



VCS VERIFICATION REPORT

HEBEI HAIXING 49.5MW WIND FARM
PROJECT

(VCS PROJECT ID: 414)



Document Prepared By

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Project Title	Hebei Haixing 49.5MW Wind Farm Project
Version	02.0
Report ID	CTINB-2021-1110~1116

Report Title	Hebei Haixing 49.5MW Wind Farm Project
Client	Demeter Venture UK Limited
Pages	31
Date of Issue	08/02/2022
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Summary:

Shenzhen CTI International Certification Co., Ltd (CTI) has performed the verification of the emission reductions reported for the project activity "Hebei Haixing 49.5MW Wind Farm Project" (VCS Project ID: 414) for the monitoring period 14/04/2018 to 25/11/2021, 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 4.1.

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 no CAR, CL or FAR in this monitoring period.

In CTI's opinion, the GHG emission reductions reported for the project in the monitoring report (version 1.2 dated 07/02/2022) are fairly stated. The GHG emission reductions of the period from 14/04/2018 to 25/11/2021 were calculated correctly on the basis of approved methodology ACM0002 "Consolidated methodology for grid-connected electricity generation from renewable sources" (version 20.0).

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 “Hebei Haixing 49.5MW Wind Farm Project” during the period amount to 372,460 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.....	9
2.1 Method and Criteria.....	9
2.2 Document Review.....	9
2.3 Interviews.....	10
2.4 Site Inspections.....	11
2.5 Resolution of Findings.....	12
2.6 Eligibility for Validation Activities.....	12
3 Validation Findings.....	13
3.1 Participation under Other GHG Programs.....	13
3.2 Methodology Deviations.....	13
3.3 Project Description Deviations.....	13
3.4 Grouped Project.....	14
4 Verification Findings.....	15
4.1 Project Implementation Status.....	15
4.2 Safeguards.....	20
4.3 AFOLU-Specific Safeguards.....	20
4.4 Accuracy of GHG Emission Reduction and Removal Calculations.....	21
4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals.....	25
4.6 Non-Permanence Risk Analysis.....	25
5 Verification conclusion.....	25
APPENDIX A: Abbreviations.....	28

APPENDIX B: references.....	29
APPENDIX C: Corrective Action Requests, clarification requests and Forward Action Requests.....	32

1 INTRODUCTION

Demeter Venture UK Limited has commissioned Shenzhen CTI International Certification Co., Ltd (CTI) to carry out the verification and certification of emission reductions reported for the “Hebei Haixing 49.5MW Wind Farm Project” (the project) for the period 14/04/2018 to 25/11/2021. 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 “Hebei Haixing 49.5MW Wind Farm Project” for the period 14/04/2018 to 25/11/2021.

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) /28/
- VCS Standard (version 4.1) /27/ and other relevant requirements defined by Verra;
- The approved methodology ACM0002 (version 20.0) /30/ 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

Description of the project activity

The project is a grid-connected wind power plant, which is located in the seashore of Haixing County, Cangzhou City, Hebei Province in North China. The project activity installed 33 sets of 1.5 MW wind turbine-generator with a total installed capacity 49.5 MW.

The average annual power delivered to the grid by the project is expected to be 114,999 MWh. The actual implementation of the project during this monitoring 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 renewed VCS PD. The commissioning start date of the first wind turbine was 14/04/2008, while fully commissioning of the project activity was on 25/04/2008. The electricity generated by the project activity was supplied to the North China Power Grid (NCPG). The estimated annual emission reductions were 96,650tCO₂e during the second crediting period.

Sectoral Scope and Project Type

According to the VCS Program Guide (version 4.0) /28/, 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:	Hebei Haixing 49.5MW Wind Farm Project
Project proponent:	Hebei Construction Investment Zhongxing Wind Energy Co., Ltd (China)
Project location:	the seashore of Haixing County, Cangzhou City, Hebei Province in North China
VCS Project ID:	414

Applied methodology: ACM0002 version 20.0

VCS project crediting period: 14/04/2018 to 13/04/2028 (the second VCS crediting period)

VCU verification period: 14/04/2018 to 25/11/2021

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 renewed 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/, renewed VCS PD (version 02 dated 11/02/2020) /10/, renewed CDM PDD (version 08 dated 22/08/2016) /24/, registered CDM PDD (version 06 dated 16/02/2009) /11/ and emission reduction calculation spreadsheet /2/, the following documents also were assessed as a part of the verification audit:

- Validation Report of renewed VCS PD /16/;
- Validation Report of registered CDM PDD /17/;
- Validation Opinion of renewed CDM PDD /26/;
- VCS Monitoring Report of previous monitoring period /22/;
- VCS Verification Report of previous monitoring period /23/;

- Baseline and monitoring methodology ACM0002 applied by the project /30/;
- Relevant decisions, clarifications and guidance from the Verra /27/-/29/; 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 09/12/2021, CTI visited Hebei Construction Investment Zhongxing Wind Energy Co., Ltd performed on-site assessment. The key personnel of the project were interviewed or assisted the verification team /31/. 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 /31/ are summarized in the table below:

Interviewed personnel	Role	Organization	Subject
Mr. Chen Xin	Director of the plant	Hebei Construction Investment Zhongxing Wind 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. Fan Kailiang	Duty Director	Hebei Construction Investment Zhongxing Wind Energy Co., Ltd	
Mr. Gao Feng	O&M Staff	Hebei Construction Investment Zhongxing Wind Energy Co., Ltd	
Mr. Zhang Pengfei	Local resident	Local Village	The impact of the project activity; The complaint by local stakeholders; The stakeholder consultation during the operation of the project activity.
Mr. Jia Shenggang		Local Village	
Ms. Wu Zhixia		Local Village	
Mr. Nie Yingliang	Staff	Local Environment Protection Bureau	
Ms. Zhang Ling	Project Manager	Hebei Construction Investment New Energy Co., Ltd	Data collection and ER calculation.

2.4 Site Inspections

The verification team performed the on-site verification (the seashore of Haixing County, Cangzhou City, Hebei Province in North China) on 09/12/2021. 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 renewed VCS PD 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 renewed 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 renewed 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 Hebei Construction Investment Zhongxing Wind 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 20.0), 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 no CL or 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 /23/, and no FAR was raised during this verification.

2.6 Eligibility for Validation Activities

The renewed VCS PD of the project activity was validated by LGAI Technological Center, S.A. (Applus+ Certification) on 15/02/2020 /16/, the registered CDM PDD was validated by TÜV SÜD Industrie Service GmbH on 24/02/2009 /17/, the renewed CDM PDD was validated by Shenzhen CTI International Certification Co.,Ltd (CTI) on 23/08/2016 /26/. The previous VCS verification was carried out by LGAI Technological Center, S.A. (Applus+ Certification) on 18/03/2020 /23/. 5 periodic verifications were carried out by Bureau Veritas Certification Holding SAS on 08/09/2009, 15/10/2010, 30/08/2011, 16/08/2012 and 04/02/2013 respectively under CDM scheme. The proposed VCS monitoring period 14/04/2018 to 25/11/2021 is 3rd 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

3.1 Participation under Other GHG Programs

The registered CDM PDD of the project activity was validated by TÜV SÜD Industrie Service GmbH on 24/02/2009 /17/. The renewed CDM PDD of the project activity was validated by Shenzhen CTI International Certification Co.,Ltd (CTI) on 23/08/2016 /26/. The renewed VCS PD of the project activity was validated by LGAI Technological Center, S.A. (Applus+ Certification) on 15/02/2020 /16/ under VCS scheme. CTI only performed verification activities on the proposed monitoring period for the project under VCS scheme according to VCS Program Guide.

3.2 Methodology Deviations

The validation process /16/ /17/ /26/ has assessed all factors and issues that constitute the basis for emission reductions from the project according to the applicable CDM methodology ACM0002 (version 20.0) /30/. Therefore, it is confirmed that there was no deviation for methodology.

3.3 Project Description Deviations

The project was registered under CDM scheme on 06/03/2009 (UNFCCC ID. 2007). By checking UNFCCC website (<https://cdm.unfccc.int/Projects/DB/TUEV-SUED1218101320.07/view?cp=1>), the verification team confirmed that for the project activity, the first CDM crediting period is from 06/03/2009 to 05/03/2016. As per relevant CDM standard, the crediting period of the project could be renewed twice.

The project was registered under VCS scheme in 2011. In the Verification Report of previous monitoring period, it was mentioned that the project started operation since 14/04/2008. By checking UNFCCC website, it was confirmed that the project activity was registered as CDM project activity on 06/03/2009. Therefore, the VCS crediting period was determined as 14/04/2008 to 05/03/2009.

