



VERIFICATION REPORT FOR
GUOHUA TONGLIAO KEZUO ZHONGQI
PHASE I 49.5 MW WIND FARM PROJECT



Document Prepared by China Classification Society Certification Co.,
Ltd.

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Summary:

China Classification Society Certification Co., Ltd. (hereafter referred to as “CCSC”) has been commissioned by Guohua Energy Investment Co., Ltd. to perform the verification of greenhouse gas emission reductions of the project activity “Guohua Tongliao Kezuo Zhongqi Phase I 49.5 MW Wind Farm Project” (UNFCCC Ref. No. 4495, VCS project ID: 1310, hereafter referred to as “the project activity”) reported in the monitoring report during monitoring period 01/11/2018 to 31/07/2022.

The verification scope is defined as a periodic independent and objective review and ex-post determination by the Designated Operational Entity of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases: i) desk review of the project design and the baseline and monitoring plan; ii) follow-up on-site visit and interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted using CCSC internal procedures.

No Corrective Action Request (CAR) and three Clarification Requests (CL) were raised in the verification process and successfully closed upon the project proponent taken actions and submitted the revised monitoring report and supporting evidence. No Forward Action Request (FAR) was raised during this verification.

In summary, CCSC confirms that the Project is implemented as planned and described in the validated and approved CDM-PDD and the renewed VCS-PD of the 2nd crediting period, which can be found on the VCS project webpage <https://registry.verra.org/app/projectDetail/VCS/1310>. Actual monitoring activities complied with the monitoring plan. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the Project reduces GHG emission. The GHG

emission reduction is calculated without material misstatements, and the emission reductions verified totalize 306,564 tons of CO₂e for the monitoring period.

Our opinion relates to the Project's GHG emissions and the resulting GHG emission reductions viz. Verified Carbon Units (VCUs) reported are based on the valid project baseline, monitoring plan and associated documents. Based on the evidence and information that are considered necessary to guarantee that GHG emission reductions are appropriately calculated, CCSC confirms following statement:

Vintage	BE (tCO ₂)	PE (tCO ₂)	LE (tCO ₂)	ER (tCO ₂)
2018 (01/11/2018 to 31/12/2018)	11,494	0	0	11,494
2019 (01/01/2019 to 31/12/2019)	74,287	0	0	74,287
2020 (01/01/2020 to 31/12/2020)	86,090	0	0	86,090
2021 (01/01/2021 to 31/12/2021)	87,875	0	0	87,875
2022 (01/01/2022 to 31/07/2022)	46,818	0	0	46,818
Total	306,564	0	0	306,564

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1 INTRODUCTION

1.1 Objective

Guohua Energy Investment Co., Ltd. has commissioned Classification Society Certification Company (hereafter referred to as “CCSC”) to verify the emission reductions of the Verified Carbon Units (VCU) of Guohua Tongliao Kezuo Zhongqi Phase I 49.5 MW Wind Farm Project (hereafter referred to as “the Project”), which is located in the east of Kezuo Zhong Qi, Tongliao City, Inner Mongolia, P.R. China for the period from 01/11/2018 to 31/07/2022.

CCSC as the validation/verification body (VVB) of the Project has been accredited as a DOE by UNFCCC and also meets the competence requirements as set out in ISO 14065.

The objective of verification is to verify the reported voluntary emission reductions generated by the Project for the period from 01/11/2018 to 31/07/2022 and to confirm that actual monitoring systems and procedures are in compliance with that described in the monitoring plan and the additional requirements stated by Verra.

1.2 Scope and Criteria

The verification scope is defined as an independent and objective review of the registered CDM-PDD and the renewed VCS-PD of the 2nd crediting period, the Project’s baseline study and Monitoring Report (MR) and other relevant documents. The information in these documents is reviewed against VCS Version 4.3 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

CCSC has undertaken a reasonable assurance engagement in accordance with VCS version 4.3. It requires a reasonable level of assurance in verification that GHG assertions are free of material errors, omissions and misrepresentations. The verification conclusion is based on the VCS-MR, CDM-PDD and the renewed VCS-PD of the 2nd crediting period, supporting evidences made available to the verifier and information collected through performing interviews and during the on-site inspection.

1.4 Summary Description of the Project

Project title	Guohua Tongliao Kezuo Zhongqi Phase I 49.5 MW Wind Farm Project
UNFCCC reference number	4495
VCS reference number	1310
Crediting period (VCS)	1 st crediting period: 16/01/2009 to 15/01/2019 (10 years) 2 nd crediting period: 16/01/2019 to 15/01/2029 (10 years)
Monitoring period	01/11/2018 to 31/07/2022, consisting of two periods: 01/11/2018 to 15/01/2019, covered in the 1 st crediting period 16/01/2019 to 31/07/2022, covered in the 2 nd crediting period
Applied Methodology/Version	1 st crediting period: ACM0002 version 11 Consolidated baseline methodology for grid-connected electricity generation from renewable sources 2 nd crediting period: ACM0002 version 20.0 Grid-connected electricity generation from renewable sources
Scope/Technical Area	Scope 1 / TA 1.2
UNFCCC link:	https://cdm.unfccc.int/Projects/DB/DNV-CUK1297673136.16/view
VCS link:	https://registry.verra.org/app/projectDetail/VCS/1310
Project proponent	Guohua (Tongliao) wind Power Co., Ltd (Project Owner, host country: P. R. China)
Location of the project	Located in the east of Kezuozhong Qi, Tongliao City, Inner Mongolia, P.R. China Geographic coordinates: The geographic coordinates of the project: 122°57' east and 41°13' north

The Guohua Tongliao Kezuo Zhongqi Phase I 49.5 MW Wind Farm Project (hereafter referred to as the project) developed by Guohua (Tongliao) wind Power Co., Ltd (hereafter referred to as the project proponent) is a wind power project located in the east of Kezuozhong Qi, Tongliao City, Inner Mongolia, P.R. China. The total installed capacity of the Project is 49.5MW consisting of 33 sets of wind turbine with unit capacity of 1.5MW. The project started construction on 10/10/2007, and the first wind turbine started operation 16/01/2009. The electricity generated by the project is sold to the Northeast China Power Grid. The expected annual net electricity supply is 108,830 MWh. The annual amount of emission reductions are expected to be 111,877 tCO₂e over the 1st crediting period and 99,459 tCO₂e over the 2nd crediting period.

