



SHANDONG YISHUI TANGWANGSHAN WIND FARM PROJECT



Document Prepared By LGAI Technological Center, S.A. (Applus+ Certification)

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Summary:

LGAI Technological Center, S.A. (hereafter referred to as “Applus+ Certification”) has been commissioned by CGN Carbon Asset Management (Beijing) Co., Ltd to perform the verification of greenhouse gas emission reductions of the project activity “Shandong Yishui Tangwangshan Wind Farm Project” (VCS Ref. No. 1187, hereafter referred to as “the project activity”) reported in the monitoring report /1/ during monitoring period 12/05/2020 - 31/12/2021.

This monitoring period is the 1st monitoring period of 2nd crediting period under VCS scheme. The renewal of the crediting period of the project activity has been validated by CTI based on the VCS PD /3/ version 04.1 dated 05/11/2021 and reported in the validation report No. CTI/NB-2020-0927 /4/, version 02.0, completed on 05/11/2021. The validation of the validation of the renewal of crediting period is available at <https://registry.terra.org/app/projectDetail/VCS/1187>. The project activity was registered as a CDM project activity on 26/01/2012 under the UNFCCC with Ref. 5658 and renewed on 01/05/2019 which is available at <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>.

The project activity is a wind power project located at Yishui County, Shandong Province, P. R. China which is to use wind resource for electricity generation. The installed capacity of the project activity is 20.4 MW, consisting of 24 sets of wind turbines with unit capacity of 0.85 MW. The average annual power delivered to the grid by the project is expected to be 38,068.7 MWh. The project can reduce GHG emissions by replacing the electricity generated by fossil fuel fired power plants in North China Power Grid (NCPG). It's estimated that the proposed project could achieve GHG emission reductions of 31,996 tCO₂e annually during the 2nd crediting period.

The purpose and scope of this verification is to ensure that reported emission reductions are complete and accurate in accordance with applicable VCS standards and relevant UNFCCC requirements in order to be certified. A desk review and a site visit have been conducted to verify the data submitted in the monitoring report /1/. Applus+ Certification confirms the following has been reviewed:

- Monitoring plan included in the registered renewed VCS PD /3/ version 04.1 dated 05/11/2021;
- Validation report of renewal of crediting period /4/, report No. CTI/NB-2020-0927 version 02.0, completed on 05/11/2021 by CTI;

- Approved methodology, ACM0002 /7/, version 20.0;
- VCS standards version 4.2 and guidance version 4.1, as well as relevant UNFCCC requirements;
- All information and references relevant to the project activity's resulting in emission reductions.

During this verification, 1 Clarification Request was identified and satisfactorily closed related to the monitoring, implementation or operations of the project activity in relation to relevant VCS standards, guidance and UNFCCC requirements and relevant host party criteria and the applied baseline and monitoring methodology etc.

Applus+ Certification confirms that the project is implemented in accordance with the registered VCS PD /3/. The monitoring plan complies with the applied methodology ACM0002 /7/ version 20.0 and the monitoring has been carried out in accordance with the registered PD. The monitoring system is in place and the emission reductions are calculated without material misstatements. The level of assurance of the verification is reasonable. Our opinion relates to the projects GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information reviewed and evaluated Applus+ Certification confirms that the implementation of the project has resulted in 40,887 tCO₂e emission reductions during period 12/05/2020 - 31/12/2021.

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1 INTRODUCTION

1.1 Objective

LGAI Technological Center, S.A. (Applus+ Certification) has been commissioned by CGN Carbon Asset Management (Beijing) Co., Ltd to perform the verification of greenhouse gas emission reductions of the project activity “Shandong Yishui Tangwangshan Wind Farm Project” (VCS Ref. No. 1187) reported in the Monitoring Report /1/ during monitoring period 12/05/2020 - 31/12/2021.

LGAI Technological Center, S.A. (Applus+ Certification) as the verification body of the project activity has been accredited as a DOE by UNFCCC and also meets the competence requirements as set out in ISO 14065:2013.

The objective of verification is to have an independent review and ex post determination by a Validation and Verification Body (VVB) of the monitored reductions in GHG emissions that have occurred as a result of the registration of VCS project. Certification is the written assurance by the VVB that, during a specific time period, a proposed VCS project activity achieved the reductions in anthropogenic emissions by sources of GHGs as verified.

The objective of this verification/certification is to verify and certify emission reductions, reported for the “Shandong Yishui Tangwangshan Wind Farm Project” in China for the period 12/05/2020 - 31/12/2021.

1.2 Scope and Criteria

The verification scope is defined as an independent and objective review of the registered PD and PDD, the Project’s baseline study and Monitoring Report (MR) and other relevant documents. The information in these documents is reviewed against VCS Version 4.2 requirements, UNFCCC rules and associated interpretations.

The verification is not meant to provide any consulting towards the client. However, stated requests for forward actions and/or corrective actions may provide input for improvement of the Project monitoring towards reductions in the GHG emissions.

1.3 Level of Assurance

The verification report is based on the VCS-PD, the VCS Monitoring Report (MR), supporting evidences made available to the verifier and information collected through performing interviews and during the on-site assessment.

The verification conclusion is assured a reasonable level of assurance.