As per VCS scheme under which the project was registered, the project crediting period is allowable for 10 years and could be renewed twice. Considering 3*7 years CDM crediting period, it is reasonable that the total VCS crediting period was determined from 14/04/2008 to 05/03/2030, of which the first VCS crediting period is from 14/04/2008 to 13/04/2018 and the second VCS crediting period is from 14/04/2018 to 13/04/2028. The same has been described in the renewed VCS PD and justified in the Validation Report (version 01.1 dated 15/02/2020).

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.

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 “Hebei Haixing 49.5MW Wind Farm Project” for the period 14/04/2018 to 25/11/2021.

4.1 Project Implementation Status

Project Implementation in accordance with the approved project design document

The project is a grid-connected wind power plant, which is located in the seashore of Haixing County, Cangzhou City, Hebei Province in North China. The project activity installed 33 sets of 1.5 MW wind turbine-generator with a total installed capacity 49.5 MW.

The average annual power delivered to the grid by the project is expected to be 114,999 MWh. The actual implementation of the project during this monitoring 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 renewed VCS PD. The commissioning start date of the first wind turbine was 14/04/2008, while fully commissioning of the project activity was on 25/04/2008, which was verified by site visit interview, checking verification report of previous monitoring period /23/. 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 Hebei Construction Investment Zhongxing Wind Energy Co., Ltd and State Grid Hebei Electric Power Company /3/.

The project start date was identified as 14/04/2008 when the first wind turbine started to operate and began generating GHG emission reductions. The 2nd VCS crediting period of the project is from 14/04/2018 to 13/04/2028. The selected monitoring period is from 14/04/2018 to 25/11/2021, which is within the 2nd VCS crediting period.

All the monitoring system in operation period is consistent with the renewed VCS PD. 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 /31/ and observing the operation.

Except the deviation mentioned above, CTI confirmed during site visit that the project implementation is in accordance with renewed VCS PD (version 02 dated 11/02/2020). And 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 renewed VCS PD (version 02 dated 11/02/2020).

Compliance of monitoring plan with monitoring methodology

The verification team is able to confirm that the monitoring plan in the renewed VCS PD (version 02 dated 11/02/2020) is in accordance with the approved methodology applied by the project activity, i.e. ACM0002 (version 20.0). 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 20.0).

Compliance of monitoring with the monitoring plan

The monitoring has been carried out in accordance with the monitoring plan contained in the renewed VCS PD (version 02 dated 11/02/2020). CTI confirms that all parameters stated in the monitoring plan are monitored and reported appropriately. All parameters required to be monitored by the monitoring plan as per the monitoring methodology ACM0002 (Version 20.0) and the management system were assessed during the site visit. The monitoring report lists each parameter required by the monitoring plan 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

According to the monitoring plan contained in the renewed VCS PD (version 02 dated 11/02/2020), there are 1 monitoring parameter of the project:

Electricity supplied to the grid by the project ($EG_{s,y}$)

By site interview and checking the monitoring plan contained in the renewed VCS PD (version 02 dated 11/02/2020) and verification reports, CTI confirmed $EG_{s,y}$ is continuously measured by main meter M1 and backup meter M2. Both meters were bi-directional and installed on the 110kV transmission line. The meter reading was recorded monthly and archived electronically. When main meter M1 is not working well, readings from backup meter M2 will serve as reference for calculation of emission reductions. By checking operation log /6/, it is confirmed that main meter M1 is working well during this monitoring period. In this monitoring period, the cut-off time was 24:00 hr of 25th of each month. At the cut-off time, the staff from project developer and the grid company read the electricity meters together. The project developer record electricity meter readings and form Monthly Reading Records (MRRs) /7/. The staff from power grid company record electricity meter readings and then transcribes the data into Electricity Receipts /8/. $EG_{s,y}$ was sourced from Meter Reading Records (MRRs) /7/ issued by the project developer, and Electricity Receipts /8/ issued by power grid company covering monitoring period.