2 VERIFICATION PROCESS

2.1 Method and Criteria

The overall verification, from Contract Review to Validation Report & Opinion, was conducted using CCSC internal procedures. CCSC verified the information contained in the documents reviewed against the requirements set in VCS Standard Version 4.3, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant UNFCCC requirements and applying standard auditing techniques.

2.2 Document Review

Verification was conducted using CCSC's procedures in line with the requirements specified in the VCS Standard version 4.3, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant UNFCCC requirements and applying standard auditing techniques.

The Monitoring Report (VCS-MR) submitted by Guohua Energy Investment Co., Ltd., the registered CDM Project Design Document (CDM-PDD) and the renewed VCS-PD of the 2nd crediting period, and additional background documents related to the project design and baseline, i.e. country Law, validation report, Approved methodology, Clarifications on Validation Requirements to be Checked by a certified validation body were reviewed.

Furthermore, crosschecks were made between information provided in the CDM-PDD and the renewed VCS-PD of the 2nd crediting period, and information from sources other than those used.

2.3 Interviews

The follow-up interview was conducted the physical site visit on 27/10/2022 by Mr. Tan Wenbin (Team Leader) and Ms. Tian Peili (Trainee) from CCSC, which is focused on the issues identified during the desk review. The main topics of the interviews are summarized in Table 1.

Table 1. Interview topics

Interviewed Organization and Persons	Interview Topics
Guohua Tongliao Kezuo Zhongqi Phase I 49.5 MW Wind Farm Project Mr. Zhang Xiaolong, Director of the project owner Mr. Sun Jia, Operation manager of the plant	<ul style="list-style-type: none"> ☞ Project background information ☞ Project technology, operation, maintenance and monitoring capability. ☞ Project monitoring and management plan. ☞ The evidences of construction status and operation of key equipment, parameters monitoring and data processing activities, monitor equipment and calibration. ☞ Monitoring data. ☞ Quality Management; organizational structure, responsibilities and competencies; Internal QA/QC Management procedures and document control. ☞ Compliance with National Laws and Regulations.
Guohua Energy Investment Co., Ltd. Mr. HU Weiping, Project manager	<ul style="list-style-type: none"> ☞ Applicability of selected methodology. ☞ Baseline determination. ☞ Emission reductions calculation.
Local stakeholders: Ms. Zhao Weili, Local resident Mr. Bao Dawei, Local resident Mr. Zhao Qiang, Local resident	<ul style="list-style-type: none"> ☞ The process and participation of the stakeholder consultation ☞ The environmental and social impacts of the project ☞ Any complaints by the local stakeholders and the implementation of the mitigation measures

2.4 Site Inspections

The assessment team performed the physical on-site verification on 27/10/2022. Site inspection was conducted as follows:

Duration of on-site inspection: 27/10/2022				
No.	Activity performed on-site	Site location	Date	Team member
1.	Open meeting - Scope of work - VCS rules and regulations - Verification methodology/tool/guideline - Timeframe - Procedures for verification - CCSC internal approval process - Confidentiality	project site	27/10/2022	Mr. Tan Wenbin Ms. Tian Peili

2.	Management interview - Implementation & Operation - Monitoring System - Information flow - Management & Operation Procedure - Local stakeholder consultation - Sustainable development contribution	project site	27/10/2022	Mr. Tan Wenbin Ms. Tian Peili
3.	Site visit - Inspection of installations (Turbines, Centre control room, On-site Meters, etc.) - Interviews about operation procedures, meter reading, training, etc.	Project site	27/10/2022	
4.	Documents review - Implementation - Calibration - QA/QC procedures - Qualification & Training - Monitoring records - Cross-check data - ER calculations	Project site	27/10/2022	
5.	Close meeting - Summary of findings - Follow-up actions	Project site	27/10/2022	

The interviewed personnel and objective are listed in above table.

Through onsite inspection, the verification can confirm that the project is implemented as planned and described in the validated CDM-PDD and the renewed VCS-PD of the 2nd crediting period. Actual monitoring activities complied with the monitoring plan. Installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately. The monitoring system is in place and the project reduces GHG emission.

2.5 Resolution of Findings

The objective of this phase of the validation is to resolve issues that require further elaboration, research or expansion prior to CCSC's positive conclusion on the project design.

A Corrective Action Request (CAR) is raised, if one of the following situations occurs:

- (a) The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable, verifiable and additional emission reductions;
- (b) The applicable VCS requirements have not been met;
- (c) There is a risk that emission reductions cannot be monitored or calculated.

A Clarification Request (CL) is raised, if information is insufficient or not clear enough to determine whether the applicable VCS requirements have been met.

A Forward Action Request (FAR) may also be raised during validation, to identify issues related to project implementation that require review during the first verification of the project activity.

To guarantee the transparency of the validation process, a summary of each finding, including the issues raised, the response(s) provided by the project proponent, and the final conclusions and any resulting changes to project documents are documented in the Appendix A. No CAR, three CLs and no FAR were raised and successfully closed in this verification.

2.5.1 Forward Action Requests

No FAR was raised during the verification process. Also there are no remaining from former verification and validation.

2.6 Eligibility for Validation Activities

Not applicable as China Classification Society Certification Co., Ltd. holds the accreditation for the validation and verification for projects under scope 1.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

Through reviewing the registered CDM-PDD and validation report at UNFCCC website, it was validated that the project has also been registered as a CDM project with reference No. 4495. By checking <https://registry.terra.org/app/projectDetail/VCS/1310>, it is confirmed that the project also registered as a VCS project. The project does not participate in the other emissions trading program by checking public information on Internet and interviewing with project owner, and it is confirmed by the verification team that the project is not registered as a CCER project in China. The project would claim for either CERs or VCUs, however CERs and VCUs would not been claimed together in the same period confirmed by checking statement issued by project owner.

The verification team reviewed issuance information in VCS/CDM registry system, and confirmed that GHG Emission Reductions Credits have been issued as follows:

Table 2. List of GHG emission reduction credits issued

Monitoring period	GHG emission reductions (tCO _{2e})	Credit Type	Program
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16/01/2009 to 23/02/2011	186,249	VCU	VCS
24/02/2011 to 31/12/2012	120,990	CER	CDM
01/01/2013 to 31/10/2018	695,322	VCU	VCS

Besides, the PP has issued the statement that the PP will not request the issuance of CERs under CDM and the VCUs will not be double counted./9/ Therefore, CCSC consider the project is eligible to participate under the VCS Program as there is no double counting for the emission reduction during any period.

