

VCS VERIFICATION REPORT

SHANDONG TAIPINGSHAN WIND FARM PROJECT

(VCS PROJECT ID: 1189)



Document Prepared By

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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 "Shandong Taipingshan Wind Farm Project" (VCS Project ID:1189) for the monitoring period 01/01/2016-26/04/2020 within the 1st VCS crediting period 27/04/2010-26/04/2020, 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 two CLs, no CAR nor FAR in this monitoring period.

In CTI's opinion, the GHG emission reductions reported for the project in the monitoring report (version 02 dated 21/04/2021) are fairly stated. The GHG emission reductions of the period from 01/01/2016-26/04/2020 within the 1st VCS crediting period were calculated correctly on the basis of approved methodology ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from

renewable sources" (version 12.2.0) and the monitoring plan contained in the registered PDD (version 05 dated 12/04/2012).

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 "Shandong Taipingshan Wind Farm Project" during the period amount to 358,660 tCO_2e.

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1 INTRODUCTION

CGN Carbon Asset Management (Beijing) Co., Ltd has commissioned Shenzhen CTI International Certification Co., Ltd (CTI) to carry out the verification and certification of emission reductions reported for the "Shandong Taipingshan Wind Farm Project" (the project) for the monitoring period 01/01/2016-26/04/2020. 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 "Shandong Taipingshan Wind Farm Project" for the period 01/01/2016-26/04/2020.

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)/23/
- VCS Standard (version 4.0)/22/ and other relevant requirements defined by Verra;
- The approved methodology ACM0002 (version 12.2.0)/26/ 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

1.4.1. Sectoral Scope and Project Type

According to the VCS Program Guide (version 4.0)/23/, the project is applicable under the following activity categories:

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

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

1.4.2. Project Background

The project is located in Weifang City, Shandong Province, P. R. China, with east longitude 118°42'46"E - 118°50'27"E and north latitude 36°10'20"N - 36°13'30"N. The project activity was registered as a CDM project with Ref.5659 on 24/04/2012 and the 1st CDM crediting period is from 24/04/2012 - 23/04/2019, which has been renewed on 27/04/2019 with the 2nd CDM crediting period from 24/04/2019-23/04/2026. The project has been registered as VCS project with Ref. VCS 1189 under VCS Standard Version 3.4. As per the VCS standard, the project starting date is 27/04/2010 when the first turbine put into operation and began generating GHG emission reductions. The amount of 180,005tCO_2e VCUs have been issued for the monitoring period from 27/04/2010-23/04/2012.

The installed capacity of the project is 49.3MW equipped with 58 sets of 850kW wind turbine-generators in type of G58-850kW manufactured by Gamesa Wind(Tianjing) Co., Ltd.. The electricity generated by the project activity is supplied to the North China Power Grid (hereafter referred to as "NCPG"), and the project is estimated to deliver 84,740 tonnes CO_2 emission reduction annually.

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 CDM PDD (version 05 dated 12/04/2012) and the GAP VCS PD (version 02 dated 28/12/2013), the applied methodology, and the VCS Standard (version 4.0) 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	Lin Shunrong	1.2, 14.1, 15.1	☒ DR ☒ SV ☒ RP ☐ TR
Technical Reviewer	Wang Guolian	1.2, 3.1, 4.1, 5.1, 5.2, 11.1, 11.2, 12.1	☒ DR ☐ SV ☐ RP ☒ TR

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

In addition to the VER/VCU monitoring report/1/, VCS PD (version 02 dated 28/12/2013) /14/, emission reduction calculation spreadsheet/2/, the following documents also were assessed as a part of the verification audit:

- The registered CDM PDD (version 05 dated 12/04/2012) for the project activity/13/, including the monitoring plan and the corresponding CDM validation report/18/;
- Baseline and monitoring methodology ACM0002 (version 12.2.0) applied by the project/26/;
- Relevant decisions, clarifications and guidance from the Verra/22/-/26/; 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 07/04/2021, CTI visited the project proponent Anqiu Taipingshan Wind Power Co., Ltd. to perform on-site assessment. The key personnel of the project were interviewed or assisted the verification team /27/. 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/27/ are summarized in the table below:

Interviewed personnel	Position	Subject
Mr. Yu Wentao	Plant Director of Anqiu Taipingshan Wind Power 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; Data collection and ER calculation; Local stakeholders' consultation; Project's sustainable development contributions.
Mr. Wang Jiateng	Engineer of Anqiu Taipingshan Wind Power Co., Ltd.	
Mr. Li Gongde	Contact person of Anqiu Taipingshan Wind Power Co., Ltd.	
Ms. Zhao Xiaoli	Local villager	
Mr. Yang Dong	Local villager	
Mr. Zhang Xiaodong	Official of Local Environment Protection Bureau	
Ms. Ji Huiying	Project Manager of CGN Carbon Asset Management (Beijing) Co., Ltd	

2.4. Site Inspections

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 and 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 the registered PDD;
- A cross-check between information provided in the monitoring report and data from other sources such as plant logbooks and electricity sales receipts;
- A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the registered CDM PDD 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 Anqiu Taipingshan Wind Power Co., Ltd. and project consultant CGN Carbon Asset Management (Beijing) 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 12.2.0), 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 2 CLs in this monitoring period, and no CAR nor FAR was raised. The CLs were satisfactorily addressed by the project proponents in the revised monitoring report and PD (refer to Appendix A for further details).

2.5.1. 2.5.1 Forward Action Requests

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/20/, and no FAR was raised during this verification.