1.4 Summary Description of the Project

Project title	Shandong Yishui Tangwangshan Wind Farm Project
VCS reference number	1187
Project Participants	Yishui Tangwangshan Wind Power Co., Ltd. (Project Owner, host country, P. R. China)
Location of the project	Yishui County, Shandong Province, P. R. China Geographic coordinates: from 118.216667 E to 119.05 E, from 35.6 N to 36.216667 N Central geographic coordinates: 118.633334E, 35.808334N
Project start date	Construction start date: 02/11/2009 Operation start date: 12/05/2010
Version of VCS PD	version 04.1 dated 05/11/2021
Monitoring period	12/05/2020 - 31/12/2021
First monitoring report	Version 01, dated 16/03/2022
Final monitoring report	Version 04, dated 28/10/2022
Applied Methodology/Version	ACM0002, version 20.0
Scope/Technical Area	1/1.2

The project activity is a wind power project located at Yishui County, Shandong Province, P. R. China which is to use wind resource for electricity generation. The installed capacity of the project activity is 20.4 MW, consisting of 24 sets of wind turbines with unit capacity of 0.85 MW. The average annual power delivered to the grid by the project is expected to be 38,068.7 MWh. The project can reduce GHG emissions by replacing the electricity generated by fossil fuel fired power plants in North China Power Grid (NCPG). It's estimated that the proposed project could achieve GHG emission reductions of 31,996 tCO₂e annually during the 2nd crediting period.

This monitoring period is the 1st monitoring period of 2nd crediting period under VCS scheme. The renewal of the crediting period of the project activity has been validated by CTI based on the VCS PD /3/ version 04.1 dated 05/11/2021 and reported in the validation report No. CTI/NB-2020-

0927 /4/, version 02.0, completed on 05/11/2021. The validation of the validation of the renewal of crediting period is available at <https://registry.terra.org/app/projectDetail/VCS/1187>. The project activity was registered as a CDM project activity on 26/01/2012 under the UNFCCC with Ref. 5658 and renewed on 01/05/2019 which is available at <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>.

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2 VERIFICATION PROCESS

2.1 Method and Criteria

Verification was conducted using Applus+ Certification's procedures in line with the requirements specified in the VCS Standard version 4.2, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant UNFCCC requirements and applying standard auditing techniques.

Applus+ Certification completed a strategic review and risk assessment of the projects activities and processes in order to gain a full understanding of:

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

Applus+ Certification verified the implementation of the monitoring plan and the data presented in the Monitoring Report /1/ for the period in question. This involved a site visit and a desk review of the Monitoring Report. This Verification Report describes the findings of this assessment.

The information of the assessment team is included in below:

Assessment team

According to the sectoral scopes / technical area and experiences in the sectoral or national business environment, Applus+ Certification has composed a project assessment team in accordance with the appointment rules in Applus+ Certification. The composition of assessment team has to be approved by the Applus+ Certification ensuring that the required skills are covered by the team. The four qualification levels for team members that are assigned by formal appointment rules as below:

- Leader Auditor (LA)
- Auditor (A)/ Auditor Trainee (AiT)

- Technical Reviewer (TR)
- Technical Experts (TE)

Name	Qualification	Coverage of scope	Coverage of Technical Area	Host country experience
<i>Simon Shen</i>	<i>LA/TE</i>	<i>Y (1.2)</i>	<i>Y</i>	<i>Y</i>
<i>Denny Xue</i>	<i>TR</i>	<i>Y (1.2)</i>	<i>Y</i>	<i>Y</i>

Simon Shen (Master Degree in Thermal Energy Engineering, Bachelor Degree in Environmental Engineering) is a Lead Auditor appointed by Applus+ Certification for the GHG project assessment. He is based in Shanghai. He has several years of work experience in environmental protection field. Before he joined Applus+ Certification, he had been worked for TÜV SÜD as a GHG Validator/Assessment team and ISO 9001/14001 Lead Auditor for 3.5 years.

Denny Xue (Master's Degree in Environmental Engineering, Bachelor's Degree in Thermal Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+. Before he joined Applus+ LGAI, he has been working for Shanghai Chuanji Investment and Management which is a CDM consultancy company as a project manager for CDM project development.

2.2 Document Review

The VCS monitoring report /1/ version 01 dated 16/03/2022, Version 04 dated 28/10/2022 and the emission reduction calculations spreadsheet /2/, were assessed as part of the verification. In addition, the VCS PD /3/ version 04.1 dated 05/11/2021 in particular the baseline estimations and the monitoring plan, the VCS Validation Report of renewal of crediting period /4/ dated 05/11/2021, as well as relevant documents, were reviewed. A detailed document reviewed are listed in Appendix 1 of the report.

2.3 Interviews

The key personnel interviewed are summarized in the table below:

Interviewed personnel	Role	Organization	Subject
Mr. Li Jiandong	Project engineer	Yishui Tangwangshan Wind Power Co., Ltd.	Operation of the project activity; Implementation of the monitor plan of the project activity;
Mr. Li Gongde	Project Chief Leader	Yishui Tangwangshan Wind Power Co., Ltd.	Data collection and data achievement; Calibration of meters and equipment maintenance.
Ms. Wang Yue	Project Manager	CGN Carbon Asset Management (Beijing) Co., Ltd	Data collection and ER calculation.

2.4 Site Inspections

The assessment team performed the on-site verification (Yishui County, Shandong Province, P. R. China) on 19/05/2022. The interviewed personnel and objective are listed in above table.

2.5 Resolution of Findings

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

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

- Non-compliance with the monitoring plan or methodology are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient;
- Modifications to the implementation, operation and monitoring of the project activity has not been sufficiently documented by the project participants;
- Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions;
- Issues identified in a FAR during validation to be verified during verification or previous

verification(s) have not been resolved by the project participants.