Since China has initiated ETS in July 2021, and As per the Notice (Huan ban qi hou [2021]No.9) issued by Ministry of Ecology and Environment of P.R.China (MEE), the fossil fuel power and/or heat generation plants in Gansu Province are covered by China ETS, and also other seven industries will be included in the future. However, as per the notice, the project activity is not covered by the mandatory emission control scheme and there is no emission cap enforced for the project owner. Also, the CCSC verification team reviewed the regulation, and realises that the allowance (CEA) for power generation industries will be allocated on the basis of carbon emission intensity, i.e. the CEA allocation is not related with the components of local grid. Furthermore, the CCSC verification team checked the No Double Counting Statement issued by the project owner, and confirms the PP has not applied for and will not apply for another form of GHG-related environmental credit, including renewable energy certificates, during this monitoring period. In summary, CCSC verification team can conclude that net GHG emission reductions generated during this monitoring period have not been used and will not be used for compliance under other programs or mechanisms.

3.2 Methodology Deviations

Not applicable as no deviation for methodology.

3.3 Project Description Deviations

The project is registered under VCS 3, and the VCUs have been claimed since 16/01/2009. 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 shall be updated to be 16/01/2009 to 15/01/2019. Besides, since the project has been registered under CDM, and is not eligible for VCU issuance beyond the end of the total project crediting period under CDM (23/02/2032). However the project lifetime is 20 years. Therefore the project crediting life would be 16/01/2009 – 15/01/2029. This deviation is the change on the duration of the crediting period, which does not impact the applicability of the methodology, additionality or the appropriateness of the baseline scenario.

3.4 Grouped Project

Not applicable as this is not a grouped project.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

Project description.

CCSC verification team has performed an on-site visit and found that the Project has been put into operation and the electricity generated is supplied to Northeast China Power Grid according to the signed Power Purchase Agreement (PPA). It's witnessed that the Project installs 33 sets of wind turbine with unit capacity of 1.5MW, and the total installed capacity of the Project is 49.5MW. The project produces clean electricity without GHG emissions for Northeast China Power Grid as per the registered CDM-PDD and the renewed VCS-PD of the 2nd crediting period. Through checking the Technical Agreement of the Wind Turbines, the verification team can confirm the information of the physically installed facilities has been consistently reported in the monitoring report. The technical parameters of the wind turbines are listed as following tables:

Table 3. Key technical data for the equipment of the Project

No.	Item	Unit	Value
1	type	/	FD-77-1500
2	Installed capacity	MW	49.5
3	Rated capacity	kW	1500
4	Annual Operation hour	Hour	2199
5	Annual grid-connected output	MWh	108830
6	Rotor Diameter	m	77
7	Number of blades	/	3
8	Swept area	m ²	4657
9	Rated Rotation speed of wind wheel	rpm	9.6~17.3 ±10%
10	Cut-in wind speed	m/s	3.5
11	Cut-out wind speed	m/s	20
12	Rated wind speed	m/s	12.5
13	Hub height of the wind turbines	m	70
14	Rated voltage of generator	v	690
15	Lifetime of the wind turbine	Year	21
16	Plant Load Factor	%	25.1

Therefore, the verification confirmed there is no changes from the project design to actual

implementation have been identified during this verification. The operation of the project activity has been conducted in accordance with the description of the registered CDM-PDD and the renewed VCS-PD of the 2nd crediting period. Therefore there is no any discrepancy between project implementation and the project description.

The verification team has checked the Implementation log of the project /22/ and can confirm that the first wind turbine started operation on 16/01/2009, on which the project began generating GHG emission reductions, which is the project start date.

Monitoring plan

[Power System]

As shown in the diagram of the power connection system, the project is connected to 220kV step-up substation, which is constructed by the project, and then connected to the Northeast China Power Grid, together with the other projects (project X) owned by the same project owner. Each project matches with an on-site 220KV transformer.

[Metering System]

The main meter and back-up meter (M) installed in the substation is bidirectional, recording the electricity of “P” and “X” exported to the grid ($EG_{\text{export},y}$) and imported from the grid ($EG_{\text{import},y}$), which is used to calculate the $EG_{\text{Total},y} = EG_{\text{export},y} - EG_{\text{import},y}$. They will be owned, operated and maintained by the grid company. The Meter 1 and Meter X are installed at lower side of the onsite 220kV transformers, which are used to monitor the electricity generation of “P”($E_{P,y}$) and “X”($E_{X,y}$). The on-site meters are owned, operated and maintained by the project owner.

[Information flow]

Data collection of the electricity supply will follow the steps below:

The main meter and back-up meter (M) are owned, operated and maintained by the grid company. The reading records are provided to the project owner by the grid company regularly, and can be crosschecked by sales receipts. The Meter 1 and Meter X are owned, operated and maintained by the project owner. The meter readings are recorded on a particular day every month. As the 1st crediting period ended on 15/01/2019, the meter readings were recorded on 15/01/2019 for the purpose of emission reductions calculation.

The verification team can confirm that the implementation of the monitoring plan complies with the monitoring plan and the completeness of monitoring is ensured, through onsite interview, onsite inspection, and document review. There is not any material discrepancy between the

actual monitoring system and the monitoring plan.

Other GHG program

Based on the PP's statement /9/, the PP will not seek request of issuance of any other kind of GHG emission reductions including CERs under CDM. Refer to the section 3.1 of this report.

The VCUs of the period 16/01/2009 to 23/02/2011 and 01/01/2013 to 31/10/2018, and CERs of the period 24/02/2011 to 31/12/2012 have been issued, and this monitoring period starts from 01/11/2018 to 31/07/2022. There is no gap between the previous monitoring period and this monitoring period.

Besides, the project has not participated or been rejected under any other GHG programs, and it is confirmed by the verification team that the project is not registered as a CCER project in China. The project has not received or sought any other form of environmental credit since previous verification, or has not become eligible to do so since previous verification. The GHG emission reductions or removals generated by the project have not become included in an emissions trading program or any other mechanism that includes GHG allowance trading except for VCS.