2.6. Eligibility for Validation Activities

The project has been validated under the CDM rules and registered as CDM project. CTI has undertaken validation activities as part of the verification for the project according to the VCS Program Guide. CTI was accredited in Sectoral Scope 1 on validation and verification and thus is eligible for validation activities on the proposed project.

3. VALIDATION FINDINGS

The project activity is registered as CDM project activity under the UNFCCC on 24/04/2012 with the Registration Ref. No. 5659.The CDM crediting period of the project starts on 24/04/2012 with a renewable crediting period of 3*7 years. The emission reductions from 27/04/2010-23/04/2012 prior to the CDM crediting period were claimed as Voluntary Carbon Units (VCU) under the Voluntary Carbon Standard (VCS 3.4).

By checking the registered CDM PDD and site visit interview with project owner, it is confirmed that the project started operation on 27/04/2010 which is the project start date according to the requirement of VCS. A deviation was identified for the crediting period of the Project. The project is registered under VCS Version 3.4 and completed validation before 19/03/2020. As per VCS requirement, it remains eligible to apply the crediting period requirements under VCS Version 3 which shall be a maximum of ten years and may be renewed at most twice. Therefore, the first renewable crediting period of the Project is updated from 27/04/2010-23/04/2012 to 27/04/2010-26/04/2020, which lasts for 10 years.

3.1. Participation under Other GHG Programs

The project has been registered as a CDM project on 24/04/2012 under the UNFCCC with Ref. 5659 The 1st CDM crediting period is from 24/04/2012-23/04/2019 and the 2nd CDM crediting period is renewed from 24/04/2019-23/04/2026. By checking the UNFCCC website (https://cdm.unfccc.int/Projects/DB/SGS-UKL1326112903.91/view?cp=1 and https://cdm.unfccc.int/Projects/DB/SGS-UKL1326112903.91/view?cp=2), it is confirmed that no GHG emission reductions has been issued or requested for issuance under the CDM program during the 1st CDM crediting period and the current 2nd CDM crediting period.

CTI only performed verification activities on the proposed monitoring period within the 1st renewable crediting period for the project according to the VCS Program Guide.

3.2. Methodology Deviations

The validation process/18/ has assessed all factors and issues that constitute the basis for emission reductions from the project according to the applicable CDM methodology ACM0002 (version 12.2.0) /26/. There was not any methodology deviation applied to this project. Details refer to section 4.1.

3.3. Project Description Deviations

The verification team assessed through visual inspection and document review that all physical features of the proposed project activity including data monitoring, reporting and collecting systems have been implemented in accordance with the registered CDM PDD. CTI confirms that the project is fully implemented in accordance with the project description contained in registered CDM PDD (version 05 dated 12/04/2012), and no deviations for the project description. Details refer to section 4.1.

3.4. Grouped Project

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

4. VERIFICATION FINDINGS

This section summarises the findings from the verification of the emission reductions reported for the "Shandong Taipingshan Wind Farm Project" for the monitoring period 01/01/2016-26/04/2020.

4.1. Project Implementation Status

4.1.1. Project Implementation in accordance with the registered project design document

The project is a wind power grid-connected plant and locates in Weifang City, Shandong Province, P. R. China. The geographical coordinates are verified by GPS system as east longitude 118°42'46"E - 118°50'27"E and north latitude 36°10'20"N - 36°13'30"N. The total installed capacity is 49.3MW equipped with 58 sets of 850kW wind turbine-generators in type of G58-850kW. The first turbine started operation on 27/04/2010 and the project has put into full operation since 01/11/2010. The actual implementation of the project during this verification period was verified in terms of name plates of turbines and generators and the equipment purchase contract. The details of the turbines and generators with respect to their installation and capacity have been verified to be consistent with description indicated in the registered CDM PDD.

The electricity generated by the project activity is supplied to the NCPG, which can be confirmed by the Power purchase agreement (PPA) signed between Anqiu Taipingshan Wind Power Co., Ltd. and Linyi Electric Power Company/3/. 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 daily operation

and maintenance records/7/, CTI can 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/6/ and their implementation was confirmed by interview with the key operators/27/ and observing the operation.

CTI confirms that the project implementation is in accordance with the project description contained in registered CDM PDD. Furthermore, through visual inspection and document review, it is confirmed that all physical features of the project activity including data collection systems and storage systems have been implemented in accordance with the registered CDM PDD.

4.1.2. Compliance of monitoring plan with monitoring methodology

CTI is able to confirm that the monitoring plan in the registered CDM PDD (version 05 dated 12/04/2012) is in accordance with the approved methodology applied by the project activity, i.e. ACM0002 (version 12.2.0).

4.1.3. Compliance of monitoring with the monitoring plan

The monitoring has been carried out in accordance with the monitoring plan contained in the registered CDM PDD (version 05 dated 12/04/2012). 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 12.2.0) 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 in further verified in the following sections.

Parameters fixed ex ante

"Data and parameters fixed ex ante" in the MR are checked against the registered CDM PDD and GAP VCS PD. The parameter $EF_{grid,CM,y}$ is the combined emission factor of the grid, which was determined ex-ante at the validation stage and will be fixed during the first crediting period. CTI verified and confirms that the emission factor used in the monitoring report is in compliance with the registered CDM PDD.

Parameters monitored

CTI conducted document review and performed on-site assessment with project stakeholders to:

- A review of information flows for generating, aggregating and reporting the monitoring parameters;
- Determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the registered CDM PDD;

- A cross-check between information provided in the monitoring report and data from other sources such as plant logbooks and electricity sales receipts;

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.