The assessment team shall raise a Clarification Request (CL) if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met.

All CARs and CLs raised during verification shall be resolved prior to submitting a request for issuance.

There is no CARs and CLs raised for this monitoring period for the project.

2.5.1 Forward Action Requests

None FAR was raised during the verification process. Also there are no remaining from former validation.

2.6 Eligibility for Validation Activities

Not applicable as LGAI Technological Center, S.A. holds the accreditation for the validation and verification for projects under scope 1.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The project activity is registered as CDM project activity under the UNFCCC on 26/01/2012 with the Registration Ref. No. 5658. The CDM crediting period of the project starts on 01/03/2012 with a renewable crediting period of 3*7 years. By checking the registered VCS PD and site visit interview with project owner, it is confirmed that the project started operation on 12/05/2010 which is the project start date according to the requirement of VCS. A deviation has been identified for the crediting period of the Project. The project is registered 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 12/05/2010 to 29/02/2012 to 12/05/2010 to 11/05/2020, which lasts for 10 years. The project crediting period has been renewed to 12/05/2020 to 11/05/2030 which has been verified by the VCS Validation Report of renewal of crediting period /4/ dated 05/11/2021.

The project was registered as CDM project with Ref. 5658. However no CERs was issued under CDM scheme so far.

The project has been registered as VCS project with Ref. VCS 1187 and VCU's of 51,277 tCO₂e have been issued for the monitoring period from 12/05/2010-29/02/2012, 127,933 tCO₂e have been issued for the monitoring period from 01/03/2012-31/12/2015 and 127,991 tCO₂e have been issued for the monitoring period from 01/01/2016-11/05/2020.

Period	emission reductions(tCO ₂ e)	Scheme
12/05/2010-29/02/2012	51,277	VCS
01/03/2012-31/12/2015	127,933	VCS
01/01/2016-11/05/2020	127,991	VCS
Total	307,201	

The project activity is expected to achieve 40,877 tCO₂e of VCU's during this monitoring period.

The Project Activity does not participate in the other emissions trading program by checking

public information on Internet, interviewing with project owner and statement issued by project owner.

During the period from 12/05/2020 - 31/12/2021, the project would claim only for VCUs or CERs. But VCUs and CERs will not be claimed in the same period.

Therefore, Applus+ Certification consider the project is eligible to participate under the VCS Program as there is no double counting for the emission reduction during any period.

3.2 Methodology Deviations

Not applicable as no deviation for methodology.

3.3 Project Description Deviations

In the registered VCS PD, the crediting period is described as from 12/05/2010 to 29/02/2012. A deviation is requested for the crediting period in the registered VCS PD. The project is registered under VCS Standard Version 3.4 and completed validation before 19/03/2020. Thus, 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, so the first renewable crediting period of the project should be updated from “12/05/2010 to 29/02/2012” to “12/05/2010 to 11/05/2020”. Moreover, as the project is also registered as a CDM project with a seven year twice renewable project crediting period starting from 01/03/2012 and furthermore, the project has the lifetime of 20 years; it is not eligible for VCU issuance beyond 11/05/2030. The second crediting period is from 12/05/2020 to 11/05/2030. This monitoring period 12/05/2020 - 31/12/2021 falls under the 2nd crediting period.

Except the crediting period deviation, there were no other project description deviations identified by Applus+ Certification to this monitoring period. 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 VCS PD. Applus+ Certification confirms that the project is fully implemented in accordance with the project description and monitoring plan contained in registered VCS PD (version 04.1 dated 05/11/2021), and no other deviations for the project description during this monitoring period. Details refer to section 4.1.

3.4 Grouped Project

Not applicable as not a grouped project.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

By means of on-site visit, the assessment team confirms that all physical features of the proposed CDM project activity proposed in the registered VCS PD /3/ are in place and the PP has operated the project as per registered VCS PD /3/. The installed capacity of the project is 20.4 MW, consisting of 24 sets of wind turbines with unit capacity of 0.85 MW. The electricity generated is transmitted to the local Power Grid via a newly built transformer station, which was then exported to the NCPG. The project activity was expected to supply 38,068.7 MWh of electricity to the grid. The construction of the project started on 02/11/2009, the wind turbine of the project has been put into operation on 12/05/2010 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 /9/. 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 VCS PD. There are no changes on the key equipment and technology since the validation of the project. No special event which would affect the monitoring of the project has been observed during the monitoring period.

The electricity generated by the project activity is supplied to the NCPG. All the monitoring system in operation period is consistent with the description in the registered VCS PD. The control system at the power plant is automated and assures continuous operation, including monitoring on malfunction of equipment. By checking the monitoring records /10/, Applus+ Certification can confirm that no serious malfunction happened and the plant was under a normal operation as expected in this monitoring period.

Applus+ Certification confirms that the project was implemented in accordance with the project description contained in registered VCS PD. 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 VCS PD.

The project would contribute to sustainable development in as below:

- (1) By replacing electricity from fossil fuel power plants with renewable electricity, this project could reduce greenhouse gas emissions compared to the business-as-usual scenario;
- (2) Help to stimulate the growth of the wind power industry in China and promotion of advanced wind turbine manufacturing industry;
- (3) Create local employment opportunities during the construction and operation of the Project;
- (4) Stimulate the development of local tourism industry.

