appropriate rules and requirements of VCS standard.

The crediting period in the monitoring report (version 1.0 dated 10/05/2021) is not the same as mentioned in the registered GAP VCS PDD. CL 01 was raised requiring PP to clarify the reasons. In the monitoring report (version 2.0 dated 19/05/2021), the reasons has been supplemented and accepted by the verification team. Therefore, CL 01 was closed.

As per the registered CDM PDD, Electricity supplied to No. 2 main transformer by the Project in year y ($EG_{PJtotrans,y}$) is monitored by 10 electricity meters (M9/M9' – M13/M13') installed at line 1– line 5 of the project and was calculated as:

$$\begin{aligned} EG_{PhaseI\ totrans,y} &= EG_{Line1\ totrans,y} + EG_{Line2\ totrans,y} + EG_{Line3\ totrans,y} \\ EG_{PhaseII\ totrans,y} &= EG_{Line4\ totrans,y} + EG_{Line5\ totrans,y} \\ EG_{PJ\ totrans,y} &= EG_{PhaseI\ totrans,y} + EG_{PhaseII\ totrans,y} \end{aligned}$$

Where:

$EG_{Line1\ totrans,y}$ is the electricity supply by line 1 of the Guanting Phase II measured by M9/M9'

$EG_{Line2\ totrans,y}$ is the electricity supply by line 2 of the Guanting Phase II measured by M10/M10'

$EG_{Line3\ totrans,y}$ is the electricity supply by line 3 of the Guanting Phase II measured by M11/M11'

$EG_{Line4\ totrans,y}$ is the electricity supply by line 4 of the Phase II addition measured by M12/M12'

$EG_{Line5\ totrans,y}$ is the electricity supply by line 5 of the Phase II addition measured by M13/M13'

Through site visit and interview with project owner, the verification team found that the calculation method to transact electricity generated by the project activity was adjusted by the project owner and the readings of the 10 electricity meters (M9/M9' – M13/M13') were not recorded during this monitoring period, Therefore, PP used an alternative method to monitor Electricity supplied to No. 2 main transformer by the Project in year y ($EG_{PJtotrans,y}$) during this monitoring period.

By checking the line diagram and site inspection, the verification team confirmed that electricity generated by the project and Yanqing project is supplied to the grid through No. 2 main transformer. Electricity meters M7/M8 (accuracy 0.2S) have been installed at the outlet of No. 2 main transformer to measure the total electricity supplied by the project and Yanqing project ($EG_{PJ+Yqtotrans,y}$). Meters M14/M14' (accuracy 0.5S) have been installed at the transmission line (line 6) of the Yanqing project to measure the electricity supplied to No. 2 main transformer by Yanqing project ($EG_{Yanqingtotrans,y}$). Electricity supplied to No. 2 main transformer by the Project in year y ($EG_{PJtotrans,y}$) is calculated as the difference of $EG_{PJ+Yqtotrans,y}$ and $EG_{Yanqingtotrans,y}$, which was:

$$EG_{PJtotrans,y} = EG_{PJ+Yqtotrans,y} - EG_{Yanqingtotrans,y}$$

Through document review and site inspection, the verification team was able to confirm that:

- the accuracy of the meters meets the requirement of the registered monitoring plan;
- the calculation of $EG_{PJtotrans,y}$ is reasonable.

Therefore, the verification team confirmed that this deviation will not lower the accuracy and conservativeness of the monitoring system and the project remains in compliance with VCS Program rules and this deviation has no impact on the applicability of the methodology, additionality or the appropriateness of the baseline scenario and meet all appropriate rules and requirements of VCS standard.

Since the calculation method to transact electricity generated by the project activity was adjusted by the project owner and the 10 electricity meters (M9/M9' – M13/M13') were not recorded during this monitoring period, the parameters $EG_{Line1totrans,y}$, $EG_{Line2totrans,y}$, $EG_{Line3totrans,y}$, $EG_{Line4totrans,y}$, $EG_{Line5totrans,y}$ are not monitored in this monitoring period. The monitoring of remaining data and parameters during this monitoring period is in compliance with the registered monitoring plan in the registered CDM PDD (version 05.4 dated 13/01/2011). Details refer to section 4.1 of this report.

3.4 Grouped Project

The project was not a grouped project; hence this clause is not applicable.

4 VERIFICATION FINDINGS

This section summarizes the findings from the verification of the emission reductions reported for the “Beijing Guanting Wind Power Project Phase II and Phase II addition” for the period 28/07/2012 to 30/06/2018.

4.1 Project Implementation Status

Project Implementation in accordance with the registered project design document

The project is a grid-connected wind power plant, which is located in Northwest side of Beijing, the north bank of Guanting Reservoir which sited in south-east side of Langshan wind valley in Huailai County, Hebei Province, P. R. China. The project activity is consisting of two parts, which were:

- Beijing Guanting Wind Power Project Phase II (hereafter referred to as “the Guanting Phase II”) which installed 33 sets of 1.5MW wind turbine-generator with a total installed capacity 49.5MW.
- Beijing Guanting Wind Power Project Phase II addition (hereafter referred to as “the Phase II addition”) which installed 24 sets of 1.5MW wind turbine-generator with a total installed capacity of 36MW.