Electricity consumed from the grid by the project ($EG_{c,y}$)

By site interview and checking the monitoring plan contained in the renewed VCS PD (version 02 dated 11/02/2020) and verification reports, CTI confirmed $EG_{c,y}$ is continuously measured by main meter M1 and backup meter M2. Both meters were bi-directional and installed on the 110kV transmission line. The meter reading was recorded monthly and archived electronically. When main meter M1 is not

working well, readings from backup meter M2 will serve as reference for calculation of emission reductions. By checking operation log /6/, it is confirmed that main meter M1 is working well during this monitoring period. In this monitoring period, the cut-off time was 24:00 hr of 25th of each month. At the cut-off time, the staff from project developer and the grid company read the electricity meters together. The project developer record electricity meter readings and form Monthly Reading Records (MRRs) /7/. The staff from power grid company record electricity meter readings and then transcribes the data into Electricity Receipts /9/. $EG_{s,y}$ was sourced from Meter Reading Records (MRRs) /7/ issued by the project developer, and Electricity Receipts /9/ issued by power grid company covering monitoring period.

Electricity consumed by the project through the backup line ($EG_{backupline,y}$)

By site interview and checking the monitoring plan contained in the renewed VCS PD (version 02 dated 11/02/2020) and verification reports, CTI confirmed $EG_{backupline,y}$ is continuously measured by meter M3, which is installed on the backup line on site. The meter reading was recorded monthly and archived electronically. By checking operation log /6/ and Monthly Reading Records (MRRs) /7/, it is confirmed that in this monitoring period no electricity was consumed by the project through the backup line.

As described above, the meters have been installed in accordance with VCS Program rules and meet all appropriate rules and requirements of VCS standard. 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 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 quantity of net electricity generation supplied 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.

No.	Serial No.	Type	Accuracy	Calibration date	Validity
Main meter M1	93982944	ZMD402CT	0.2s	29/09/2017	28/09/2018
				29/09/2018	28/09/2019
				29/09/2019	28/09/2020
				29/09/2020	28/09/2021
				29/09/2021	28/09/2022
Backup meter M2	93982945	ZMD402CT	0.2s	29/09/2017	28/09/2018
				29/09/2018	28/09/2019

				29/09/2019	28/09/2020
				29/09/2020	28/09/2021
				29/09/2021	28/09/2022
Meter M3	070809002686	DS862	0.5s	29/09/2017	28/09/2018
				29/09/2018	28/09/2019
				29/09/2019	28/09/2020
				29/09/2020	28/09/2021
				29/09/2021	28/09/2022

The meter M1, M2 and M3 were calibrated by Hebei Electric Power Research Institute on 29/09/2017 and by Measurement Center of State Grid Yibei Electric Power Co., Ltd. on 29/09/2018, 29/09/2019, 29/09/2020 and 29/09/2021. 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 renewed VCS PD (version 02 dated 11/02/2020). 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 renewed VCS PD (version 02 dated 11/02/2020) and relevant industry standard.

In the monitoring plan of the renewed VCS PD (version 02 dated 11/02/2020), 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 renewed VCS PD (version 02 dated 11/02/2020) and relevant industry standard, and the calibrations of meters are verified to be valid for the whole reporting period.

Data management and control

Hebei Construction Investment Zhongxing Wind 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 /31/ 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-SUED1218101320.07/view?cp=1>), it is confirmed by CTI that the project has been registered as CDM project activity on 06/03/2009 with reference No. 2007. GHG emission reductions have been issued as CERs from 06/03/2009 - 31/12/2012 under CDM scheme. 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's 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 VCU's.

By checking the renewed VCS PD (version 02 dated 11/02/2020), China's National Plan on Implementation of the 2030 Agenda for Sustainable Development and 17 SDGs defined by UNDP, and interviewing with stakeholders during site visit, the verification team confirmed that the project would contribute to sustainable development in as below:

- SDG 13: Reducing greenhouse gas emissions compared to a business-as-usual scenario;
- SDG 7: Providing clean and renewable energy source and displacing the power generation of fossil fuel power plants, reducing pollution emissions caused by coal burning significantly, thus mitigating the air pollution and its adverse impacts on human health, promoting sustainable economic development in local area;
- SDG 8: Providing direct and indirect employment opportunities during construction and operation period and increasing power supply to alleviate power shortage in China, which promotes sustained, inclusive and sustainable economic growth, full and productive employment and decent work for local residents.