According to the registered monitoring plan, the parameters to be monitored are as below:

(1) $EG_{facility,y}$: Quantity of net electricity supplied by the project to the Grid in year y, which is calculated as $EG_{export,y}$ - $EG_{import,y}$

(2) $EG_{export,y}$: Electricity supplied to the grid by the Project in year y

(3) $EG_{import,y}$: Electricity imported from the grid by the project in year y

Based on the on-site visit and checking the connection diagram, PPA and meters, it is confirmed that the project shares the 35kv/110kv transformer, main transmission line and the meters M1(main meter) and M2 (backup meter) with another wind farms (Shandong Yishui Tangwangshan Wind Farm project, VCS Ref. 1187& CDM Ref.5658, hereafter referred to Project B). The main meter M1 installed at the inlet side of Muling 220kV substation monitors total electricity exports to and imports from the grid by both wind farms. Meters M3 and M4 are installed at two 35kV transmission lines (the low voltage side of 35kV/110kV substation) on the project site respectively to monitor the electricity exports and imports of the project. Meter M5 is installed at the 35kV transmission line (the low voltage side of 35kV/110kV substation) of the project B to monitor its electricity exports and imports. The electricity supplied to the grid by the project activity ($EG_{export,y}$) is determined by the way of electricity allocation:

$$EG_{export,y} = EG_{A,y}/(EG_{A,y} + EG_{B,y})* EG_{output,y}$$

Where:

$EG_{output,y}$: Total electricity supplied to the grid by the project and Project B in the year y measured by M1

$EG_{A,y}$: Electricity supplied to the grid by the project in the year y measured by M3 and M4

$EG_{B,y}$: Electricity supplied to the grid by the Project B in the year y measured by M5

To be conservativeness, the electricity delivered to the project by the grid ($EG_{import,y}$) applies the total electricity imports by the both projects measured by M1.

Therefore, the net electricity supplied by the project to the grid is calculated as:

$$EG_{facility,y} = EG_{export,y} - EG_{import,y} = EG_{A,y}/(EG_{A,y} + EG_{B,y})* EG_{output,y} - EG_{import,y}$$

The verification team had on-site checked the location of the meters against the diagram of power connection system/4/ and found them to be consistent and also installed in accordance with the registered CDM PDD. All the monitoring facilities and system have been verified by CTI during on-site visit.

The meter readings are continuously measured and recorded by trained staff as agreed with the grid company at 24:00 on the last day of each month/8/. The electricity sales receipts/9/ company issued by the local grid company have been used for cross-check of electricity export and import. Through a cross check, the conservative values from electricity export and import were applied to calculate the net electricity supplied to the grid by the project. The data reported in the monitoring report and ERs calculation spreadsheet 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.

To be concluded, monitoring of data and parameters related to the GHG emission reductions in the project activity have been carried out in accordance with the approved monitoring plan.

CL 01 was raised for clarifying the source of data for determining $EG_{export,y}$ and $EG_{import,y}$, which has been successfully closed, Refer to Appendix 3 for details.

Monitoring equipment and calibration

The documents review was carried out. Particular attention was paid to the frequency of measurements, the quality of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the registered CDM PDD and the methodology ACM0002 (version 12.2.0) and corresponding tool(s), and the quality assurance and quality control procedures.

All monitoring meters have been calibrated annually as per the monitoring plan covering this monitoring period. The relevant information of the calibration is listed as below:

Item	M1 (Main meter)	M2 （Backup for M1）	M3	M4	M5
SN	1305712953	09070125900004	09090151400334	09090151400336	09090151400332
Accuracy class	0.5S	0.2S	0.5S	0.5S	0.5S
Calibration frequency	Annually	Annually	Annually	Annually	Annually
Calibration Date	13/01/2015 13/01/2016 13/01/2017 13/01/2018 13/01/2019 13/01/2020	13/01/2015 13/01/2016 13/01/2017 13/01/2018 13/01/2019 13/01/2020	13/01/2015 13/01/2016 13/01/2017 13/01/2018 13/01/2019 13/01/2020	13/01/2015 13/01/2016 13/01/2017 13/01/2018 13/01/2019 13/01/2020	13/01/2015 13/01/2016 13/01/2017 13/01/2018 13/01/2019 13/01/2020
Validity	12/01/2016 12/01/2017 12/01/2018 12/01/2019 12/01/2020 12/01/2021	12/01/2016 12/01/2017 12/01/2018 12/01/2019 12/01/2020 12/01/2021	12/01/2016 12/01/2017 12/01/2018 12/01/2019 12/01/2020 12/01/2021	12/01/2016 12/01/2017 12/01/2018 12/01/2019 12/01/2020 12/01/2021	12/01/2016 12/01/2017 12/01/2018 12/01/2019 12/01/2020 12/01/2021
Calibration entity	Electricity Measurement Inspect Centre of Linyi Electricity Power Bureau				

Calibration records and accreditation certificates/15//16/ have been verified by the verification team. The actual accuracy of main meter M1 and meters M3-M5 is verified to be 0.5S which is compliance with the monitoring plan in the registered CDM PDD and the backup meter M2 is verified to be 0.2S which is more accurate than the requirement in the registered CDM PDD (no lower than 0.5S) and in compliance with the Technical administrative code of electric energy metering (DL/T448-2016)/17/. The calibration frequency of meters is annual, which is consistent with the registered CDM-PDD. Based on the site visit and by checking the calibration reports, CTI found the calibration frequency of these meters is annual, which is in line with the registered CDM, CTI confirms that,

- All meters have been installed in accordance with the monitoring plan;
- The meters' accuracy is in line with the requirement of the monitoring plan;
- The calibration frequency of the meters is annual, which is in line with the monitoring plan. And the calibrations are verified to be valid for the whole reporting period.