The average annual power delivered to the grid by the project is expected to be 161.119 GWh. The actual implementation of the project during this verification period was verified in terms of name plate capacities of each wind turbine and monitoring equipment. The details of the wind turbines with respect to installation and capacity have been verified to be consistent with description indicated in the registered CDM PDD and VCS GAP PD. The operation start date of both two parts of the project activity was 23/12/2009 verified by site visit interview, checking validation report and verification report of previous monitoring period /16//19/. The electricity generated by the project activity was supplied to the North China Power Grid (NCPG), which can be confirmed by the Power Purchase Agreement (PPA) signed between Beijing Jingneng Clean Energy Co., Ltd. and State Grid Beijing Electric Power Company /3/.

The project start date was identified as 23/12/2009 when the wind turbine started to operate and began generating GHG emission reductions. The 1st VCS crediting period of the project is from 23/12/2009 to 22/12/2019. The selected monitoring period is from 28/07/2012 to 30/06/2018, which is within the 1st VCS crediting period.

All the monitoring system in operation period is consistent with the description in the registered CDM PDD. The control system at the power plant is automated and assures continuous operation, including monitoring on malfunction of equipment. By checking the Operation Log /6/, CTI was able to confirm that no serious malfunction happened and the plant was under a normal operation as expected in this monitoring period.

On-site training for the related procedures including monitoring, recording and reporting was verified to be in place /5/ and their implementation was confirmed by interview with the key operators /29/ and observing the operation.

As part of the site visit, CTI confirms that the project implementation is in accordance with the project description contained in the registered CDM PDD (version 05.4 dated 13/01/2011) the registered VCS GAP PD (version 01 dated 25/10/2011). The verification team confirmed through visual inspection and document review that all physical features of the proposed project activity including data collection systems and storage systems have been implemented in accordance with the registered CDM PDD (version 05.4 dated 13/01/2011).

Compliance of monitoring plan with monitoring methodology

The verification team is able to confirm that the monitoring plan in the registered CDM PDD (version 05.4 dated 13/01/2011) is in accordance with the approved methodology applied by the project activity, i.e. ACM0002 (version 12.1.0).

During this monitoring period, a deviation in relation with the monitoring of the electricity supplied to the No. 2 main transformer by line 1 to line 5 of the Project was identified during verification. Through document review and site inspection, the verification team was able to confirm that this deviation will not lower the accuracy and conservativeness of the monitoring system and the project remains in compliance with VCS Program rules and this deviation has no impact on the applicability of the methodology, additionality or the appropriateness of the baseline scenario and meet all appropriate rules and requirements of VCS standard. Details refer to section 3.3 of this report.

The monitoring of remaining data and parameters during this monitoring period is in compliance with the monitoring plan in the registered CDM PDD (version 05.4 dated 13/01/2011).

Therefore, the verification team is able to confirm that the monitoring plan is in accordance with the approved methodology applied by the project activity, i.e. ACM0002 (version 12.1.0).

Compliance of monitoring with the monitoring plan

During this monitoring period, a deviation in relation with the monitoring of the electricity supplied to the No. 2 main transformer by line 1 to line 5 of the Project ($EG_{PJtotrans,y}$) was identified during verification. The parameters $EG_{Line1totrans,y}$, $EG_{Line2totrans,y}$, $EG_{Line3totrans,y}$, $EG_{Line4totrans,y}$, $EG_{Line5totrans,y}$ in the monitoring plan of the registered CDM PDD (version 05.4 dated 13/01/2011) are not monitored in this monitoring period. An alternative measures were used to monitor and calculate $EG_{PJtotrans,y}$ which will not lower the accuracy and conservativeness of the monitoring system and the project remains in compliance with VCS Program rules and this deviation has no impact on the applicability of the methodology, additionality or the appropriateness of the baseline scenario and meet all appropriate rules and requirements of VCS standard. Details refer to section 3.3 of this report.

The remaining data and parameters in the monitoring plan of the registered CDM PDD (version 05.4 dated 13/01/2011) has been monitored and reported appropriately.

In conclusion, the parameters required to be monitored by the monitoring plan of the registered CDM PDD (version 05.4 dated 13/01/2011) considering the deviation of this monitoring period and the management system were assessed during the site visit. The monitoring report lists each parameter required either by the monitoring plan or based on the deviation and the information flow (i.e. from data generation, aggregation, recording, calculation and reporting) for these parameters is provided. The information flow for the each parameter is further verified in the following sections.