Furthermore, as per the Section 3.1 of this report, CCSC verification team can conclude that net GHG emission reductions generated during this monitoring period have not been used and will not be used for compliance under other programs or mechanisms.

Sustainable development contributions

The project contribute to sustainable development as a renewable energy generation project by means of:

- The project utilizes wind resources to generate and supply renewable electricity to the power grid during this monitoring period, which contributes to SDG 7.
- The project achieves full and productive employment and decent work for all women and men, which contributes to SDG 8.
- The project utilizes zero-emission wind power to supply electricity to the grid, and reduces GHG emissions, which contributes to SDG 13.

The verification team has checked all the related evidence, and can confirm the contributions to the sustainable development of the project.

4.2 Safeguards

4.2.1 No Net Harm

By checking the EIA summary and conclusion provided in the registered CDM-PDD, it is confirmed

that the project does not have significant impacts on the environment or on the local society and economy. There is no transboundary impact involved with the project. Negative impacts are mitigated with a set of environmental protection measures in consistent with national and local laws and regulations.

After the completion of the construction, the project was put into operation after inspection and acceptance by the local environmental protection department. During the project operation, the project continues to contribute to the local society and economy.

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 on-site.

4.2.2 Local Stakeholder Consultation

According to the CDM-PDD, local stakeholders were invited to provide comments on 25/03/2007. The processes by which comments from local stakeholders have been invited and compiled, has been described within the CDM-PDD. Furthermore, representatives from the local community were interviewed, the relevant evidences were presented to CCSC for assessment. In general, the interviewees show adequate understanding of the nature of the Project and agreed that the Project would benefit the environment, society and economic development. The response is overall supportive.

The verification team has tested the on-going stakeholder communication mechanism and confirm the mechanism is functional. The local stakeholders can contact the contact person to submit their comments and the contact person will feedback in time. Furthermore, the project owner conducted regular local stakeholder consultation meeting during this monitoring period. The verification team checked the local stakeholder consultation meeting records and confirmed that no negative comments were received. The local stakeholders generally expressed their support to the project.

4.3 AFOLU-Specific Safeguards

Not applicable as this is a non-AFOLU project.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

[Fixed ex-ante parameters]

The data and parameters fixed ex-ante have been reported in the MR, and have been checked against the monitoring plan and the applied methodology by the verification team.

EF_{grid,CM,y}, combined margin grid emission factor

The emission factor of the grid has been determined ex-ante in the monitoring plan for the crediting periods and thus is applicable to this monitoring period. $EF_{grid,CM,y}$ in the monitoring report is 1.0280 tCO₂/MWh in the first crediting period and 0.9139 tCO₂/MWh in the second crediting period, which has been verified against the registered CDM-PDD and renewed VCS-PD of the 2nd crediting period, and confirmed as consistent.

[Monitoring parameters]

The monitoring parameters have been carried out in accordance with the monitoring plan. All parameters were monitored and determined as per the monitoring plan which is listed in below table:

<p>Means of verification</p>	<p>The verification team has performed the following activities to determine whether the monitoring of parameters related to the GHG emission reductions has been implemented in accordance with the monitoring plan.</p> <ul style="list-style-type: none"> • Through the on-site inspection of the monitoring system, interview with the operation staff, document review including relevant records, procedures and technical specifications, the verification team has assessed the implementation of the monitoring plan followed by the PP; • The parameters stated in the monitoring plan have been checked by means above; • The verification team has checked the installation of the electricity meter by onsite inspection against PPA, diagram of power connection system and calibration reports by qualified third party; • The Meter Reading Records and Sales receipts were checked by the team to confirm the monitoring results; • Based on the interview with the top management and operation staff and the review of the VCS Monitoring & Management Manual, the verification team has assessed the quality assurance and quality control procedures applied by the PP. • No sampling plan was involved in the project activity.
<p>Findings</p>	<p>According to the monitoring plan, the parameters which need to be monitored include:</p> <p>Baseline emission parameters:</p> <p>The baseline emissions are the baseline emission factor times the net electricity supplied to the grid. Therefore,</p> $BE_y = EF_{grid,CM,y} \times EG_{P,y} = EF_{grid,CM,y} \times (EG_{Total,y} \times E_{p,y} / (E_{p,y} + E_{x,y}))$ <p>$EF_{grid,CM,y}$: combined margin emission factor of the Northeast China Power Grid, calculated ex-ante in the registered CDM-PDD and renewed VCS-PD of the 2nd crediting period, as 1.0280 tCO₂/MWh in the 1st crediting period and 0.9139 tCO₂/MWh in the 2nd crediting period</p>

	<p>EG_{P,y}: Quantity of net electricity generation supplied by the project to the grid in year y</p> <p>EG_{Total,y}: Total net electricity supplied to the NECPG by “P” and “X” in year y; this parameter is calculated by $EG_{Total,y} = EG_{export,y} - EG_{import,y}$, where EG_{export,y} is the total electricity supplied to the grid by the projects P and X, and EG_{import,y} is the total electricity imported from the grid to the projects P and X, both of which are measured by the meter M.</p> <p>E_{p,y}: Electricity generation by project “P” in year y</p> <p>E_{x,y}: Electricity generation by Project X in the year y, consist of electricity generation by projects including “2”, “3”, “4”, “5”, and “6” in the year y</p> <p>As described above, the meter has been installed in accordance with the approved monitoring plan. The verification team has on-site checked the location of the meters against the diagram of power connection system and found them to be consistent.</p> <p>The main meter and back-up meter (M) are owned, operated and maintained by the grid company. The reading records are provided to the project owner by the grid company regularly, and can be crosschecked by sales receipts. The Meter 1 and Meter X are owned, operated and maintained by the project owner. The meter readings are recorded on a particular day every month. As the 1st crediting period ended on 15/01/2019, the meter readings were recorded on 15/01/2019 for the purpose of emission reductions calculation.</p> <p>The verification team has verified the values provided in the monitoring report and emission reductions calculation spreadsheet against the relevant documented evidences i.e. the Meter Reading Records and Sales receipts, and found them consistent with the provided evidences. Conservative data of electricity between Meter Reading Records and Sales receipts, i.e. lower values of EG_{export,y} and higher values of EG_{import} resulting in lower values of EG_{Total,y}, are used to calculate the emission reductions.</p> <p>(2) Project emission parameters:</p> <p>As per the methodology and registered CDM-PDD and the renewed VCS-PD of the 2nd crediting period, the project emission is 0. No parameters are to be monitored regarding the project emissions.</p> <p>(3) Leakage emission parameters:</p> <p>No parameters related to leakage need to be considered according to the methodology and the registered CDM-PDD and the renewed VCS-PD of the 2nd crediting period. No parameters are to be monitored regarding the leakage emissions.</p> <p>Management and operational system:</p> <p>The PP has the responsibility of overall monitoring, which has established a monitoring team for monitoring of power generation, maintenance and operation of the CDM Project activity. All the records related to generation and maintenance have been satisfactorily</p>
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	<p>maintained.</p> <p>Responsibilities have been allocated to well-trained monitoring staff as per the monitoring plan.</p> <p>The QA/QC procedures are part of management system and are documented in management procedures.</p> <p>The records and all relevant paper-based information are well archived by the project owner and available for verification.</p> <p>The responsibilities and the procedures included in the VCS Monitoring & Management Manual have been verified. VCS Monitoring & Management Manual and internal training records have been provided and verified by the verification team.</p>
Conclusion	<p>CCSC verification team confirms that:</p> <ul style="list-style-type: none"> ● The monitoring has been carried out in accordance with the monitoring plan contained in the registered PDD and the renewed VCS-PD of the 2nd crediting period. ● All parameters required by the monitoring plan have been sufficiently monitored and correctly listed. The monitored data for required parameters have been verified by checking the whole information flow.