The technical parameters have been verified with the nameplates /9 / as below:

Item	Unit	Index
Type	-	G58-850kW
Rated capacity	kW	850
Number of blades		3
Rotor diameter	m	58
Cut-in speed	m/s	3.0
Rated wind speed	m/s	16
Cut-off speed	m/s	23
Height of hub	m	65
Rated voltage	V	690

The annual average emission reductions estimated in the registered VCS-PD is 31,996 tCO₂e, so the estimated amount of emission reductions for the corresponding 599 days (the duration of this monitoring period) are $599/365 \times 31,996 = 52,509$ tCO₂e, which is higher than the actual value of 40,887 tCO₂e.

Therefore, the assessment team confirmed the ER in this monitoring period is not overestimated.

The assessment team confirmed that there is no proposed or actual change to the project design during this monitoring period.

All required equipments and procedures are available and implemented in an appropriate manner.

All necessary monitoring instruments are installed. All required instruments including standby and operating procedures for the same have been implemented in an appropriate manner.

The project is completely operational and the same has been confirmed on-site. Neither mistakes nor malfunction on main meters have been observed during this monitoring period.

4.2 Safeguards

4.2.1 No Net Harm

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

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

4.2.2 Local Stakeholder Consultation

As per the registered CDM PDD, the local stakeholder's consultation was done in May 2008 through distributing questionnaires, which was designed to be easily filled in. 29 copies of questionnaire were distributed, and 28 out of 29 questionnaires received replies. 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 VCS PD.

The project owner has set out the mechanism for on-going communication with local stakeholders and the communications with local stakeholders are being carried out at periodic intervals.

Firstly, stakeholders were informed of the status and progress of the project through the bulletin board on the village committee, and their comments can be recorded in the village committee's complaint book. This information is fed back to the project proponent by the contact person for a timely response.

Secondly, stakeholders can communicate and give feedback directly to the project proponent at any time through the published phone number of contact person.

Finally, the contract person of project owner also meets local villagers to collect their comments and suggestions yearly.

During this monitoring period, the project carried out the communication with local stakeholders in line with the mechanism. Village committee's complaint book were quarterly checked by the contact person, and the contact person visited the villages in Aug 2021 to communicate with stakeholders. Meanwhile, the local authority has also conducted spot checks on the implementation of the project yearly. There are no negative comments received for the project during this monitoring period. In line with VCS requirements all the processed have been implemented to receive comments from local stakeholders as well as communicate with them.

All such conclusion has been verified through site visit and check with interviewees.

4.3 AFOLU-Specific Safeguards

Not applicable as non-AFOLU project.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

The monitoring has been carried out in accordance with the monitoring plan contained in the VCS PD /3/. All parameters were monitored and determined as per the monitoring plan which is listed in below table:

Data / Parameter:	$EG_{\text{facility},y}$		
Data unit:	MWh		
Description:	Quantity of net electricity generation supplied by the project to the Grid in year y.		
Purpose of the data:	Calculation of baseline emissions		
Parameter value:	Period	MWh	
	12/05/2020- 31/12/2020	17,414.03	
	01/01/2021- 31/12/2021	31,232.80	
	Total	48,646.83	
Source of data used:	Calculated according to $EG_{A,y}/(EG_{A,y} + EG_{B,y}) * EG_{\text{export},y} - EG_{\text{import},y}$ Note: A refers to project 1187, B refers to project 1189.		
Information flow:	$EG_{\text{export},y}$ and $EG_{\text{import},y}$ will be monitored by the main meter M1. The reading from the main meter M1 is first choice. When the main meter is out of order, the reading from the backup meter M2 will be used. The project operator is responsible for recording such data. Cross check the meter reading with sales receipts. Designated person records the readings of the main meter each month. The monthly cut-off time for electricity exported to the grid and imported from the grid by the project is at 24:00 on the last day in every month. Electricity supplied to the grid by Project B is measured by meter M4 and M5 installed at the Project B site. The accuracy of meter M1, M2, M3, M4 and M5 is no lower than 0.5s, and the calibration accuracy is once a year in line with the national rules. Also, sales receipts for the proposed project activity will be used for double checking following the requirement in the applied methodology. Monthly electricity exported to the grid and imported from the grid by the project is approved and signed off by the Manager before it is accepted and stored. The meter readings are also monitored and recorded on hourly basis and aggregated on monthly basis by the grid company. Electricity sales receipts of electricity exported to the grid and imported from the grid by the project are issued after the confirmation from the Grid Company and Project Developer. The net electricity supplied to grid by the project is calculated by the electricity exported to the grid minus the electricity imported from the grid.		

	The project developer will archive the data electronically until two years after the end of the crediting period, whichever occurs later.					
Monitoring method, frequency and equipments:	Continuously measured, and monthly recorded.					
Calibration:	The calibrations of two meters are carried out annually by Lin Yi Power Supply Company Energy Metering. The accreditation body is the qualified authority for the meters calibration accredited by Shandong Province Quality and Technology Supervision Bureau.					
	Meters	Type	Serial No.	Accuracy	Calibration date	Validity
	M1	DTSD3000	1305712953	0.5S	13/01/2020 13/01/2021	Yes
	M2	DL/T614	09070125900004	0.2S		Yes
	M3	DL/T614	09090151400332	0.5S		Yes
	M4	DL/T614	09090151400334	0.5S		Yes
	M5	DL/T614	09090151400336	0.5S		Yes
	Calibration records and accreditation certificates/12/ have been verified by the verification team. The accuracy of meters is verified to comply with the requirement in the registered VCS PD and in compliance with the Technical administrative code of electric energy metering (DL/T448-2016)/19/. The calibration frequency of meters is annual, which is consistent with the registered VCS PD. Based on the site visit and by checking the calibration reports, the assessment team found the calibration frequency of these meters is annual, which is in line with the registered CDM, Applus+ Certification confirms that:					
	– Both 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.					
	QA/QC procedure:	The meter M3 at the project site and meters M1, M2, M4 as well as M5 will be calibrated once a year according to the national rules. Meter readings from meters M1 or M2 will be used for cross checking against sales receipts. Conservative values will be adopted for ERs calculation.				