Parameters monitored

By site interview and checking the validation and verification reports, CTI confirmed that the Project shares the transformer and gateway meters with Yanqing Project and Beijing 48 MW Guanting Wind Power Project (hereafter referred to as Guanting Project). Electricity generated by this project is sent to the Beijing Power Grid, which is part of the North China Power Grid (NCPG). Based on the monitoring plan in registered CDM PDD (version 05.4 dated 13/01/2011) and consider the deviation of this monitoring period, there is 6 monitoring parameters of the project:

Electricity supplied to No. 2 main transformer by Yanqing project in year y ($EG_{Yanqingtotrans,y}$)

The parameter was measured continuously by main meter M14 and backup meter M14' installed at the transmission line (line 6) of the Yanqing project. The meter reading was recorded monthly by PP form Monthly Reading Records (MRRs) /7/, which will be archived electronically. The meter reading of M14 will be crosschecked by that of M14' /7/. The two meters will be calibrated annually by qualified calibration institute. From August 2012 to November 2012, the meter readings will be recorded by the project owner at 24:00 hr of 27th of a month. For the rest months in this monitoring period, the meter readings will be recorded by the project owner at 24:00 hr of last day of the each month.

Electricity supplied by Guanting project in year y ($EG_{Guantingtotrans,y}$)

The parameter was measured continuously by main meter M5 and backup meter M6 installed at Outlet of No. 1 main transformer. The meter reading was recorded monthly by PP form Monthly Reading Records (MRRs) /7/, which will be archived electronically. The meter reading of M5 will be crosschecked by that of M6 /7/. The two meters will be calibrated annually by qualified calibration institute. From August 2012 to November 2012, the meter readings will be recorded by the project owner at 24:00 hr of 27th of a month. For the rest months in this monitoring period, the meter readings will be recorded by the project owner at 24:00 hr of last day of the each month.

Electricity supplied by the Project and the Yanqing Project in year y ($EG_{PJ+Yqtotrans,y}$)

The parameter was measured continuously by main meter M7 and backup meter M8 installed at Outlet of No. 2 main transformer. The meter reading was recorded monthly by PP form Monthly Reading Records (MRRs) /7/, which will be archived electronically. The meter reading of M7 will be crosschecked by that of M8 /7/. The two meters will be calibrated annually by qualified calibration institute. From August 2012 to November 2012, the meter readings will be recorded by the project owner at 24:00 hr of 27th of a month. For the rest months in this monitoring period, the meter readings will be recorded by the project owner at 24:00 hr of last day of the each month.

Electricity supplied to No. 2 main transformer by the Project in year y ($EG_{PJtotrans,y}$)

In monitoring plan of the registered CDM PDD, Electricity supplied to No. 2 main transformer by the Project in year y was monitored through 5 parameters, including $EG_{Line1totrans,y}$, $EG_{Line2totrans,y}$, $EG_{Line3totrans,y}$, $EG_{Line4totrans,y}$, $EG_{Line5totrans,y}$. During this monitoring period, Electricity supplied to No. 2 main transformer by the Project in year y is calculated through $EG_{PJ+Yqtotrans,y}$ and $EG_{Yanqingtotrans,y}$ as: $EG_{PJtotrans,y} = EG_{PJ+Yqtotrans,y} - EG_{Yanqingtotrans,y}$. The monitoring of these two parameters have been described and justified in the above context. The deviation will not lower the accuracy and conservativeness of monitoring system. Details refer to section 3.3 of this report.

Electricity supplied to the grid by the Project and other projects in year y ($EG_{totaltogrid,y}$)

The parameter was measured continuously by 2 electricity meters (1 main meter M1 and 1 backup meter M3) installed at the 110kV substation of Beijing Guanting wind farm. The meter reading was recorded monthly and archived electronically. From 28/07/2012 to 27/11/2012, the cut-off time was 24:00 hr of 27th of a month. For the rest months in this monitoring period, the cut-off time was 24:00 hr of last day of the each month. At the cut-off time, the staff from project developer and the grid company read the electricity meter together. The project developer record electricity meter's readings and form Monthly Reading Records (MRRs) /7/. The staff from power grid company record electricity meter's readings and then transcribes the data into Electricity Sales Receipts /8/. $EG_{totaltogrid,y}$ was sourced from Meter Reading Records (MRRs) /7/ issued by the project developer, and Electricity Sales Receipts /8/ issued by power grid company covering monitoring period.

Electricity consumed by the Project and other projects from the grid in year y ($EG_{gridtotal,y}$)

The parameter was measured continuously by 2 electricity meters (1 main meter M2 and 1 backup meter M4) installed the 110kV substation of Beijing Guanting wind farm. The meter reading was recorded monthly and archived electronically. From 28/07/2012 to 27/11/2012, the cut-off time was 24:00 hr of 27th of a month. For the rest months in this monitoring period, the cut-off time was 24:00 hr of last day of the each month. At the cut-off time, the staff from project developer and the grid company read the electricity meter together. The project developer record electricity meter's readings and form Monthly Reading Records (MRRs) /7/. The staff from power grid company record electricity meter's readings and then transcribes the data into Electricity Sales Receipts /9/. $EG_{totaltogrid,y}$ was sourced from Meter Reading Records (MRRs) /7/ issued by the project developer, and Electricity Sales Receipts /9/ issued by power grid company covering monitoring period. The electricity consumed by the Project and other projects from the grid is deemed as the electricity consumed by the Project from the grid when calculating emission reductions, which is conservative.

As described above, the meters have been installed in accordance with the monitoring plan in the registered CDM PDD (version 05.4 dated 13/01/2011). CTI has on-site checked the location of the meters against the diagram of power connection system and found them to be consistent.