[Calibration information]

Meter	Serial No.	Accuracy	Calibration date	Validity	Calibrator
Main meter M	95173915	0.2S	24/10/2018	OK	Electricity research institute of Inner Mongolia
			21/10/2019	OK	
			08/10/2020	OK	
			28/09/2021	OK	
Backup meter of main meter M	95173914	0.2S	24/10/2018	OK	
			21/10/2019	OK	
			08/10/2020	OK	
			28/09/2021	OK	
M1	09030048740091	0.5	24/10/2018	OK	
			21/10/2019	OK	
			08/10/2020	OK	
			28/09/2021	OK	
M2	09030048740098	0.5	24/10/2018	OK	
			21/10/2019	OK	
			08/10/2020	OK	
			28/09/2021	OK	

M3	10110473910122	0.5S	24/10/2018	OK
			21/10/2019	OK
			08/10/2020	OK
			28/09/2021	OK
M4	12058075000500	0.2S	24/10/2018	OK
			21/10/2019	OK
			08/10/2020	OK
			28/09/2021	OK
M5	10050267430264	0.5S	24/10/2018	OK
			21/10/2019	OK
			08/10/2020	OK
			28/09/2021	OK
M6	10050267430258	0.5S	24/10/2018	OK
			21/10/2019	OK
			08/10/2020	OK
			28/09/2021	OK

The monitoring plan requires: accuracy of the main meter M is 0.2S, accuracy of the meters for monitoring the electricity generation of the projects “P” and “X” is 0.5. Accuracy of the meters is not lower than required in the monitoring plan. The meters have been yearly calibrated, which complies with the monitoring plan.

[Calculation of baseline GHG emissions]

Means of verification	<p>The verification team has performed the following activities to assess the data and calculations of GHG emission reductions achieved by the Project as per the methodology:</p> <ul style="list-style-type: none"> ● Through desk review and on-site inspection on the monthly electricity reports and electricity invoice, to verify that a complete set of data for the specified monitoring period is available. ● Information provided in the monitoring report has been cross-checked with other sources such as Meter Reading Records, Sales receipts. ● Review the calculations of baseline GHG emissions have been carried out in accordance with the formulae and methods described in the registered CDM-PDD and the renewed VCS-PD of the 2nd crediting period, and the methodology; ● Review emission factors, IPCC default values, GWPs and other reference values as per the registered CDM-PDD and the renewed VCS-PD of the 2nd crediting period.
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Findings	<p>According to the registered CDM-PDD and the renewed VCS-PD of the 2nd crediting period and the applied methodology, the baseline emissions are the baseline emission factor times the net electricity supplied to the grid. Therefore,</p> $BE_y = EF_{grid,CM,y} \times EG_{P,y} = EF_{grid,CM,y} \times (EG_{Total,y} * E_{P,y} / (E_{P,y} + E_{X,y}))$ <p>$EF_{grid,CM,y}$: combined margin emission factor of the Northeast China Power Grid, calculated ex-ante in the registered CDM-PDD and renewed VCS-PD of the 2nd crediting period, as 1.0280 tCO₂/MWh in the 1st crediting period and 0.9139 tCO₂/MWh in the 2nd crediting period</p> <p>$EG_{P,y}$: Quantity of net electricity generation supplied by the project to the grid in year y</p> <p>$EG_{Total,y}$: Total net electricity supplied to the NECPG by “P” and “X” in year y; this parameter is calculated by $EG_{Total,y} = EG_{export,y} - EG_{import,y}$, where $EG_{export,y}$ is the total electricity supplied to the grid by the projects P and X, and $EG_{import,y}$ is the total electricity imported from the grid to the projects P and X, both of which are measured by the meter M.</p> <p>$E_{P,y}$: Electricity generation by project “P” in year y</p> <p>$E_{X,y}$: Electricity generation by Project X in the year y, consist of electricity generation by projects including “2”, “3”, “4”, “5”, and “6” in the year y</p> <p>The verification team has cross-checked the values from the Meter Reading Records /15/ with the Sales receipts /16/ for the this monitoring period. Conservative data of electricity between Meter Reading Records and Sales receipts, i.e. lower values of $EG_{export,y}$ and higher values of EG_{import} resulting in lower values of $EG_{Total,y}$, are used to calculate the emission reductions. During this monitoring period, the data of electricity between Meter Reading Records and Sales receipts is consistent.</p> <p>The net electricity supply ($EG_{P,y}$) baseline emissions are calculated as:</p> <p style="text-align: center;">The verified $EG_{P,y}$ and BE of the Project</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr style="background-color: #e0e0e0;"> <th rowspan="2">Year</th> <th>$EG_{facility}$</th> <th>$EF_{grid,CM,y}$</th> <th>BE_y</th> </tr> <tr style="background-color: #e0e0e0;"> <th>MWh</th> <th>tCO₂e/MWh</th> <th>tCO₂e</th> </tr> </thead> <tbody> <tr> <td colspan="4">1st crediting period</td> </tr> <tr> <td>2018 (01/11/2018 to 31/12/2018)</td> <td>11,181.404</td> <td>1.0280</td> <td>11,494</td> </tr> <tr> <td>2019 (01/01/2019 to 15/01/2019)</td> <td>3,008.186</td> <td>1.0280</td> <td>3,092</td> </tr> </tbody> </table>	Year	$EG_{facility}$	$EF_{grid,CM,y}$	BE_y	MWh	tCO ₂ e/MWh	tCO ₂ e	1st crediting period				2018 (01/11/2018 to 31/12/2018)	11,181.404	1.0280	11,494	2019 (01/01/2019 to 15/01/2019)	3,008.186	1.0280	3,092
Year	$EG_{facility}$		$EF_{grid,CM,y}$	BE_y																
	MWh	tCO ₂ e/MWh	tCO ₂ e																	
1st crediting period																				
2018 (01/11/2018 to 31/12/2018)	11,181.404	1.0280	11,494																	
2019 (01/01/2019 to 15/01/2019)	3,008.186	1.0280	3,092																	