CL 02 was raised for requesting calibration information of all monitoring meters covering the reporting monitoring period, which has been successfully closed, Refer to Appendix 3 for details.

Data management and control

Anqiu Taipingshan Wind Power 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 CDM project management and monitoring manual/5/, including the organization structure with the responsibilities, personnel competencies, monitoring procedures and monitoring management. By interview with the staff/27/ and check records /7//8/ 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.

As the above and document review, verification team considers that the project activity operated properly in the way complying with the implementation plan and monitoring plan stipulated in the registered CDM PDD (version 05 dated 12/04/2012) and the monitoring was performed in a transparent and comprehensive manner during this monitoring period.

The project has been registered as a CDM project on 24/04/2012 under the UNFCCC with Ref. 5659 The 1st CDM crediting period is from 24/04/2012-23/04/2019 and the 2nd CDM crediting period is renewed from 24/04/2019-23/04/2026. By checking the UNFCCC website (https://cdm.unfccc.int/Projects/DB/SGS-UKL1326112903.91/view?cp=1 and https://cdm.unfccc.int/Projects/DB/SGS-UKL1326112903.91/view?cp=2), it is confirmed that no GHG emission reductions has been issued or requested for issuance under the CDM program during the 1st CDM crediting period and the current 2nd CDM crediting period. The amount of 180,005tCO_2e VCUs have been issued for the monitoring period from 27/04/2010-23/04/2012.

The verification team has also checked other GHGs programs such as China Emission Trading System (CCER), EU ETS, IREC, and based on the interview with the project proponent, it is confirmed that except CDM and VCS scheme:

- No evidence showing that the project has participated or been rejected under any other GHG programs since validation or previous verification;
- There is no observation that the project has received or sought any other form of environmental credit, or has become eligible to do so since validation or previous verification;
- The project is completely voluntary CDM project, not included in an emissions trading program or any other mechanism that includes GHG allowance trading.

Based on the on-site inspection, and through the interviews with local villagers and official from local environmental bureau, the verification team agrees on the following points regarding to the promotion of sustainability development by the project activity:

- Achieve obvious GHG emission reductions by avoiding CO_2 emissions, as grid-connected fossil fuel-fired power dominates in the NCPG;
- Replace grid-connected fossil fuel-fired power plants in the NCPG, and thus reduce fossil fuel consumption and avoid pollutants emission, such as sulfur dioxide and dust brought by fossil fuel combustion, thus bring obvious environmental benefits.
- Offer job opportunities for local people during both the construction and operational period.
- Achieve economic growth and booming of local tourism through the construction and operation of the project, and contribute to local government with more tax revenues.

4.2. Safeguards

4.2.1. 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

villagers, wastewater, noise, 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. 4.2.2 Local Stakeholder Consultation

As per the registered CDM PDD, the local stakeholder's consultation was done through distributing questionnaires during the local consultation meeting on 16/06/2009, which was designed to be easily filled in. 50 copies of questionnaire were distributed, and 100% recovered were received. 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.

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

For this monitoring period, the project proponent has placed the complaint book in local village committee by the project proponent to allow villagers to record their comments timely. The contact person quarterly checked the complaint book. The phone number of contact person and information of the project are also published on the bulletin board of village committee to facilitate the direct communication from local villager. Furthermore, the contact person had the consultation meetings yearly with local villagers in Aug 2016, Sep 2017, Aug 2018, Sep 2019 and Sep 2020 during the monitoring period. All the comments received by the contact person through the above approaches were timely collected and reported to the plant director. Based on the site inspection, i.e. by checking the complaint book/10/, yearly meeting memos/12/ and interviewing with the local villagers, the contact person and plant director/27/, the verification team confirmed that on-going communication mechanism was well set up and carried out at periodic intervals by the project proponent during this monitoring period, and there are no negative comments received for the project.

Moreover, the local environment bureau has conducted periodic spot-check and follow-up interviews with local villagers for their comments regarding to project implementation. Based on the interview with official from local environment bureau, the verification team confirmed that there were no negative comments and issues raised from the local stakeholders during this monitoring period and the project passed all the periodic spot checks by local government.

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 emissions are determined as multiplying quantity of net electricity generation supplied by the project 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 ($EF_{grid,CM,y}$)

$EF_{grid,CM,y}$ is the grid emission factor of the which has been verified ex-ante in the validation stage in the registered CDM PDD as 0.9309tCO_2e/MWh.

Quantity of net electricity generation supplied by the project to the grid in year y ($EG_{facility,y}$)
As mentioned in Section 4.1.3 above,$EG_{facility,y}$ is determined as follows:

$$EG_{facility,y} = EG_{A,y}/(EG_{A,y} + EG_{B,y})* EG_{output,y} - EG_{import,y}$$

Data in the monthly reading records were used to report. Through a cross check with the electricity sales receipts, the most conservative values have been applied to calculate the electricity exported to and imported from the grid by the project.