Data in the monthly reading records were used to the report, through a cross check with Electricity Sales Receipts. The conservative values were used for the monitoring report and ERs calculation

spreadsheet, which has been verified by the verification team. Supporting references and data required to determine the net electricity supplied to the grid by the project is found to be complete and transparent.

Monitoring equipment and calibration

The meters have been calibrated periodically as per the relevant industrial standard by the qualified third party to ensure the monitoring equipments' accuracy and in good conditions. The relevant information of meters' calibration is listed as below.

Meter	Serial Number	Accuracy Class	Calibration Frequency	Calibration Date	Validity
M1 (main meter) M3 (backup meter)	2001124467 2001124470	0.2S	Annually	17/01/2012	16/01/2013
				17/01/2013	16/01/2014
				17/01/2014	16/01/2015
				17/01/2015	16/01/2016
				17/01/2016	16/01/2017
				17/01/2017	16/01/2018
				17/01/2018	16/01/2019
M2 (main meter) M4 (backup meter)	2001124469 2001124468	0.2S	Annually	17/01/2012	16/01/2013
				17/01/2013	16/01/2014
				17/01/2014	16/01/2015
				17/01/2015	16/01/2016
				17/01/2016	16/01/2017
				17/01/2017	16/01/2018
				17/01/2018	16/01/2019
M5 (main meter) M6 (backup meter)	2005665309 2005665308	0.2S	Annually	17/01/2012	16/01/2013
				17/01/2013	16/01/2014
				17/01/2014	16/01/2015
				17/01/2015	16/01/2016
				17/01/2016	16/01/2017
				17/01/2017	16/01/2018
				17/01/2018	16/01/2019
M7 (main meter) M8 (backup meter)	2005665307 2005665310	0.2S	Annually	17/01/2012	16/01/2013
				17/01/2013	16/01/2014
				17/01/2014	16/01/2015
				17/01/2015	16/01/2016
				17/01/2016	16/01/2017

				17/01/2017	16/01/2018
				17/01/2018	16/01/2019
M14 (main meter)	96716065	0.5S	Annually	17/01/2012	16/01/2013
				17/01/2013	16/01/2014
				17/01/2014	16/01/2015
M14' (backup meter)	96716082			17/01/2015	16/01/2016
				17/01/2016	16/01/2017
				17/01/2017	16/01/2018
				17/01/2018	16/01/2019

The meters were calibrated by Beijing Electric Power Company Grid Metrology Center. Calibration records and accreditation certificates /12//13/ have been verified by the verification team. The accuracy of all meters are comply with that in the monitoring plan of the registered CDM PDD (version 05.4 dated 13/01/2011). By checking the industrial metering configuration standard “Technical Administrative Code of Electric Energy Metering (DL/T 448-2016)” /15/, CTI can confirm that the accuracy level of all meters meet the requirement stipulated in this standard. In conclusion, the verification team can confirm that the accuracy of the meters is in line with monitoring plan of the registered CDM PDD (version 05.4 dated 13/01/2011) and relevant industry standard.

In the monitoring plan of the registered CDM PDD (version 05.4 dated 13/01/2011), it stated that the meters will be calibrated and checked annually for accuracy. By checking the calibration reports, the verification team found the calibration frequency of these meters is annual, which is in line with the calibrating standard “Technical Administrative Code of Electric Energy Metering (DL/T 448-2016)” /15/. Hence, the verification team can confirm that the meters’ calibration frequency is in line with monitoring plan of the registered CDM PDD (version 05.4 dated 13/01/2011) and relevant industry standard, and the calibrations of meters are verified to be valid for the whole reporting period.

Data management and control

Beijing Jingneng Clean Energy Co., Ltd. is responsible for operation and routine maintenance of power plant under the project activity. The quality assurance and quality control procedures have been addressed in the VER project management and monitoring manual /4/, including the organization structure with the responsibilities, personnel competencies, monitoring procedures and monitoring management. By interview with the staff /29/ and check records /4/-/6/ during on-site visit, it can be confirmed that the monitoring management system is implemented following the project management and monitoring manual.

All monitoring devices have been calibrated and maintained periodically to ensure the accuracy of measurement. Calibration records of instruments used in measurements were made available during the verification visit and found to be valid for the entire period of the verification. Competence and training records of in-plant personnel engaged in measurement of plant parameters were presented during verification and found to be in order.

By checking UNFCCC website (<https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1296190714.03/view?cp=1>), it is confirmed by CTI that the project has been registered as CDM project activity on 28/02/2011 with reference No. 4413 and there are no CDM issuance during this monitoring period. Furthermore, CTI checked public information from the REC Mechanism database of China, Chinese Emission Trading System, Gold Standard Registry and interviewed with project owner during site visit, it is confirmed that except CDM and VCS scheme, the project has not been participated or been rejected under any other GHG programs since validation or previous verification.

Therefore, the verification team confirmed that the project only applies CERs and VCU under CDM and VCS, and no rejection from CDM and VCS occurs, there are no other forms of environmental credits applied or issued for the project activity, the emission reduction resulted from the project during this monitoring period would only apply for VCUs.