	Total in 1st crediting period	14,189.590	/	14,586
	2nd crediting period			
	2019 (16/01/2019 to 31/12/2019)	77,902.701	0.9139	71,195
	2020 (10/12/2020 to 31/12/2020)	94,201.461	0.9139	86,090
	2021 (01/01/2021 to 31/12/2021)	96,154.366	0.9139	87,875
	2022 (01/01/2022 to 31/07/2022)	51,229.006	0.9139	46,818
	Total in 2nd crediting period	319,487.534	0.9139	291,978
	Total	333,677.124	/	306,564
	<p>Detailed values of monitoring parameters are included in the table below.</p> <p>The verification team confirmed the calculation of baseline emissions as reported in the MR and the ER spreadsheet is correct and rounded down to integers.</p>			
Conclusion	<p>CCSC verification team confirms that:</p> <ul style="list-style-type: none"> ● A complete set of data for the monitoring period is available. ● Information on the baseline GHG emission calculation provided in the monitoring report has been cross-checked with other sources. ● Calculations of baseline emissions have been carried out in accordance with the formulae and methods described in the monitoring plan and the applied methodology document. ● There are no assumptions applied. ● Appropriate emission factor of the power grid has been correctly applied. 			

[Verified monitoring parameters]

Period start	Period end	EG _{total,y}			E _{P,y}	E _{x,y}						EG _{P,y} Net electricity supplied from the project
		EG _{export,y}	EG _{import,y}	EG _{total,y} =EG _{export,y} - EG _{import,y}		E _{2,y}	E _{3,y}	E _{4,y}	E _{5,y}	E _{6,y}	Total	
1st crediting period												
01/11/2018	30/11/2018	42,006.096	100.320	41,905.776	5,078.804	6,577.926	7,319.713	5,696.720	9,629.002	8,568.571	37,791.932	4,964.487
01/12/2018	31/12/2018	50,211.216	116.160	50,095.056	6,362.152	7,234.872	9,112.664	5,833.032	11,421.716	11,300.905	44,903.189	6,216.917
Subtotal 2018		-	-	92,000.832	11,440.956	-	-	-	-	-	82,695.121	11,181.404
01/01/2019	15/01/2019	24,295.750	56.206	24,239.544	3,078.461	3,500.745	4,409.354	2,822.435	5,526.637	5,468.180	21,727.351	3,008.186
Subtotal 2019		-	-	24,239.544	3,078.461	-	-	-	-	-	21,727.351	3,008.186
Total in 1st crediting period		-	-	116,240.376	14,519.417	-	-	-	-	-	104,422.472	14,189.590
2nd crediting period												
16/01/2019	31/01/2019	32,227.706	48.866	32,178.840	4,755.381	5,193.091	5,178.700	4,015.386	7,349.352	6,412.212	28,148.741	4,650.562
01/02/2019	28/02/2019	39,434.736	87.648	39,347.088	5,240.851	5,810.127	6,251.296	5,671.840	8,711.370	8,653.394	35,098.027	5,111.997
01/03/2019	31/03/2019	50,670.048	88.176	50,581.872	6,972.999	7,581.019	8,237.114	7,363.546	11,021.306	10,559.204	44,762.189	6,817.552
01/04/2019	30/04/2019	47,691.072	81.312	47,609.760	7,419.542	7,679.433	7,134.476	6,461.413	10,730.278	9,266.005	41,271.605	7,254.761
01/05/2019	31/05/2019	64,447.680	39.072	64,408.608	10,810.878	9,075.339	10,538.825	7,108.742	14,898.040	13,261.265	54,882.211	10,599.496
01/06/2019	30/06/2019	37,208.688	118.272	37,090.416	6,495.633	4,646.685	6,646.083	4,051.393	8,442.910	7,680.355	31,467.426	6,346.320
01/07/2019	31/07/2019	24,730.992	116.160	24,614.832	4,399.801	3,058.199	4,377.460	2,691.689	5,667.160	5,008.282	20,802.790	4,297.192
01/08/2019	31/08/2019	27,308.688	124.080	27,184.608	4,036.295	3,997.245	4,825.384	3,579.008	6,147.384	5,602.760	24,151.781	3,892.607
01/09/2019	30/09/2019	36,428.832	124.608	36,304.224	5,662.502	4,973.324	6,012.891	4,784.411	8,155.597	7,550.408	31,476.631	5,535.206
01/10/2019	31/10/2019	56,619.024	60.720	56,558.304	8,486.546	7,848.831	8,457.698	8,121.170	12,923.398	11,876.104	49,227.201	8,316.643
01/11/2019	30/11/2019	60,170.352	78.144	60,092.208	9,221.512	9,247.249	9,754.026	9,170.047	12,557.324	11,415.209	52,143.855	9,030.192
01/12/2019	31/12/2019	45,497.760	112.464	45,385.296	6,204.630	6,900.885	7,346.861	6,747.891	10,061.974	9,281.715	40,339.326	6,050.173
Subtotal 2019		-	-	521,356.056	79,706.570	-	-	-	-	-	453,771.783	77,902.701
01/01/2020	31/01/2020	34,916.640	176.880	34,739.760	5,073.431	4,854.545	5,575.682	4,993.682	7,849.431	7,444.449	30,717.789	4,924.386
01/02/2020	29/02/2020	48,062.786	162.099	47,900.687	5,695.016	5,996.199	6,689.625	5,734.045	9,492.045	15,494.021	43,405.935	5,555.802