Data / Parameter:	$EG_{\text{export},y}$		
Data unit:	MWh		
Description:	Total electricity supplied to the grid by the proposed Project (Project A) and Project B during year y.		
Purpose of the data:	Calculation of baseline emissions		
Parameter value:	Period	MWh	
	12/05/2020- 31/12/2020	69,508.56	
	01/01/2021- 31/12/2021	123,837.12	
	Total	193,345.68	
Source of data used:	Bidirectional electricity meter reading of Main meter M1.		
Information flow:	$EG_{\text{export},y}$ will be monitored by the main meter M1. The reading from the main meter M1 is first choice. When the main meter is out of order, the reading from the backup meter M2 will be used. The project operator is responsible for recording such data. Cross check the meter reading with sales receipts. Designated person records the readings of the main meter each month. The monthly cut-off time for electricity exported to the grid by the project is at 24:00 on the last day in every month. The accuracy of meter M1, M2 is no lower than 0.5s, and the calibration accuracy is once a year in line with the national rules. Also, sales receipts for the proposed project activity will be used for double checking following the requirement in the applied methodology. Monthly electricity exported to the grid by the project is approved and signed off by the Manager before it is accepted and stored. The meter readings are also monitored and recorded on hourly basis and aggregated on monthly basis by the grid company. Electricity sales receipts of electricity exported to the grid by the project are issued after the confirmation from the Grid Company and Project Developer. The project developer will archive the data electronically until two years after the end of the crediting period, whichever occurs later.		
Monitoring method, frequency and equipments:	Continuously measured, and monthly recorded.		
Calibration:	The calibrations of two meters are carried out annually by Lin Yi Power Supply Company Energy Metering. The accreditation body is the qualified authority for the meters calibration accredited by Shandong Province Quality and Technology Supervision Bureau.		

	Meters	Type	Serial No.	Accuracy	Calibration date	Validity
	M1	DTSD3000	1305712953	0.5S	13/01/2020	Yes
	M2	DL/T614	09070125900 004	0.2S	13/01/2021	Yes
	Calibration records and accreditation certificates/12/ have been verified by the verification team. The accuracy of meters is verified to comply with the requirement in the registered VCS PD and in compliance with the Technical administrative code of electric energy metering (DL/T448-2016)/19/. The calibration frequency of meters is annual, which is consistent with the registered VCS PD. Based on the site visit and by checking the calibration reports, the assessment team found the calibration frequency of these meters is annual, which is in line with the registered CDM, Applus+ Certification confirms that: - Both 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.					
QA/QC procedure:	The main meter M1 and backup meter M2 will be calibrated once a year according to the national standards. Electricity supplied to the grid will be double checked according to sales receipts.					

Data / Parameter:	EG _{import,y}		
Data unit:	MWh		
Description:	Electricity imported from the grid by the Project (Project A) and Project B during year y.		
Purpose of the data:	Calculation of baseline emissions		
Parameter value:	Period	MWh	
	12/05/2020- 31/12/2020	362.56	
	01/01/2021- 31/12/2021	512.16	
	Total	874.72	

Source of data used:	Bidirectional electricity meter reading of M1. The reading from the main meter M1 is first choice. When the main meter is out of order, the reading from the backup meter M2 will be used.																							
Information flow:	EG_{import,y} will be monitored by the main meter M1. The reading from the main meter M1 is first choice. When the main meter is out of order, the reading from the backup meter M2 will be used. The project operator is responsible for recording such data. Cross check the meter reading with sales receipts. Designated person records the readings of the main meter each month. The monthly cut-off time for electricity imported from the grid by the project is at 24:00 on the last day in every month. The accuracy of meter M1, M2 is no lower than 0.5s, and the calibration accuracy is once a year in line with the national rules. Also, sales receipts for the proposed project activity will be used for double checking following the requirement in the applied methodology. Monthly electricity imported from the grid by the project is approved and signed off by the Manager before it is accepted and stored. The meter readings are also monitored and recorded on hourly basis and aggregated on monthly basis by the grid company. Electricity sales receipts of electricity imported from the grid by the project are issued after the confirmation from the Grid Company and Project Developer. The project developer will archive the data electronically until two years after the end of the crediting period, whichever occurs later.																							
Monitoring method, frequency and equipments:	Continuously measured, and monthly recorded.																							
Calibration:	The calibrations of two meters are carried out annually by Lin Yi Power Supply Company Energy Metering. The accreditation body is the qualified authority for the meters calibration accredited by Shandong Province Quality and Technology Supervision Bureau. <table border="1"> <thead> <tr> <th>Meters</th> <th>Type</th> <th>Serial No.</th> <th>Accuracy</th> <th>Calibration date</th> <th>Validity</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>DTSD3000</td> <td>1305712953</td> <td>0.5S</td> <td>13/01/2020</td> <td>Yes</td> </tr> <tr> <td>M2</td> <td>DL/T614</td> <td>09070125900004</td> <td>0.2S</td> <td>13/01/2021</td> <td>Yes</td> </tr> </tbody> </table> Calibration records and accreditation certificates/12/ have been verified by the verification team. The accuracy of meters is verified to comply with the requirement in the registered VCS PD and in compliance with the Technical administrative code of electric energy metering (DL/T448-2016)/19/. The						Meters	Type	Serial No.	Accuracy	Calibration date	Validity	M1	DTSD3000	1305712953	0.5S	13/01/2020	Yes	M2	DL/T614	09070125900004	0.2S	13/01/2021	Yes
Meters	Type	Serial No.	Accuracy	Calibration date	Validity																			
M1	DTSD3000	1305712953	0.5S	13/01/2020	Yes																			
M2	DL/T614	09070125900004	0.2S	13/01/2021	Yes																			