By checking the registered CDM PDD (version 05.4 dated 13/01/2011) and interviewing with stakeholders during site visit, the verification team confirmed that the project would contribute to sustainable development in as below:

- Reducing greenhouse gas emissions compared to a business-as-usual scenario;
- Displacing the power generation of fossil fuel power plants, reducing CO₂, SO_x and NO_x emissions significantly, thus mitigating the air pollution and its adverse impacts on human health;
- Providing clean and renewable energy source, and help to improve energy supply security;
- Providing job opportunities for local residents;
- Helping to promote economic development of local area by increasing tourism revenue;
- Promoting application and diffusion of wind technology in China.

The technical parameters have been verified with the nameplates /14/ as below:

Item		Unit	Value
Wind turbine	Mode	-	Goldwind 82/1500
	Rotor diameter	m	82
	Rated Power	MW	1.5
	Rated wind speed	m/s	10.3
	Hub height	m	65
	Quantity	-	57
Generator	Type	-	Permanent-magnet synchronous generator
	Rated Power	MW	1.5
	Rated Voltage	V	690
	Quantity	-	57

The verification team confirmed that there is no proposed or actual change to monitoring plan of the registered CDM PDD (version 05.4 dated 13/01/2011) during this monitoring period. All required equipments and procedures are available and implemented in an appropriate manner. All necessary monitoring instruments are installed. All required instruments including standby and operating procedures for the same have been implemented in an appropriate manner. The project is completely operational and the same has been confirmed on-site. Neither mistakes nor malfunction on main meters have been observed during this monitoring period.

4.2 Safeguards

4.2.1 No Net Harm

By checking the EIA summary and conclusion provided in the registered CDM PDD, it is confirmed that wind power is green power and the impact caused by wind power on the surrounding ecosystem and residents, wastewater, solid waste and atmosphere etc. is very little, there would be no net harm caused due to the project activity. Also, the EIA of the project are approved by the government.

Also, no potential environment or social economic matter was found during the site visit. The project is renewable energy project and thus no net harm observed in air or water quality on-site.

4.2.2 Local Stakeholder Consultation

As per the registered CDM PDD, in August 2009, the local stakeholder's consultation was done through distributing a questionnaire, which was designed to be easily filled in. 41 copies of questionnaire were distributed, and 41 pieces of reply were received. 41 participants filled in the questionnaires included local residents, builders and members of the local authorities. The opinions expressed by the stakeholders were recorded and are available on request.

The survey showed that the proposed project receives strong support from the local community. They all believe the proposed project will promote local economic development and agree with the project development and construction.

By checking the filled questionnaires from local stakeholders, it is confirmed by the verification team that communications with local stakeholders was being carried out every two years by the project owner in this monitoring period. There are no negative comments received for the project.

Via checking questionnaires from local stakeholders and interviewing with staff from local environmental protection bureau and local residents during the site visit, it is confirmed by the verification team that during the implementation stage of this monitoring period, local authority has conducted spot checks on the implementation of the project periodically as per the request from the local governments' regulations. It is confirmed by the verification team that there were no negative comments and issues from the local stakeholders during this monitoring period and the project passed all the periodic spot checks by local government.

All such conclusion has been verified through site visit and check registered CDM PDD.

4.3 AFOLU-Specific Safeguards

For non-AFOLU projects, this section is not required.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

CTI confirms that appropriate methods and formulae for calculating baseline emissions, project emissions and leakage have been followed, and the assumptions, emission factors and default values that are applied in the calculation have been justified.

According to the applied methodology, the emission reductions are determined as the difference between the baseline emissions, project emissions and leakage:

$$ER_y = BE_y - PE_y$$

Baseline emissions

Baseline reductions are determined as multiplying Quantity of net electricity generation supplied by the project plant/unit to the grid in year y ($EG_{facility,y}$) by the validated ex-ante fixed grid emission factor ($EF_{grid,CM,y}$).

$$BE_y = EG_{facility,y} \times EF_{grid,CM,y}$$

Grid emission factor ($EF_{grid,CM,y}$)

EF is the grid emission factor of the which has been verified ex-ante in the validation stage in the registered CDM PDD (version 05.4 dated 13/01/2011) as 0.950225 tCO₂e/MWh for the crediting period.