01/03/2020	31/03/2020	77,504.064	64.416	77,439.648	9,968.135	12,325.840	12,426.233	11,466.409	17,862.852	14,948.875	69,030.209	9,771.456
01/04/2020	30/04/2020	52,582.992	56.496	52,526.496	8,290.848	7,261.737	8,381.343	7,512.865	12,263.380	9,968.013	45,387.338	8,112.964
01/05/2020	31/05/2020	64,052.208	74.976	63,977.232	10,792.497	9,440.995	9,459.943	8,804.413	14,239.732	12,534.699	54,479.782	10,578.366
01/06/2020	30/06/2020	43,668.240	96.096	43,572.144	7,306.422	6,203.785	6,592.351	5,671.269	9,799.791	8,944.705	37,211.901	7,151.134
01/07/2020	31/07/2020	27,911.664	137.808	27,773.856	5,016.869	3,572.047	5,135.647	3,584.210	6,126.692	5,159.649	23,578.245	4,872.783
01/08/2020	31/08/2020	23,141.712	111.408	23,030.304	4,640.465	3,192.249	3,824.870	2,949.038	4,892.900	4,174.899	19,033.956	4,514.210
01/09/2020	30/09/2020	54,803.760	151.008	54,652.752	8,526.418	8,455.437	9,396.031	7,920.378	11,372.880	10,213.626	47,358.352	8,338.447
01/10/2020	31/10/2020	66,201.696	55.968	66,145.728	9,987.932	9,820.228	10,874.790	9,230.594	14,333.693	13,289.254	57,548.559	9,782.253
01/11/2020	30/11/2020	69,484.800	48.576	69,436.224	10,824.736	10,314.563	11,133.552	10,169.772	14,784.083	13,663.102	60,065.072	10,602.777
01/12/2020	31/12/2020	66,289.872	54.384	66,235.488	10,209.645	9,547.612	11,166.358	9,666.668	14,108.922	12,945.961	57,435.521	9,996.883
Subtotal 2020		-	-	627,430.319	96,332.414	-	-	-	-	-	545,252.659	94,201.461
01/01/2021	31/01/2021	56,163.888	119.328	56,044.560	8,200.633	7,810.937	8,590.329	8,132.196	12,471.582	12,235.103	49,240.147	8,001.299
01/02/2021	28/02/2021	63,075.408	84.480	62,990.928	9,925.998	9,557.226	10,373.385	9,016.798	13,053.346	12,595.245	54,596.000	9,690.460
01/03/2021	31/03/2021	69,990.096	91.872	69,898.224	11,482.530	10,520.442	11,398.253	9,908.745	14,340.263	13,523.732	59,691.435	11,276.714
01/04/2021	30/04/2021	72,083.616	66.528	72,017.088	12,051.522	10,472.367	11,473.194	10,242.168	15,452.673	13,878.447	61,518.849	11,797.080
01/05/2021	31/05/2021	59,215.200	94.512	59,120.688	9,744.722	8,899.714	9,758.297	7,321.973	12,698.063	11,271.205	49,949.252	9,651.136
01/06/2021	30/06/2021	46,006.224	88.176	45,918.048	7,545.388	6,602.811	7,850.247	6,183.419	9,931.171	8,948.991	39,516.639	7,361.975
01/07/2021	31/07/2021	37,573.536	191.136	37,382.400	6,551.064	5,145.546	6,126.013	5,126.883	8,289.543	7,185.984	31,873.969	6,373.306
01/08/2021	31/08/2021	25,356.144	118.800	25,237.344	4,220.790	3,206.671	4,542.617	3,631.719	5,428.113	4,944.306	21,753.426	4,101.049
01/09/2021	30/09/2021	30,282.912	155.232	30,127.680	4,859.351	3,904.055	5,569.747	4,315.812	6,469.695	5,852.802	26,112.111	4,726.964
01/10/2021	31/10/2021	43,877.328	99.792	43,777.536	6,869.213	5,775.343	7,835.541	6,013.460	9,429.086	8,885.874	37,939.304	6,711.162
01/11/2021	30/11/2021	56,065.680	109.824	55,955.856	8,254.935	8,268.508	9,739.347	7,850.811	11,979.207	11,164.960	49,002.833	8,067.236
01/12/2021	31/12/2021	54,024.960	127.248	53,897.712	8,606.167	7,210.270	9,690.141	7,239.112	11,723.022	10,778.257	46,640.802	8,395.985
Subtotal 2021		-	-	612,368.064	98,312.313	-	-	-	-	-	527,834.767	96,154.366
01/01/2022	31/01/2022	34,410.288	262.944	34,147.344	5,385.928	4,801.945	5,866.403	4,528.476	7,668.076	7,119.438	29,984.338	5,199.710
01/02/2022	28/02/2022	43568.448	86.064	43,482.384	6374.595	6241.111	7340.362	5973.301	9825.779	8933.567	38,314.120	6,202.519
01/03/2022	31/03/2022	60495.072	108.768	60,386.304	10134.419	7875.695	10815.12	7949.79	13567.427	11527.672	51,735.704	9,891.367
01/04/2022	30/04/2022	66523.776	69.696	66,454.080	11143.45	10411.283	10916.08	9205.707	13761.637	12472.437	56,767.144	10,904.451

01/05/2022	31/05/2022	60691.488	74.448	60,617.040	9911.008	8416.693	10704.83	8333.55	12790.599	11762.721	52,008.393	9,702.548
01/06/2022	30/06/2022	31890.144	154.176	31,735.968	5465.108	4466.542	5770.535	4361.342	6698.463	5796.823	27,093.705	5,326.991
01/07/2022	31/07/2022	25567.872	214.368	25,353.504	4135.671	3645.009	4498.216	3696.479	5444.963	4783.797	22,068.464	4,001.420
Subtotal 2022		-	-	322,176.624	52,550.179	-	-	-	-	-	277,971.868	51,229.006
Total in 2nd crediting period		-	-	2,083,331.063	326,901.476	-	-	-	-	-	1,804,831.077	319,487.534
Total		-	-	2,199,571.439	341,420.893	-	-	-	-	-	1,909,253.549	333,677.124