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

Item	Technical parameters	Unit
Type of Turbine	FD77A	
Nominal output	1500	kW
Diameter	77	m
Hub height	61.5	m
Rated voltage	690	V
Nominal wind speed	12.5	m/s

The verification team confirmed that there is no proposed or actual change to monitoring plan of the renewed VCS PD (version 02 dated 11/02/2020) 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 renewed VCS PD, 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 renewed VCS PD, the local stakeholder's meeting was held in Haixing County in December 2006. 38 participants attended the meeting including local residents, builders and members of the local authorities. The project owner introduced the proposed project, and then a survey was arranged through a one-page questionnaire, which was designed to be easily filled in. The opinions expressed by the stakeholders were recorded and are available on request.

The stakeholder meeting and 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.

For continuous communication with local stakeholders, the project owner public its office telephone to local people and put a grievance book /21/ in the office of the company. Via checking the grievance book, It is confirmed by the verification team that no comments were received. Through 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, no negative comments and issues from the local stakeholders during this monitoring period were identified and the project passed all the periodic spot checks by local government.

All such conclusion has been verified through site visit and check renewed VCS PD.

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 ($EG_{\text{facility},y}$) by the validated ex-ante fixed grid emission factor ($EF_{\text{grid},\text{CM},y}$).

$$BE_y = EG_{\text{facility},y} \times EF_{\text{grid},\text{CM},y} = (EG_{\text{s},y} - EG_{\text{c},y} - EG_{\text{backupline},y}) \times EF_{\text{grid},\text{CM},y}$$

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

EF is the grid emission factor of the which has been verified ex-ante in the validation stage in the renewed VCS PD (version 02 dated 11/02/2020) as 0.84045 tCO₂e/MWh for the crediting period.

Quantity of net electricity generation supplied by the project ($EG_{\text{facility},y}$)

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

$$EG_{\text{facility},y} = EG_{\text{s},y} - EG_{\text{c},y} - EG_{\text{backupline},y}$$

Data in the Monthly Reading Records (MRRs) and Electricity receipts are used to calculate EG_y as follows:

Period	$EG_{\text{s},y}$ (MWh)			$EG_{\text{c},y}$ (MWh)			$EG_{\text{backupline},y}$ (MWh)	$EG_{\text{facility},y}$ (MWh)
	MRRs (MWh)	Electricity receipts (MWh)	Data for ER calculation (MWh)	MRRs (MWh)	Electricity receipts invoices (MWh)	Data for ER calculation (MWh)	Data for ER calculation (MWh)	
	A	B	C=Min(A,B)	D	E	F=Max(D,E)	G	
14/04/2018-25/04/2018	5,245.823	5,245.823	5,245.823	10.810	10.810	10.810	0.000	5,235.013
26/04/2018-25/05/2018	9,239.226	9,239.226	9,239.226	18.040	18.040	18.040	0.000	9,221.186
26/05/2018-25/06/2018	7,017.092	7,017.092	7,017.092	28.360	28.360	28.360	0.000	6,988.732
26/06/2018-25/07/2018	6,219.015	6,219.015	6,219.015	21.340	21.340	21.340	0.000	6,197.675
26/07/2018-25/08/2018	6,223.736	6,223.736	6,223.736	22.080	22.080	22.080	0.000	6,201.656
26/08/2018-25/09/2018	6,702.117	6,702.117	6,702.117	17.280	17.280	17.280	0.000	6,684.837