Quantity of net electricity generation supplied by the project plant/unit in year y ($EG_{facility,y}$)

$EG_{facility,y}$ is calculated by following formula:

$$\begin{aligned} EG_{facility,y} &= EG_{PJtogrid,y} - EG_{gridtoPJ,y} \\ &= EG_{PJtogrid,y} - EG_{gridtotal,y} \\ &= EG_{PJ+Yqtogrid,y} \times \frac{EG_{PJtotrans,y}}{EG_{PJ+Yqtotrans,y}} - EG_{gridtotal,y} \\ &= EG_{totaltogrid,y} \times \frac{EG_{PJ+Yqtotrans,y}}{EG_{PJ+Yqtotrans,y} + EG_{Guantingtotrans,y}} \times \frac{EG_{PJtotrans,y}}{EG_{PJ+Yqtotrans,y}} - EG_{gridtotal,y} \end{aligned}$$

Data in the Monthly Reading Records (MRRs) are used to calculate $EG_{facility,y}$ as follows:

Years	EG _{totaltogrid,y} (MWh)	EG _{gridtotal,y} (MWh)	EG _{PJ+YqtoTrans,y} (MWh)	EG _{GuantingtoTrans,y} (MWh)	EG _{YanqingtoTrans,y} (MWh)
28-07-2012 to 31-12-2012	135,757.600	362.064	97,087.450	44,245.985	15,225.688
01-01-2013 to 31-12-2013	330,739.200	2,472.800	239,145.962	105,652.437	33,325.716
01-01-2014 to 31-12-2014	278,951.200	2,490.300	202,246.714	87,522.947	28,392.547
01-01-2015 to 31-12-2015	246,708.000	2,868.800	176,108.025	79,375.657	30,592.780
01-01-2016 to 31-12-2016	246,998.400	2,789.600	174,385.012	75,895.988	24,299.703
01-01-2017 to 31-12-2017	269,702.400	2,604.800	189,503.000	83,361.200	24,043.600
01-01-2018 to 30-06-2018	159,139.200	1,487.200	112,621.600	48,302.800	13,055.000
Total	1,667,996.000	15,075.564	1,191,097.763	524,357.014	168,935.034

Based on the values of monitored parameters in the above table, the emission reductions are calculated as follows:

Years	EG _{facility,y} (MWh)	EF _{grid,CM,y} (tCO ₂ /MWh)	BE _y (tCO ₂)
28-07-2012 to 31-12-2012	78,312.52	0.950225	74,414
01-01-2013 to 31-12-2013	194,935.99		185,233
01-01-2014 to 31-12-2014	164,811.14		156,607
01-01-2015 to 31-12-2015	137,632.88		130,782
01-01-2016 to 31-12-2016	145,308.08		138,075
01-01-2017 to 31-12-2017	160,909.33		152,900
01-01-2018 to 30-06-2018	96,964.83		92,138
Total	978,874.77	/	930,149

Hence, the corresponding baseline emission reductions are calculated as:

$$BE_y = EG_{\text{facility},y} \times EF_{\text{grid,CM},y} = 978,874.77 \times 0.950225 = 930,149 \text{ tCO}_2\text{e}$$

Project emissions

As statement in the registered CDM PDD, for the wind power activities, the project emissions from the project is zero. Hence, PE_y during the monitoring period from Beijing Guanting Wind Power Project Phase II and Phase II addition is zero.

Leakages

Leakage does not need to be accounted for this project as per the registered CDM PDD.

Emission reductions

The emission reductions for this monitoring period was calculated as:

Monitoring period	GHG emission reductions or removals (tCO ₂ e)
28-07-2012 to 31-12-2012	74,414
01-01-2013 to 31-12-2013	185,233
01-01-2014 to 31-12-2014	156,607
01-01-2015 to 31-12-2015	130,782
01-01-2016 to 31-12-2016	138,075
01-01-2017 to 31-12-2017	152,900
01-01-2018 to 30-06-2018	92,138
Total ERs claimed (in 2164 days)	930,149

Comparison of actual emission reductions or net anthropogenic GHG removals by sinks with estimates in the registered CDM PDD

The emission reductions claimed are 930,149 tCO₂e in this monitoring period (i.e. 2164 days). Compared with yearly expected emission reductions 153,099 tCO₂e (calculated as $153,099 \times 157d / 366d + 153,099 \times 5yrs + 153,099 \times 181d / 365d$) in the registered CDM PDD, the reported emission reductions in this monitoring period are 2.54% more than the expected, which is considered to be in the reasonable variation range. Furthermore, by checking the registered CDM PDD, it is confirmed that even if the electricity is increased by 10%, the IRR will not reach the benchmark. Therefore, it is confirmed the variation of electricity generation in this monitoring period will not impact the additionality of this project activity.

CTI is able to confirm that the actual power supply and also emission reductions reported in this monitoring period are reasonable and appropriate. CTI verified the input data for calculating emission reductions and the calculating process, and confirmed the result were complete and transparent.

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

All necessary documentations are collected, referenced and aggregated, which is easily accessible in hard-copy or electronic format. Measurements are performed by calibrated equipment, and the key

data can also be cross-checked via other sources, such as records, receipts and inventory data. No assumptions are used that have any material influence on reported emission reductions.

CTI concludes that during this monitoring period, the evidences for determination of emission reductions are sufficient and reasonable, and the calculation of emission reductions is reliable.

4.6 Non-Permanence Risk Analysis

The project is not AFOLU project, and thus non-permanence risk analysis is not applicable for the project.

5 VERIFICATION CONCLUSION

Shenzhen CTI International Certification Co., Ltd (CTI) has performed the verification of the emission reductions that have been reported for the project activity “Beijing Guanting Wind Power Project Phase II and Phase II addition” in China (VCS Project ID: 830) for the period 28/07/2012 to 30/06/2018.