Table 1 Electricity supplied to the grid by the Project (MWh)

Period	$EG_{A,y}$		$EG_{B,y}$	$EG_{outputy}$	$EG_{export,y}$		
	Measured by M3	Measured by M4	Measred by M5	Measured by M1			
	A1	A2	B	C	D=(A1+A2)/(A1+A2+B)*C	Electricity sales receipts (E)	Value (F=Min(D,E))
01/01/2016-31/01/2016	2622.20	3451.28	3446.80	9429.20	6832.09	6832.09	6832.09
01/02/2016-29/02/2016	1835.40	2953.02	2949.10	7666.56	5847.99	5847.99	5847.99
01/03/2016-31/03/2016	3492.44	4157.02	4152.54	11713.68	8247.38	8247.38	8247.38
01/04/2016-30/04/2016	3727.36	3991.54	3987.06	11616.88	7917.88	7917.88	7917.88
01/05/2016-31/05/2016	3687.04	3943.24	3938.76	11480.48	7821.66	7821.66	7821.66
01/06/2016-30/06/2016	2138.36	3316.88	3311.00	8696.16	6574.89	6574.89	6574.89

Period	$EG_{A,y}$		$EG_{B,y}$	$EG_{outputy}$	$EG_{export,y}$		
	Measured by M3	Measured by M4	Measred by M5	Measured by M1			
	A1	A2	B	C	D=(A1+A2)/(A1+A2+B)*C	Electricity sales receipts (E)	Value (F=Min(D,E))
01/07/2016-31/07/2016	1653.68	3706.08	3701.60	8994.48	7353.01	7353.01	7353.01
01/08/2016-31/08/2016	1747.20	2672.88	2671.20	7029.44	5297.48	5297.48	5297.48
01/09/2016-30/09/2016	2558.08	3691.52	3684.52	9841.04	7306.93	7306.93	7306.93
01/10/2016-31/10/2016	3032.40	3704.54	3702.02	10359.36	7350.08	7350.08	7350.08
01/11/2016-30/11/2016	3933.44	5423.32	5412.40	14678.40	10769.13	10769.13	10769.13
01/12/2016-31/12/2016	3338.72	4548.60	4544.12	12340.24	9026.01	9026.01	9026.01
Subtotal 2016							**90344.54**
01/01/2017-31/01/2017	1684.48	2046.10	2043.58	5729.68	4058.18	4058.18	4058.18
01/02/2017-28/02/2017	4588.36	4803.12	4796.68	14097.60	9538.53	9538.53	9538.53
01/03/2017-31/03/2017	3363.36	4600.68	4596.20	12468.72	9129.87	9129.87	9129.87
01/04/2017-30/04/2017	3463.04	4546.36	4541.88	12459.92	9022.09	9022.09	9022.09
01/05/2017-31/05/2017	3297.28	4809.56	4805.08	12825.12	9550.01	9550.01	9550.01
01/06/2017-30/06/2017	2850.40	4539.50	4535.02	11837.76	9008.19	9008.19	9008.19
01/07/2017-31/07/2017	1883.56	3371.48	3370.64	8550.08	6683.03	6683.03	6683.03
01/08/2017-31/08/2017	1490.16	2274.16	2268.56	5980.48	4503.26	4503.26	4503.26
01/09/2017-30/09/2017	1198.12	1999.48	1996.68	5155.04	3965.97	3965.97	3965.97
01/10/2017-31/10/2017	2152.36	2695.00	2696.12	7482.64	5347.64	5347.64	5347.64
01/11/2017-30/11/2017	3951.92	4977.84	4973.36	13815.12	9888.21	9888.21	9888.21
01/12/2017-31/12/2017	3644.48	4963.14	4960.62	13464.88	9848.16	9848.16	9848.16
Subtotal 2017							**90543.14**
01/01/2018-31/01/2018	2838.92	4123.42	4123.42	11017.60	8196.13	8196.13	8196.13
01/02/2018-28/02/2018	2896.04	3393.60	3391.08	9597.28	6726.20	6726.20	6726.20
01/03/2018-31/03/2018	3731.56	5767.16	5762.68	15173.84	11463.69	11463.69	11463.69
01/04/2018-30/04/2018	3439.52	5922.98	5918.50	15195.84	11775.49	11775.49	11775.49
01/05/2018-31/05/2018	3501.68	4766.16	4761.68	12938.64	9461.38	9461.38	9461.38
01/06/2018-30/06/2018	1564.08	3519.74	3518.06	8531.60	6980.30	6980.30	6980.30