26/09/2018-25/10/2018	8,630.218	8,630.218	8,630.218	19.030	19.030	19.030	0.000	8,611.188
26/10/2018-25/11/2018	10,960.623	10,960.623	10,960.623	24.870	24.870	24.870	0.000	10,935.753
26/11/2018-25/12/2018	12,903.782	12,903.782	12,903.782	23.050	23.050	23.050	0.000	12,880.732
Subtotal			73,141.632			184.860	0.000	72,956.772
26/12/2018-25/01/2019	12,803.083	12,803.083	12,803.083	31.090	31.090	31.090	0.000	12,771.993
26/01/2019-25/02/2019	11,903.665	11,903.665	11,903.665	23.570	23.570	23.570	0.000	11,880.095
26/02/2019-25/03/2019	12,923.815	12,923.815	12,923.815	14.650	14.650	14.650	0.000	12,909.165
26/03/2019-25/04/2019	12,275.034	12,275.034	12,275.034	14.790	14.790	14.790	0.000	12,260.244
26/04/2019-25/05/2019	13,092.183	13,092.183	13,092.183	10.220	10.220	10.220	0.000	13,081.963
26/05/2019-25/06/2019	8,890.763	8,890.763	8,890.763	16.240	16.240	16.240	0.000	8,874.523
26/06/2019-25/07/2019	7,012.705	7,012.705	7,012.705	19.810	19.810	19.810	0.000	6,992.895
26/07/2019-25/08/2019	6,530.989	6,530.989	6,530.989	25.180	25.180	25.180	0.000	6,505.809
26/08/2019-25/09/2019	6,620.417	6,620.417	6,620.417	23.910	23.910	23.910	0.000	6,596.507
26/09/2019-25/10/2019	9,248.016	9,248.016	9,248.016	10.760	10.760	10.760	0.000	9,237.256
26/10/2019-25/11/2019	10,237.103	10,237.103	10,237.103	26.430	26.430	26.430	0.000	10,210.673
26/11/2019-25/12/2019	12,903.347	12,903.347	12,903.347	21.380	21.380	21.380	0.000	12,881.967
Subtotal			124,441.120			238.030	0.000	124,203.090
26/12/2019-25/01/2020	11,932.803	11,932.803	11,932.803	15.190	15.190	15.190	0.000	11,917.613
26/01/2020-25/02/2020	12,976.346	12,976.346	12,976.346	20.940	20.940	20.940	0.000	12,955.406
26/02/2020-25/03/2020	13,904.974	13,904.974	13,904.974	9.870	9.870	9.870	0.000	13,895.104
26/03/2020-25/04/2020	14,880.447	14,880.447	14,880.447	10.660	10.660	10.660	0.000	14,869.787
26/04/2020-25/05/2020	10,936.793	10,936.793	10,936.793	15.230	15.230	15.230	0.000	10,921.563
26/05/2020-25/06/2020	10,482.773	10,482.773	10,482.773	24.180	24.180	24.180	0.000	10,458.593
26/06/2020-25/07/2020	8,093.014	8,093.014	8,093.014	20.880	20.880	20.880	0.000	8,072.134

26/07/2020-25/08/2020	7,884.823	7,884.823	7,884.823	21.640	21.640	21.640	0.000	7,863.183
26/08/2020-25/09/2020	7,023.485	7,023.485	7,023.485	10.630	10.630	10.630	0.000	7,012.855
26/09/2020-25/10/2020	8,801.347	8,801.347	8,801.347	19.050	19.050	19.050	0.000	8,782.297
26/10/2020-25/11/2020	12,406.013	12,406.013	12,406.013	6.680	6.680	6.680	0.000	12,399.333
26/11/2020-25/12/2020	10,321.682	10,321.682	10,321.682	28.220	28.220	28.220	0.000	10,293.462
Subtotal			129,644.500			203.170	0.000	129,441.330
26/12/2020-25/01/2021	9,231.934	9,231.934	9,231.934	17.920	17.920	17.920	0.000	9,214.014
26/01/2021-25/02/2021	12,823.014	12,823.014	12,823.014	6.880	6.880	6.880	0.000	12,816.134
26/02/2021-25/03/2021	11,382.024	11,382.024	11,382.024	9.250	9.250	9.250	0.000	11,372.774
26/03/2021-25/04/2021	13,808.472	13,808.472	13,808.472	18.620	18.620	18.620	0.000	13,789.852
26/04/2021-25/05/2021	12,923.183	12,923.183	12,923.183	13.050	13.050	13.050	0.000	12,910.133
26/05/2021-25/06/2021	7,980.237	7,980.237	7,980.237	10.770	10.770	10.770	0.000	7,969.467
26/06/2021-25/07/2021	7,093.672	7,093.672	7,093.672	6.390	6.390	6.390	0.000	7,087.282
26/07/2021-25/08/2021	6,980.923	6,980.923	6,980.923	24.520	24.520	24.520	0.000	6,956.403
26/08/2021-25/09/2021	9,750.834	9,750.834	9,750.834	26.010	26.010	26.010	0.000	9,724.824
26/09/2021-25/10/2021	11,420.368	11,420.368	11,420.368	17.290	17.290	17.290	0.000	11,403.078
26/10/2021-25/11/2021	13,336.014	13,336.014	13,336.014	10.920	10.920	10.920	0.000	13,325.094
Subtotal	/	/	116,730.675	/	/	161.620	0.000	116,569.055
Total for this monitoring period	/	/	443,957.927	/	/	787.680	0.000	443,170.247

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

Period	EG _{facility,y} (MWh)	EF _{grid,CM,y} (tCO ₂ /yr)	Baseline Emissions (tCO _{2e})
14/04/2018-25/12/2018	72,956.772	0.84045	61,316
26/12/2018-25/12/2019	124,203.090		104,386

26/12/2019-25/12/2020	129,441.330		108,788
26/12/2020-25/11/2021	116,569.055		97,970
Total in this monitoring period	443,170.247		372,460

*By checking the statement from local power grid company /25/, the verification team verified that the electricity exported to the grid by the Project and electricity imported from the grid by the Project for the period from 14/04/2018 to 25/04/2018 has been confirm by local Grid company.