The verification is based on the baseline and monitoring methodology ACM0002 (version 12.1.0), registered CDM PDD (version 05.4 dated 13/01/2011) and the registered VCS GAP PD (version 01 dated 25/10/2011). The verification consisted of the following three phases: i) desk review of the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification and certification report.

The project proponents are responsible for the collection, calculation and determination of the GHG data in accordance with the monitoring plan and the reporting of GHG emission reductions on the basis set out within the project monitoring report.

Our verification approach was based on the requirements as defined under the applicable VCS Version 4 and relevant UNFCCC requirements. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. The verification can confirm that:

- the project is implemented and operated as per the registered CDM PDD and the registered VCS GAP PD;
- the monitoring plan in registered Registered CDM PDD is as per the applied methodology;
- the monitoring complies with the monitoring plan in the registered CDM PDD;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS Version 4 and CDM requirements;
- the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;
- the monitoring system is in place and generates GHG emission reductions data;

- the GHG emission reductions are calculated without material misstatements.

It is CTI's responsibility to provide an independent verification statement on the reported GHG emission reductions for the project. Based on an understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these, CTI planned and performed our work to obtain the information and explanations that we considered necessary to provide reasonable assurance that reported GHG emission reductions are fairly stated.

CTI does not assume any responsibility towards the issuance and utilization of the VCU's hereby verified and certified. Request for issuance of VCU's shall be made by the project proponent to an approved VCS Program Registry based on the requirements set out under the most recent version of the VCS Program Guidelines clause on VCS Registration.

The verification of reported emission reductions is based on the information made available to CTI and the engagement conditions detailed in this report. CTI cannot be held liable by any party for decisions made or not made based on this report.

In CTI's opinion the GHG emissions reductions of the "Beijing Guanting Wind Power Project Phase II and Phase II addition" for the period 28/07/2012 to 30/06/2018 are fairly stated in the monitoring report (version 2.0 dated 19/05/2021). The GHG emission reductions were calculated correctly on the basis of the approved methodology ACM0002 (version 12.1.0) and the monitoring plan contained in the registered CDM PDD (version 05.4 dated 13/01/2011).

CTI can confirm that the GHG emission reductions are calculated without material misstatements. Based on the evidence and information that are considered necessary to guarantee that GHG emission reductions are appropriately calculated, CTI confirms the following statement:

Verification period: From 28/07/2012 to 30/06/2018

Verified GHG emission reductions and removals in the above verification period:

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
28-07-2012 to 31-12-2012	74,414	0	0	74,414
01-01-2013 to 31-12-2013	185,233	0	0	185,233
01-01-2014 to 31-12-2014	156,607	0	0	156,607
01-01-2015 to 31-12-2015	130,782	0	0	130,782
01-01-2016 to 31-12-2016	138,075	0	0	138,075
01-01-2017 to 31-12-2017	152,900	0	0	152,900
01-01-2018 to 30-06-2018	92,138	0	0	92,138

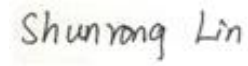
Total	930,149	0	0	930,149
-------	---------	---	---	---------



Ms. Wang Guolian

Team Leader

20/05/2021



Ms. Lin Shunrong

Technical Reviewe

20/05/2021

APPENDIX A: ABBREVIATIONS

CAR	Corrective Action Request
CER	Certified Emission Reduction(s)
CL	Clarification request
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
CTI	Shenzhen CTI International Certification Co., Ltd
DOE	Designated Operational Entity
EF	Emission Factor
ER	Emission Reduction
ETN	Electricity Transaction Note
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
MP	MONITORING REPORT
MR	Monitoring Report
NCPG	North China Power Grid
PD	Project Description
PP	Project Proponent
VCS	Verified Carbon Standard
VCU	Verified Carbon Unit

APPENDIX B: REFERENCES

Documentation used to verify the information provided by the project proponents

- /1/ Climate Bridge (Shanghai) Ltd.: VER/VCU Monitoring Report for Beijing Guanting Wind Power Project Phase II and Phase II addition, version 1.0 dated 10/05/2021, version 2.0 dated 19/05/2021
- /2/ Climate Bridge (Shanghai) Ltd.: Emission reduction calculation spreadsheet for Beijing Guanting Wind Power Project Phase II and Phase II addition, version 1.0 dated 10/05/2021
- /3/ Beijing Jingneng Clean Energy Co., Ltd. And State Grid Beijing Electric Power Company : Power Purchase Agreement for Beijing Guanting Wind Power Project Phase II and Phase II addition.
- /4/ Beijing Jingneng Clean Energy Co., Ltd.: VER monitoring manual and management procedure.
- /5/ Beijing Jingneng Clean Energy Co., Ltd.: Records of training for on-site staff.
- /6/ Beijing Jingneng Clean Energy Co., Ltd.: Operation log sheets, from 28/07/2012 to 30/06/2018.
- /7/ Beijing Jingneng Clean Energy Co., Ltd.: Monthly reading records (MRRs) of Beijing Guanting Wind Power Project Phase II and Phase II addition from 28/07/2012 to 30/06/2018.
- /8/ Beijing Power Grid Company: Electricity sales receipts of electricity supplied to the grid by the Project and other projects from 28/07/2012 to 30/06/2018.
- /9/ Beijing Power Grid Company: Electricity Sales Receipts of electricity consumed by the Project and other projects from the grid, from 28/07/2012 to 30/06/2018.
- /10/ Climate Bridge (Shanghai) Ltd.: the registered CDM PDD, version 05.4 dated 13/01/2011.
- /11/ GAP VCS PD version 01 dated 25/10/2011.
- /12/ Beijing Municipal Bureau of Quality and Technical Supervision: Accreditation certificate of Beijing Electric Power Company Grid Metrology Center from 17/02/2009 to 16/02/2014 and from 17/02/2014 to 16/02/2019.
- /13/ Beijing Electric Power Company Grid Metrology Center: Calibration certificates for meters covering this monitoring period.
- /14/ Beijing Jingneng Clean Energy Co., Ltd.: nameplate of the equipment
- /15/ State Economic and Trade Commission: Technical administrative code of electric energy metering (DL/T 448-2016).