Period	$EG_{A,y}$		$EG_{B,y}$	$EG_{outputy}$	$EG_{export,y}$		
	Measured by M3	Measured by M4	Measred by M5	Measured by M1			
	A1	A2	B	C	D=(A1+A2)/(A1+A2+B)*C	Electricity sales receipts (E)	Value (F=Min(D,E))
01/07/2018-31/07/2018	1716.12	3110.52	3109.68	7861.92	6161.89	6161.89	6161.89
01/08/2018-31/08/2018	2155.44	2618.14	2614.78	7321.60	5185.64	5185.64	5185.64
01/09/2018-30/09/2018	928.48	1200.78	1199.10	3294.72	2375.62	2375.62	2375.62
01/10/2018-31/10/2018	2069.20	2868.04	2863.56	7725.52	5676.29	5676.29	5676.29
01/11/2018-30/11/2018	2723.84	3498.32	3493.84	9624.56	6926.35	6926.35	6926.35
01/12/2018-31/12/2018	2443.00	3527.02	3522.54	9403.68	6983.55	6983.55	6983.55
Subtotal 2018							**87912.54**
01/01/2019-31/01/2019	2715.44	3201.38	3202.50	9034.08	6344.02	6344.02	6344.02
01/02/2019-28/02/2019	2295.72	3432.66	3431.26	9093.92	6814.67	6814.67	6814.67
01/03/2019-31/03/2019	3166.24	4682.44	4677.96	12437.92	9294.10	9294.10	9294.10
01/04/2019-30/04/2019	3699.64	5366.62	5362.14	14339.60	10662.73	10662.73	10662.73
01/05/2019-31/05/2019	3705.80	4475.66	4481.54	12556.72	8882.02	8882.02	8882.02
01/06/2019-30/06/2019	2929.36	4769.94	4765.46	12378.08	9469.09	9469.09	9469.09
01/07/2019-31/07/2019	1292.48	2107.28	2105.04	5463.92	4181.04	4181.04	4181.04
01/08/2019-31/08/2019	1781.92	2725.38	2720.90	7170.24	5402.61	5402.61	5402.61
01/09/2019-30/09/2019	965.72	1969.66	1965.18	4853.20	3896.81	3896.81	3896.81
01/10/2019-31/10/2019	2490.32	3035.06	3036.18	8476.16	6010.68	6010.68	6010.68
01/11/2019-30/11/2019	2915.64	3976.00	3972.08	10772.08	7881.03	7881.03	7881.03
01/12/2019-31/12/2019	3375.12	4857.16	4852.68	12996.72	9644.36	9644.36	9644.36
Subtotal 2019							**88483.18**
01/01/2020-31/01/2020	2657.48	3570.98	3566.50	9703.76	7071.02	7071.02	7071.02
01/02/2020-29/02/2020	2196.04	2949.94	2945.46	8017.68	5841.66	5841.66	5841.66
01/03/2020-31/03/2020	3828.72	5195.96	5191.48	14125.76	10321.39	10321.39	10321.39
01/04/2020-26/04/2020*	2814.28	4053.00	4048.52	10826.64	8035.35	8035.35	8035.35
Subtotal 2020							**31269.42**
Total							**388,552.81**

Table 2 Electricity imported from the grid by the project (MWh)

Period	$EG_{import,y}$ measured by M1	ETN	Verified $EG_{import,y}$
	G	H	I=Max(G,H)
01/01/2016-31/01/2016	66.88	66.88	66.88
01/02/2016-29/02/2016	72.16	72.16	72.16
01/03/2016-31/03/2016	66.00	66.00	66.00
01/04/2016-30/04/2016	87.12	87.12	87.12
01/05/2016-31/05/2016	76.56	76.56	76.56
01/06/2016-30/06/2016	73.04	73.04	73.04
01/07/2016-31/07/2016	53.68	53.68	53.68
01/08/2016-31/08/2016	68.64	68.64	68.64
01/09/2016-30/09/2016	67.76	67.76	67.76
01/10/2016-31/10/2016	71.28	71.28	71.28
01/11/2016-30/11/2016	66.88	66.88	66.88
01/12/2016-31/12/2016	73.04	73.04	73.04
Subtotal 2016			**843.04**
01/01/2017-31/01/2017	84.48	84.48	84.48
01/02/2017-28/02/2017	72.16	72.16	72.16
01/03/2017-31/03/2017	66.00	66.00	66.00
01/04/2017-30/04/2017	87.12	87.12	87.12
01/05/2017-31/05/2017	76.56	76.56	76.56
01/06/2017-30/06/2017	74.80	74.80	74.80
01/07/2017-31/07/2017	78.32	78.32	78.32
01/08/2017-31/08/2017	68.64	68.64	68.64
01/09/2017-30/09/2017	67.76	67.76	67.76
01/10/2017-31/10/2017	71.28	71.28	71.28
01/11/2017-30/11/2017	84.48	84.48	84.48
01/12/2017-31/12/2017	78.32	78.32	78.32

Period	$EG_{import,y}$ measured by M1	ETN	Verified $EG_{import,y}$
	G	H	I=Max(G,H)
Subtotal 2017			**909.92**
01/01/2018-31/01/2018	66.88	66.88	66.88
01/02/2018-28/02/2018	54.56	54.56	54.56
01/03/2018-31/03/2018	66.00	66.00	66.00
01/04/2018-30/04/2018	58.96	58.96	58.96
01/05/2018-31/05/2018	50.16	50.16	50.16
01/06/2018-30/06/2018	48.40	48.40	48.40
01/07/2018-31/07/2018	78.32	78.32	78.32
01/08/2018-31/08/2018	68.64	68.64	68.64
01/09/2018-30/09/2018	50.16	50.16	50.16
01/10/2018-31/10/2018	71.28	71.28	71.28
01/11/2018-30/11/2018	49.28	49.28	49.28
01/12/2018-31/12/2018	60.72	60.72	60.72
Subtotal 2018			**723.36**
01/01/2019-31/01/2019	49.28	49.28	49.28
01/02/2019-28/02/2019	54.56	54.56	54.56
01/03/2019-31/03/2019	66.00	66.00	66.00
01/04/2019-30/04/2019	41.36	41.36	41.36
01/05/2019-31/05/2019	50.16	50.16	50.16
01/06/2019-30/06/2019	49.28	49.28	49.28
01/07/2019-31/07/2019	43.12	43.12	43.12
01/08/2019-31/08/2019	33.44	33.44	33.44
01/09/2019-30/09/2019	50.16	50.16	50.16
01/10/2019-31/10/2019	58.96	58.96	58.96
01/11/2019-30/11/2019	51.04	51.04	51.04
01/12/2019-31/12/2019	45.76	45.76	45.76
Subtotal 2019			**593.12**