	calibration frequency of meters is annual, which is consistent with the registered VCS PD. Based on the site visit and by checking the calibration reports, the assessment team found the calibration frequency of these meters is annual, which is in line with the registered CDM, Applus+ Certification confirms that: - Both 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.
QA/QC procedure:	Meter readings from the meter M1 and M2 will be directly applied for cross checking of electricity purchased from the grid by the proposed project. Electricity purchased from the grid will be double checked against electricity sales receipts. Conservative values will be adopted for ERs calculation.

Data / Parameter:	EG _{A,y}		
Data unit:	MWh		
Description:	Quantity of electricity supplied to the grid by Project A (the project) in year y.		
Purpose of the data:	Calculation of baseline emissions		
Parameter value:	Period	MWh	
	12/05/2020- 31/12/2020	17,910.48	
	01/01/2021- 31/12/2021	31,975.72	
	Total	49,886.20	
Source of data used:	The readings of the meter M3 installed at the low voltage side of 35kV/110kV substation on the project site.		
Information flow:	EG_{A,y} will be monitored by the main meter M3. Cross check the meter reading with sales receipts. Designated person records the readings of the main meter each month. The monthly cut-off time for electricity exported to the grid by the project is at 24:00 on the last day in every month. The accuracy of meter M3 is no lower than 0.5s, and the calibration accuracy is once a year in line with the national rules. Monthly electricity exported to the grid by the project is approved and signed off by the Manager before it is accepted and stored. The meter readings are also monitored and recorded on hourly basis and aggregated on monthly basis by the grid company. Electricity sales receipts of electricity exported to		

	the grid by the project are issued after the confirmation from the Grid Company and Project Developer. The project developer will archive the data electronically until two years after the end of the crediting period, whichever occurs later.												
Monitoring method, frequency and equipments:	Continuously measured, and monthly recorded.												
Calibration:	The calibrations of two meters are carried out annually by Lin Yi Power Supply Company Energy Metering. The accreditation body is the qualified authority for the meters calibration accredited by Shandong Province Quality and Technology Supervision Bureau.												
	<table><tr><td>Meters</td><td>Type</td><td>Serial No.</td><td>Accuracy</td><td>Calibration date</td><td>Validity</td></tr><tr><td>M3</td><td>DL/T614</td><td>09090151400332</td><td>0.5S</td><td>13/01/2020 13/01/2021</td><td>Yes</td></tr></table>	Meters	Type	Serial No.	Accuracy	Calibration date	Validity	M3	DL/T614	09090151400332	0.5S	13/01/2020 13/01/2021	Yes
	Meters	Type	Serial No.	Accuracy	Calibration date	Validity							
	M3	DL/T614	09090151400332	0.5S	13/01/2020 13/01/2021	Yes							
Calibration records and accreditation certificates/12/ have been verified by the verification team. The accuracy of meters is verified to comply with the requirement in the registered VCS PD and in compliance with the Technical administrative code of electric energy metering (DL/T448-2016)/19/. The calibration frequency of meters is annual, which is consistent with the registered VCS PD. Based on the site visit and by checking the calibration reports, the assessment team found the calibration frequency of these meters is annual, which is in line with the registered CDM, Applus+ Certification confirms that: - Both 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.													
QA/QC procedure:	The metering equipment at the substation are calibrated once a year according to the national standards.												

Data / Parameter:	EG _{B,y}
Data unit:	MWh

Description:	Quantity of electricity supplied to the grid by Project B in year y.				
Purpose of the data:	Calculation of baseline emissions				
Parameter value:	Period		MWh		
	12/05/2020- 31/12/2020		52,124.52		
	01/01/2021- 31/12/2021		92,762.60		
	Total		144,887.12		
Source of data used:	Readings of electricity meters M4 and M5 installed at the site of project B.				
Information flow:	EG_{B,y} will be monitored by the main meter M4, M5. Cross check the meter reading with sales receipts. Designated person records the readings of the main meter each month. The monthly cut-off time for electricity exported to the grid by the project is at 24:00 on the last day in every month. The accuracy of meter M4 and M5 is no lower than 0.5s, and the calibration accuracy is once a year in line with the national rules. Monthly electricity exported to the grid by the project is approved and signed off by the Manager before it is accepted and stored. The meter readings are also monitored and recorded on hourly basis and aggregated on monthly basis by the grid company. Electricity sales receipts of electricity exported to the grid by the project are issued after the confirmation from the Grid Company and Project Developer. The project developer will archive the data electronically until two years after the end of the crediting period, whichever occurs later.				
Monitoring method, frequency and equipments:	Continuously measured, and monthly recorded.				
Calibration:	The calibrations of two meters are carried out annually by Lin Yi Power Supply Company Energy Metering. The accreditation body is the qualified authority for the meters calibration accredited by Shandong Province Quality and Technology Supervision Bureau.				
	Meters	Type	Serial No.	Accuracy	Calibration date
	M4	DL/T614	09090151400334	0.5S	13/01/2020
	M5	DL/T614	09090151400336	0.5S	13/01/2021
	Calibration records and accreditation certificates/12/ have been verified by the verification team. The accuracy of meters is verified to comply with the requirement in the registered VCS PD and in compliance with the Technical				

	administrative code of electric energy metering (DL/T448-2016)/19/. The calibration frequency of meters is annual, which is consistent with the registered VCS PD. Based on the site visit and by checking the calibration reports, the assessment team found the calibration frequency of these meters is annual, which is in line with the registered CDM, Applus+ Certification confirms that: – Both 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.
QA/QC procedure:	The metering equipment at the substation is calibrated once a year according to the national standards.