Hence, the corresponding baseline emission reductions are calculated as:

$$BE_y = EG_{\text{facility},y} \times EF_{\text{grid,CM},y} = 443,170.247 \times 0.84045 = 372,460 \text{ tCO}_2\text{e}$$

Project emissions

As statement in the renewed VCS PD, for the wind power activities, the project emissions from the project is zero. Hence, PE_y during the monitoring period from Hebei Haixing 49.5MW Wind Farm Project is zero.

Leakages

Leakage does not need to be accounted for this project as per the renewed VCS PD.

Emission reductions

The emission reductions for this monitoring period was calculated as:

Monitoring period	GHG emission reductions or removals (tCO ₂ e)
14/04/2018-25/12/2018	61,316
26/12/2018-25/12/2019	104,386
26/12/2019-25/12/2020	108,788
26/12/2020-25/11/2021	97,970
Total ERs claimed (in 1322 days)	372,460

Comparison of actual emission reductions or net anthropogenic GHG removals by sinks with estimates in the renewed VCS PD

The emission reductions claimed are 372,460 tCO₂e in this monitoring period (i.e. 1322 days). Compared with expected emission reductions 350,058 tCO₂e (calculated as $96,650 \times 1322\text{d} / 365\text{d}$) in the renewed VCS PD, the reported emission reductions in this monitoring period are 6.40% larger than the expected, which is considered to be in the reasonable variation range. By checking the renewed CDM PDD /24/, it is confirmed that the variation of emission reduction has no impact to additionality of the project activity.

Therefore, 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 “Hebei Haixing 49.5MW Wind Farm Project” in China (VCS Project ID: 414) for the period 14/04/2018 to 25/11/2021.

The verification is based on the baseline and monitoring methodology ACM0002 (version 20.0), renewed VCS PD (version 02 dated 11/02/2020). 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 4.1 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 renewed VCS PD;

- the monitoring plan in registered renewed VCS PD is as per the applied methodology;
- the monitoring complies with the monitoring plan in the renewed VCS PD;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS Version 4.1 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 "Hebei Haixing 49.5MW Wind Farm Project" for the period 14/04/2018 to 25/11/2021 are fairly stated in the monitoring report (version 1.2 dated 07/02/2022). The GHG emission reductions were calculated correctly on the basis of the approved methodology ACM0002 (version 20.0) and the monitoring plan contained in the renewed VCS PD (version 02 dated 11/02/2020).

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 14/04/2018 to 25/11/2021

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)
14/04/2018-25/12/2018	61,316	0	0	61,316

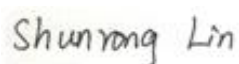
26/12/2018-25/12/2019	104,386	0	0	104,386
26/12/2019-25/12/2020	108,788	0	0	108,788
26/12/2020-25/11/2021	97,970	0	0	97,970
Total	372,460	0	0	372,460