Period	$EG_{import,y}$ measured by M1	ETN	Verified $EG_{import,y}$
	G	H	I=Max(G,H)
01/01/2020-31/01/2020	50.16	50.16	50.16
01/02/2020-29/02/2020	54.56	54.56	54.56
01/03/2020-31/03/2020	48.40	48.40	48.40
01/04/2020-26/04/2020*	44.00	44.00	44.00
Subtotal 2020			**197.12**
Total			**3,266.56**

* Note: During this monitoring period, the cut-off time for $EG_{export,y}$ and $EG_{import,y}$ is at 24:00 of the last day of each month. Data in the monthly reading records were used to report, and crosschecked by electricity sales receipts. Readings during 01/04/2020-26/04/2020 are also verified with the confirmation letter issued by the grid company. The verification team accepted this approach for ERs calculation and cross check since it is conservative and reasonable.

Hence, the conservative quantity of net electricity supplied by the project to the grid and the corresponding baseline emission during the monitoring period are calculated as:

Period	$EG_{facility,y}$	$EF_{grid,CM,y}$	BE_y
	(MWh)	(tCO_2e/MWh)	(tCO_2e)
01/01/2016- 31/12/2016	89,501.50	0.9309	83,316
01/01/2017- 31/12/2017	89,633.22	0.9309	83,439
01/01/2018- 31/12/2018	87,189.18	0.9309	81,164
01/01/2019- 31/12/2019	87,890.06	0.9309	81,816
01/01/2020- 26/04/2020	31,072.30	0.9309	28,925
Total	385,286.25		358,660

Project emissions

As statement in ACM0002 (version 12.2.0)/26/, for the wind power activities, the project emissions from the project are not considered. Hence, PE_y during the monitoring period from 01/01/2016-26/04/2020 is considered as zero.

Leakages

Leakage does not need to be accounted for this project as per the applied methodology.

Emission reductions

The emission reductions for this monitoring period was calculated as:

Monitoring period	GHG emission reductions or removals (tCO_2e)
01/01/2016- 31/12/2016	83,316
01/01/2017- 31/12/2017	83,439
01/01/2018- 31/12/2018	81,164
01/01/2019- 31/12/2019	81,816
01/01/2020- 26/04/2020	28,925
Total ERs claimed (in 1,578 days)	358,660

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

The emission reductions claimed are 358,660tCO_2e in this monitoring period (i.e. 1,578 days). Compared with yearly expected emission reductions 84,740 tCO_2e (365 days) in the registered CDM PDD (corresponding to 366,355tCO_2e for this monitoring period), the reported emission reductions in this monitoring period are lower than the expected. Considering the natural fluctuate of the wind resource and actual generator operation conditions, 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 "Shandong Taipingshan Wind Farm Project" in China (VCS Project ID: 1189) for the period 01/01/2016-26/04/2020.

The verification is based on the baseline and monitoring methodology ACM0002 (version 12.2.0), registered CDM PDD (version 05 dated 12/04/2012) and the VCS PD (version 02 dated 28/12/2013) and the monitoring report (version 02 dated 21/04/2021). 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 VCS PD;
- the monitoring plan in 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 4.0 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 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.

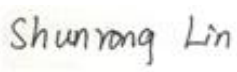
In CTI's opinion the GHG emissions reductions of the "Shandong Taipingshan Wind Farm Project" for the period 01/01/2016-26/04/2020 are fairly stated in the monitoring report (version 02 dated 21/04/2021). The GHG emission reductions were calculated correctly on the basis of the approved methodology ACM0002 (version 12.2.0) and the monitoring plan contained in the registered CDM PDD (version 05 dated 12/04/2012) and the VCS PD (version 02 dated 28/12/2013).

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:

Reporting period: 01/01/2016-26/04/2020

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

Year	Baseline emissions or removals (tCO_2e)	Project emissions or removals (tCO_2e)	Leakage emissions (tCO_2e)	Net GHG emission reductions or removals (tCO_2e)
Year 2016 (01/01/2016- 31/12/2016)	83,316	0	0	83,316
Year 2017 (01/01/2017- 31/12/2017)	83,439	0	0	83,439
Year 2018 (01/01/2018- 31/12/2018)	81,164	0	0	81,164
Year 2019 (01/01/2019- 31/12/2019)	81,816	0	0	81,816
Year 2020 (01/01/2020- 26/04/2020)	28,925	0	0	28,925
Total	358,660	0	0	358,660



Ms. Lin Shunrong

Technical Leader

22/04/2021



Ms. Wang Guolian

Team Revoiewer

22/04/2021

APPENDIX A: ABBREVIATIONS

CAR	Corrective Action Request
CCER	China Emission Trading System
CER	Certified Emission Reduction(s)
CL	Clarification request
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
CTI	Shenzhen CTI International Certification Co., Ltd
DOE	Designated Operational Entity
EF	Emission Factor
ER	Emission Reduction
EU ETS	EU Emissions Trading Scheme
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
IREC	International Renewable Energy Certificates
MP	MONITORING REPORT
MR	Monitoring Report
NCPG	North China Power Grid
PD	Project Description
PP	Project Proponent
SN	Serial Number
VCS	Verified Carbon Standard
VCU	Verified Carbon Unit