VERRA has issued project review report in below concerns:

Shared meters must be explained, and electricity allocation justified.

Issue

1. Meter (M) naming and serial numbers are reported inconsistently between Project 1187 and 1189's MR.

Project 1187's MR indicates that M3 is used by Project 1187 and M4 & M5 are used by Project 1189; while Project 1189's MR indicates that 1187 uses M5 and M3 & M4 are used by Project 1189.

2. The MR does justify why all 5 meters were used, and does not explain how the measured electricity generation was allocated between projects and how the PP ensured that double counting did not occur.

Action item

The VVB must ensure that Section 4.3 of the MR and applicable sections in the verification report are updated to:

- 1) Revise the provided monitoring equipment table so that the meters are named consistently between shared projects (1189 & 1187).
- 2) Describe how and why the measured electricity generation was allocated between projects and double counting was avoided.

The VVB must also ensure that an updated ERR calculations spreadsheet is provided which includes an additional tab showing the meters and actual electricity allocations between projects.

VVB's response is as below:

1. First of all, it should be clear that the meter naming (Mx) is not the serial number, it is just the sequential number for indicate the difference of 5 meters' location. Please note that the meters used in both projects are independently numbered with M1-M5. It is quite reasonable in each project which has connection with the other project, the project itself was named with "project A" and other project was named with "project B". Meanwhile, it is also reasonable that the meter used in this project activity (Project 1187) was named with prior number. This is why the meter used in this project (Project 1187) was named with M3, and the meters used in the other project (Project 1189) was named with M4 and M5. The serial number is coincident depending on location of the meter and its functionalities. That means, the meter (M3, with s/n 9090151400332) in project 1187 is the same one (M5, with s/n 9090151400332) in project 1189. Please see below the correspondence between M1-M5 indicated with serial number in each project.

Project 1187		Project 1189	
Meters	Serial No.	Meters	Serial No.
M1	1305712953	M1	1305712953
M2	9070125900004	M2	9070125900004
M3	9090151400332	M3	9090151400334
M4	9090151400334	M4	9090151400336
M5	9090151400336	M5	9090151400332

Please note that whatever the sequential number of the meters were named, the accuracy of electricity monitoring is not affected. The name of the meters did neither affect the accuracy of ERs calculation in previous monitoring period, nor affect the accuracy in this monitoring period.

2. The quantity of electricity supplied to the grid by Project 1187 in year y (i.e. $EG_{A,y}$) is sourced from the readings of the meter (Serial No. 09090151400332) installed at the site of project 1187. And the quantity of electricity supplied to the grid by Project 1189 in year y. (i.e. $EG_{B,y}$) is sourced from the readings of the meters (Serial No.09090151400334 and 09090151400336) installed on the 35kV transmission lines at the site of project 1189. However, the readings of M3/M4/M5 were not the data at the side of grid company, so it was not conservative to use $EG_{A,y}$ directly. Thereby in the monitoring plan of PDD, project A and project B shared the electricity monitored by meter M1 installed at the side of grid company. The formula of sharing is described as below:

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

Where:

$EG_{\text{facility},y}$ = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y.

$EG_{\text{export},y}$ = Total electricity supplied to the grid by the proposed Project (Project A) and Project B during year y.

$EG_{\text{import},y}$ = Electricity imported from the grid by the Project (Project A) and Project B during year y.

$EG_{A,y}$ = Quantity of electricity supplied to the grid by the Project (Project A) in year y.

$EG_{B,y}$ = Quantity of electricity supplied to the grid by Project B in year y.

Please note that the monitoring plan has been validated and approved by VERRA. So no double counting occurred in calculation of ERs.

Please note that in this project MR, “A” refers to the project 1187. However in the MR of project 1189, project 1187 is referred to with “B”.

The calculation of the ERs is correct so it is not necessary to revised the ERs spreadsheet.

Parameters available at validation stage:

Below data has been verified against the data sources and the PDD.

Parameter title	Description	Data	Source
$EF_{\text{grid},\text{CM},y^*}$	Baseline emission factor of NCPG in the monitoring period.	0.8405	Notification on 2017 baseline emission factors for regional power grids in China, issued by China /14/.

* $EF_{\text{grid},\text{CM},y}$ is not directly available in the registered PDD but calculated based on the ex-ante data fixed in the registered PDD.

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

The monitoring has been carried out in accordance with registered VCS PD /3/ version 04.1 dated 05/11/2021.

As a result of verification of the ER calculation process, the assessment team confirmed that all the parameters required for the determination of the emission reductions have been included in the MR Report and ER Calculation Spreadsheet /2/ and are consistent with the applied methodology ACM0002 version 20.0 and the monitoring plan. The parameters are complete in this monitoring period.