- /16/ TÜV Rheinland Japan Ltd.: the Validation Report, version 04.1 dated 24/01/2011
- /17/ China Quality Certification Centre (CQC): the Validation Report of registered VCS GAP PD, version 3.0 dated 02/05/2012
- /18/ Climate Bridge (Shanghai) Ltd.: CER Monitoring Reports for Beijing Guanting Wind Power Project Phase II and Phase II addition of previous monitoring periods
- /19/ China Quality Certification Centre (CQC): Verification Reports for Beijing Guanting Wind Power Project Phase II and Phase II addition of previous monitoring periods
- /20/ Business License of Beijing Jingneng Clean Energy Co., Ltd
- /21/ Questionnaires to collect comments about project implementation from local stakeholders in this monitoring period
- /22/ Climate Bridge (Shanghai) Ltd.: VCS Monitoring Report (for monitoring period from 23/12/2009 - 27/02/2011), version 02 dated 07/03/2012
- /23/ China Quality Certification Centre (CQC): VCS Verification Report (for monitoring period from 23/12/2009 - 27/02/2011) version 03 dated 02/05/2012

Methodologies, tools and other guidance

- /24/ Verified Carbon Standard: VCS Standard, version 4.1..
- /25/ Verified Carbon Standard: VCS Program Guide, version 4.0.
- /26/ Verified Carbon Standard: VCS Sectoral Scopes
<http://v-c-s.org/node/448>
- /27/ Verified Carbon Standard: Registration and Issuance Process, version 4.0.
- /28/ UNFCCC EB: Approved methodology, ACM0002, version 12.1.0

Persons interviewed

- /29/ Ms. Geng Yan, Director, Beijing Jingneng Clean Energy Co., Ltd.

Mr. Liu Xulong, Plant Director, The proposed wind power plant of Beijing Jingneng Clean Energy Co., Ltd.

Ms. Meng Xiuli, Internal Control Manager, The proposed wind power plant of Beijing Jingneng Clean Energy Co., Ltd.

Mr. Wu Qingyi, local resident, Guanzhuang Village

Mr. Liu Lixin, Vice Director, Local Environment Protection Bureau

Mr. Lin Keming, Project Manager, Climate Bridge (Shanghai) Ltd.

APPENDIX C: CORRECTIVE ACTION REQUESTS, CLARIFICATION REQUESTS AND FORWARD ACTION REQUESTS

Table 1: Corrective Action Requests

CAR ID	Corrective Action Request	Response by Project Proponent	Verification Team Assessment
NA	NA	NA	NA

Table 2: Clarification Requests

CL ID	Clarification Request	Response by Project Proponent	Verification Team Assessment
-------	-----------------------	-------------------------------	------------------------------

01	The crediting period in the monitoring report (version 1.0 dated 10/05/2021) is not the same as mentioned in the registered GAP VCS PDD. Please clarify.	The project is registered under VCS Version 3.1 and completed validation before 19/03/2020. thus, it remains eligible to apply the crediting period requirements under VCS version 3.1 which shall be a maximum of ten years and may be renewed at most twice, so the first renewable crediting period of the project should be updated from 23-12-2009 ~ 27-02-2011 to 23-12-2009 ~ 22-12-2019. Deviation in this regard has been proposed in section 2.3.2 of the monitoring report.	By checking VCS version 3.1 under which the project was registered, the project crediting period is allowable for 10 years and could be renewed twice. Therefore, the verification team confirmed that the first VCS crediting period of project determined as 23/12/2009 to 22/12/2019 is reasonable. This deviation has no impact on the applicability of the methodology, additionality or the appropriateness of the baseline scenario and meet all appropriate rules and requirements of VCS standard. The same has been clarified in the monitoring report (version 2.0 dated 19/05/2021) and confirmed by the verification team to be correct. Therefore, the CL is closed.
----	--	--	--

Table 3: Forward Action Requests

FAR ID	Forward Action Request	Response by Project Proponent	Verification Team Assessment
NA	NA	NA	NA