APPENDIX B: REFERENCES

5.1.1. Documentation used to verify the information provided by the project proponents

/1/	CGN Carbon Asset Management (Beijing) Co., Ltd: VER/VCU Monitoring Report for Shandong Taipingshan Wind Farm Project, version 01 dated 09/03/2021 and version 02 dated 21/04/2021
/2/	CGN Carbon Asset Management (Beijing) Co., Ltd: Emission reduction calculation spreadsheet for Shandong Taipingshan Wind Farm Project, version 1 dated 02/03/2021
/3/	Anqiu Taipingshan Wind Power Co., Ltd. and Linyi Electric Power Company.: Power Purchase Agreement for Shandong Taipingshan Wind Farm Project
/4/	Anqiu Taipingshan Wind Power Co., Ltd.： Diagram of power connection system
/5/	Anqiu Taipingshan Wind Power Co., Ltd. : VER monitoring manual and management procedure.
/6/	Anqiu Taipingshan Wind Power Co., Ltd. : Records of training for on-site staff.
/7/	Anqiu Taipingshan Wind Power Co., Ltd. : Daily operation and maintenance records, from 01/01/2016-26/04/2020
/8/	Anqiu Taipingshan Wind Power Co., Ltd. : Monthly reading records of Shandong Taipingshan Wind Farm Project from 01/01/2016-26/04/2020
/9/	Linyi Electric Power Company.: Monthly electricity sales receipts and confirmation letter for 01/01/2016-26/04/2020
/10/	Local Village Complaint Book
/11/	Contact information of PP posted on the bulletin board of village committee
/12/	Yearly Meeting Memos of Local Stakeholder Consultation
/13/	CGN Carbon Asset Management (Beijing) Co., Ltd: the registered CDM PDD, version 05 dated 12/04/2012
/14/	CGN Carbon Asset Management (Beijing) Co., Ltd: GAP VCS PD version 02 dated 28/12/2013
/15/	Shandong Province Quality and Technology Supervision: Accreditation certificate of Electricity Measurement Inspect Centre of Linyi Electricity Power Bureau, issued on 17 05/2012, valid up to 16/05/2017 and issued on 17/05/2017, valid up to 16/05/2020

/16/	Electricity Measurement Inspect Centre of Linyi Electricity Power Bureau: Calibration certificates for meters covering this monitoring period
/17/	State Economic and Trade Commission: Technical administrative code of electric energy metering (DL/T 448-2016)
/18/	SGS Climate Change Programme: Validation Report, version 2, dated 13/04/2012
/19/	CGN Carbon Asset Management (Beijing) Co., Ltd: VER/VCU Monitoring Report for Shandong Taipingshan Wind Farm Project of previous monitoring period 27/04/2010-23/04/2012, version 02 dated 28/12/2013
/20/	Shenzhen CTI International Certification Co., Ltd: VCS Verification Report for Shandong Taipingshan Wind Farm Project of previous monitoring period 27/04/2010-23/04/2012, version 01 dated 06/01/2014
/21/	Gamesa Wind(Tianjing) Co., Ltd.: Nameplate of the equipment

5.1.2. Methodologies, tools and other guidance

/22/	Verified Carbon Standard: VCS Standard, version 4.0
/23/	Verified Carbon Standard: VCS Program Guide, version 4.0
/24/	Verified Carbon Standard: VCS Sectoral Scopes http://v-c-s.org/node/448
/25/	Verified Carbon Standard: Registration and Issuance Process, version 4.0
/26/	UNFCCC EB: Approved methodology, ACM0002, version 12.2.0

5.1.3. Persons interviewed

/27/	Mr. Yu Wentao, Plant Director of Anqiu Taipingshan Wind Power Co., Ltd. Mr. Wang Jiateng, Engineer of Anqiu Taipingshan Wind Power Co., Ltd. Mr. Li Gongded, Contact person of Anqiu Taipingshan Wind Power Co., Ltd. Ms. Zhao Xiaoli, Local villager Mr. Yang Dong, Local villager Mr. Zhang Xiaodong, Official of Local Environment Protection Bureau Ms. Ji Huiying, Project Manager of CGN Carbon Asset Management (Beijing) Co., Ltd

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

5.1.4. Table 1: Corrective Action Requests

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

5.1.5. Table 2: Clarification Requests

CL ID	Clarification Request	Response by Project Proponent	Verification Team Assessment
CL 01	Based on the site visit, and checking the monitoring plan of the registered CDM PDD, it is confirmed that monitoring parameter $EG_{export,y}$ is determined by readings from meters M1, M3, M4 and M5; and monitoring parameter $EG_{import,y}$ is determined by meter M1. However, the section 4.2 of the MR just mentions M3 as source of data. Thus, clarification is required.	The description in the MR is not adequate and clearly. $EG_{export,y}$ is calculated by electricity shares with the readings measured by M1, M3,M4 and M5. $EG_{import,y}$ is taken from the readings from M1 for conservativeness. The description has been revised in the updated MR.	OK. It has been revised and verified by CTI to be consistent with the MP. Therefore, CL 01 is closed.

CL ID	Clarification Request	Response by Project Proponent	Verification Team Assessment
CL 02	The calibration of all monitoring meters is missing in the MR, thus it is requested to clarify.	The information of all electricity meters on the calibration of monitoring instruments had been updated in the MR.	OK. It has been revised and verified by CTI. Therefore, CL 02 is closed.

5.1.6. Table 3: Forward Action Requests

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

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