Ms. Wang Guolian

Team Leader

08/02/2022



Ms. Lin Shunrong

Technical Reviewe

08/02/2022

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/ Beijing Cronus Technology Consultancy Center: VER/VCU Monitoring Report for Hebei Haixing 49.5MW Wind Farm Project, version 1.0 dated 06/12/2021, version 01.1 dated 10/12/2021, version 1.2 dated 07/02/2022
- /2/ Beijing Cronus Technology Consultancy Center: Emission reduction calculation spreadsheet for Hebei Haixing 49.5MW Wind Farm Project, version 1.0 dated 06/12/2021, version 01.1 dated 10/12/2021
- /3/ Hebei Construction Investment Zhongxing Wind Energy Co., Ltd and State Grid Hebei Electric Power Company: Power Purchase Agreement for Hebei Haixing 49.5MW Wind Farm Project.
- /4/ Hebei Construction Investment Zhongxing Wind Energy Co., Ltd: VER monitoring manual and management procedure.
- /5/ Hebei Construction Investment Zhongxing Wind Energy Co., Ltd: Records of training for on-site staff.
- /6/ Hebei Construction Investment Zhongxing Wind Energy Co., Ltd: Operation log sheets, from 14/04/2018 to 25/11/2021.
- /7/ Hebei Construction Investment Zhongxing Wind Energy Co., Ltd: Monthly reading records (MRRs) of Hebei Haixing 49.5MW Wind Farm Project from 14/04/2018 to 25/11/2021.
- /8/ Gansu Power Grid Company: Electricity Receipts of Electricity exported to the grid by the Project from 14/04/2018 to 25/11/2021.
- /9/ Gansu Power Grid Company: Electricity Receipts of Electricity imported from the grid by the Project, from 14/04/2018 to 25/11/2021.
- /10/ Demeter Venture Uk Limited: the renewed VCS PD, version 02 dated 11/02/2020.
- /11/ Registered CDM PDD version 06 dated 16/02/2009.
- /12/ Hebei Provincial Market Supervision Administration: Accreditation certificate of Measurement Center of State Grid Yibei Electric Power Co., Ltd. valid till 29/11/2023.
- /13/ Hebei Provincial Quality and Technology Supervision Bureau: Accreditation certificate of Hebei Electric Power Research Institute, valid till 14/02/2020.
- /13/ Measurement Center of State Grid Yibei Electric Power Co., Ltd.: Calibration certificates for meters on 29/09/2018, 29/09/2019, 29/09/2020 and 29/09/2021.
- Hebei Electric Power Research Institute: Calibration certificates for meters on 29/09/2017.

- /14/ Hebei Construction Investment Zhongxing Wind 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/ LGAI Technological Center, S.A. (Applus+ Certification): Validation Report of Renewed VCS PD, version 01.1 dated 15/02/2020
- /17/ Shenzhen CTI International Certification Co.,Ltd (CTI): the Validation Report of registered CDM PDD, Version 2 dated 24/02/2009
- /18/ UNFCCC website: CDM Monitoring Reports for Hebei Haixing 49.5MW Wind Farm Project of previous monitoring periods
- /19/ UNFCCC website: CDM Verification Reports for Hebei Haixing 49.5MW Wind Farm Project of previous monitoring periods
- /20/ Business License of Hebei Construction Investment Zhongxing Wind Energy Co., Ltd
- /21/ Photo of grievance book to collect comments about project implementation from local stakeholders
- /22/ VERRA website: VCS Monitoring Report for Hebei Haixing 49.5MW Wind Farm Project of previous monitoring period
- /23/ VERRA website: VCS Verification Report for Hebei Haixing 49.5MW Wind Farm Project of previous monitoring period
- /24/ VERRA website: renewed CDM PDD, version 08 dated 22/08/2016
- /25/ Statement from local power grid company about electricity supplied to the grid and electricity consumed from the grid by the Project for the period from 14/04/2018 to 30/04/2018
- /26/ Shenzhen CTI International Certification Co., Ltd (CTI): Validation Opinion of renewed CDM PDD, version 01 dated 23/08/2016

Methodologies, tools and other guidance

- /27/ Verified Carbon Standard: VCS Standard, version 4.1..
- /28/ Verified Carbon Standard: VCS Program Guide, version 4.0.
- /29/ Verified Carbon Standard: Registration and Issuance Process, version 4.0.
- /30/ UNFCCC EB: Approved methodology, ACM0002, version 20.0

Persons interviewed

- /31/ Mr. Chen Xin, Director of the plant, Hebei Construction Investment Zhongxing Wind Energy

Co., Ltd

Mr. Fan Kailiang, Duty Director, Hebei Construction Investment Zhongxing Wind Energy Co., Ltd

Mr. Gao Feng, O&M Staff, Hebei Construction Investment Zhongxing Wind Energy Co., Ltd

Mr. Zhang Pengfei, local resident, Local Village

Mr. Jia Shenggang, local resident, Local Village

Ms. Wu Zhixia, local resident, Local Village

Mr. Nie Yingliang, Staff, Local Environment Protection Bureau

Ms. Zhang Ling, Project Manager, Hebei Construction Investment New Energy Co., 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
NA	NA	NA	NA

Table 3: Forward Action Requests

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