Applus+ Certification 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 (BE_y) and project emissions (PE_y):

$$ER_y = BE_y - PE_y$$

Baseline emissions:

Baseline Emissions are calculated by multiplying the ex-ante Baseline Emission factor by annual power generation.

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

Where:

BE_y = Baseline emissions in year y (tCO_2/yr)

$EG_{\text{facility},y}$ = Quantity of net electricity generation supplied to the grid by the Project in year y. (MWh)

$EF_{\text{grid},\text{CM},y}$ = Combined margin emission factor for grid connected power generation in year y (tCO_2/MWh).

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

Where:

$EG_{\text{facility},y}$ = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y.

$EG_{\text{export},y}$ = Total electricity supplied to the grid by the proposed Project (Project A) and Project B during year y.

$EG_{\text{import},y}$ = Electricity imported from the grid by the Project (Project A) and Project B during year y.

$EG_{A,y}$ = Quantity of electricity supplied to the grid by the Project (Project A) in year y.

$EG_{B,y}$ = Quantity of electricity supplied to the grid by Project B in year y.

Project emissions:

As statement in ACM0002 (version 20.0), for the wind power activities, the project emissions from the project are not considered. Hence, PE_y during the monitoring period from 12/05/2020 - 31/12/2021 is considered as zero.

Leakages:

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

After verifying the reported figures with the raw data sources, it's confirmed that the values of the parameters from the raw data sources are consistent with those quoted in the ER Calculation Spreadsheet and the MR Report. The verification process for the same has been clearly described above in section 4.4 of the report.

The management procedure has been verified by the assessment team. Yishui Tangwangshan 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 procedure /8/, including the organization structure with the responsibilities, personnel competencies, monitoring procedures and monitoring management. By interview with the staff and check records /9/ during on-site visit, it can be confirmed that the monitoring management system is implemented following the project management procedure.

4.6 Non-Permanence Risk Analysis

Not applicable as a renewable project.

5 VERIFICATION CONCLUSION

Applus+ Certification has been commissioned by CGN Carbon Asset Management (Beijing) Co., Ltd to perform the verification of greenhouse gas emission reductions of the project activity “Shandong Yishui Tangwangshan Wind Farm Project” (VCS Ref. No. 1187).

The management of Yishui Tangwangshan Wind Power Co., Ltd. is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project’s Monitoring Plan in the registered VCS PD /3/ dated 05/11/2021.

Our verification approach was based on the requirements as defined under the applicable VCS standards 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 VCS PD;
- the monitoring plan in the registered VCS PD is as per the applied methodology;
- the monitoring complies with the registered VCS PD;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS 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.

In our opinion, the GHG emission reductions for “Shandong Yishui Tangwangshan Wind Farm Project” during the monitoring period 12/05/2020 - 31/12/2021 as reported in Monitoring Report, prepared on the basis of the project’s Monitoring Plan are fairly stated. Based on the information we have seen and evaluated, we confirm the following statement:

Verification period: From 12/05/2020 - 31/12/2021. Verified GHG emission reductions or removals in the above reporting 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)
12/05/2020-31/12/2020	14,636	0	0	14,636
01/01/2021-31/12/2021	26,251	0	0	26,251
Total	40,887	0	0	40,887

APPENDIX 1: REFERENCE LIST

1. Monitoring report, version 01, dated 16/03/2022; Version 04, dated 28/10/2022
2. ER calculation spreadsheet
3. Registered CDM PDD, version 3.0, dated 08/01/2019;
Registered VCS PD, version 04.1 dated 05/11/2021
4. Validation report of renewal of crediting period /4/, report No. CTI/NB-2020-0927 version 02.0, completed on 05/11/2021 by CTI
5. VCS standard version 4.2, dated on 20/01/2022
6. Statement issued by project owner
7. Approved methodology ACM0002, version 20.0
8. CDM Monitoring procedure
9. Nameplate of the equipment
10. Meter Reading Record (MRRs) for Meters
11. Electricity Transaction Notes covering the monitoring period
12. Calibration certificates of meters covering the whole monitoring period issued by Lin Yi Power Supply Company Energy Metering
13. Accreditation certificates for Electric Energy Measurement Centre of Gansu Electric Power Corporation issued by Shandong Province Quality and Technology Supervision Bureau
14. Notification on 2017 baseline emission factors for regional power grids in China issued by China DNA

APPENDIX 2: FINDINGS

Table 1. Remaining FAR from validation and/or previous verifications

FAR ID	n/a	Section no.	n/a	Date:
Description of FAR				
n/a				
Project participant response				Date:
n/a				
Documentation provided by project participant				
n/a				
VVB assessment				Date:
n/a				

Table 2. CL from this verification

CL ID	1	Section no.	4.2	Date: 23/05/2022
Description of CL				
Please include the calibration information of the meters in the MR. e.g. the installation place, accuracy, calibration date and validity etc.				
Project participant response				Date: 25/05/2022
Relevant supplements have been made in the MR, please seeing the MR (version 02 dated 24/05/2022) for details.				
Documentation provided by project participant				
<i>Updated MR</i>				
VVB assessment				Date: 03/06/2022
The assessment team confirmed the calibration information has been updated in the revised MR which is in line with the calibration records. Thereby the assessment team closed the CL.				

Table 3. CAR from this verification

CAR ID	<i>n/a</i>	Section no.	<i>n/a</i>	Date: 15/04/2022
Description of CAR				
<i>n/a</i>				
Project participant response				Date:
<i>n/a</i>				
Documentation provided by project participant				
<i>n/a</i>				
VVB assessment				Date:
<i>n/a</i>				