[Calculation of emission reductions]

As per the methodology and registered CDM-PDD and the renewed VCS-PD of the 2nd crediting period, the emission reductions are calculated as $ER_y = BE_y - PE_y$:

Year	BE _y	PE _y	LE _y	ER _y
	tCO ₂ e	tCO ₂ e	tCO ₂ e	tCO ₂ e
1st crediting period				
2018 (01/11/2018 to 31/12/2018)	11,494	0	0	11,494
2019 (01/01/2019 to 15/01/2019)	3,092	0	0	3,092
Total in 1st crediting period	14,586	0	0	14,586
2nd crediting period				
2019 (16/01/2019 to 31/12/2019)	71,195	0	0	71,195
2020 (10/12/2020 to 31/12/2020)	86,090	0	0	86,090
2021 (01/01/2021 to 31/12/2021)	87,875	0	0	87,875
2022 (01/01/2022 to 31/07/2022)	46,818	0	0	46,818
Total in 2nd crediting period	291,978	0	0	291,978
Total	306,564	0	0	306,564

The verification team confirm that the actual emission reductions achieved during this monitoring period are 37.38% lower and 17.13% lower than the estimated ex-ante amount respectively in the 1st crediting period and 2nd crediting period, as indicated in the monitoring report.

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

The monitoring has been carried out in accordance with the monitoring plan.

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 and ER Calculation Spreadsheet and are consistent with the applied methodology and the monitoring plan. The parameters are complete in this monitoring period.

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. The verification process for the same has been clearly described above in section 4.4 of the report.

Electricity data was continuously metered and monthly recorded. On the appointed day of each month, the grid company and the project proponent read the electricity meters and records the

readings. Data on the Meter Reading Records are crosschecked with the Sales receipts and conservative data of electricity between Meter Reading Records and Sales receipts, i.e. lower values of $EG_{\text{export},y}$ and higher values of EG_{import} resulting in lower values of $EG_{\text{Total},y}$, are used to calculate the emission reductions. All the evidence of the electricity data are external and documented. All data monitored are to be kept electronically for two years after the end of the crediting period.

The monitoring plan specifies the yearly calibration frequency for the electricity meters and this calibration requirement was fulfilled during this monitoring period.

Therefore, the verification team concluded that the evidence is sufficient and the quality is appropriate and thus the evidence can be used to determine the GHG emission reductions and removals for this monitoring period.

4.6 Non-Permanence Risk Analysis

Not applicable as a renewable project.

5 VERIFICATION CONCLUSION

CCSC has been commissioned by Guohua Energy Investment Co., Ltd. to perform the verification of greenhouse gas emission reductions of the project activity “Guohua Tongliao Kezuo Zhongqi Phase I 49.5 MW Wind Farm Project” (UNFCCC Ref. No. 4495, VCS Ref. No. 1310).

The management of Guohua (Tongliao) 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 CDM-PDD and the renewed VCS-PD of the 2nd crediting period.

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 CDM-PDD and the renewed VCS-PD of the 2nd crediting period;
- the monitoring plan in the registered CDM-PDD and the renewed VCS-PD of the 2nd crediting period is as per the applied methodology;
- the monitoring activities comply with the monitoring plan in the CDM-PDD and the renewed VCS-PD of the 2nd crediting period;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS standard version 4.3 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 “Guohua Tongliao Kezuo Zhongqi Phase I 49.5 MW Wind Farm Project” during the monitoring period 01/11/2018 to 31/07/2022 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: 01/11/2018 to 31/07/2022

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

Year	Baseline emissions or	Project emissions or	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or

	removals (tCO ₂ e)	removals (tCO ₂ e)		removals (tCO ₂ e)
2018 (01/11/2018 to 31/12/2018)	11,494	0	0	11,494
2019 (01/01/2019 to 31/12/2019)	74,287	0	0	74,287
2020 (01/01/2020 to 31/12/2020)	86,090	0	0	86,090
2021 (01/01/2021 to 31/12/2021)	87,875	0	0	87,875
2022 (01/01/2022 to 31/07/2022)	46,818	0	0	46,818
Total	306,564	0	0	306,564

APPENDIX A: ABBREVIATIONS

Abbreviations	Full texts
AFOLU	Agriculture, Forestry and Other Land Use
BM	Build Margin
CAR	Corrective Action Request
CCSC	China Classification Society Certification Co., Ltd.
CCER	China Certified Emission Rrductions
CDM	Clean Development Mechanism
CER	Certified Emission Reduction (CDM)
CL	Clarification Request
CM	Combined Margin
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DNA	Designated National Authority
CDM-EB	CDM Executive Board
EF	Emission Factor
EIA	Environmental Impact Assessment
FAR	Forward Action Request
FSR	Feasibility Study Report
GHG(s)	Greenhouse gas(es)
GS	Golden Standard
IPCC	Intergovernmental Panel on Climate Change
MEE	Ministry of Ecology and Environment of the People's Republic of China
MP	Monitoring Plan
OM	Operating Margin

PD	Project Description
PDD	Project Design Document
PP	Project Participant
PPA	Power Purchase Agreement
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Verified Carbon Standard
VCU	Voluntary Carbon Unit
VVB	Validation / Verification Body
VVS	Verification and Validation Standard (CDM)

APPENDIX B: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS



Appendix 9

CERTIFICATE OF COMPETENCE

Date of issue: 20/01/2022

Mr. Tan Wenbin

Has been qualified in accordance with *CDM Personnel Competence Requirements and Professional Competence Evaluation Instructions (CDMI0301)* as

- CDM validator for Technical Area(s): TA1.2/TA5.2/TA8.1/TA10.1
- CDM verifier for Technical Area(s): TA1.2/TA5.2/TA8.1/TA10.1
- Technical expert for Technical Area(s): _____



Li Honglin
CCSC General Manager

CERTIFICATE OF COMPETENCE

Date of issue: 20/01/2022

Mr. Li Xingtong

Has been qualified in accordance with *CDM Personnel Competence Requirements and Professional Competence Evaluation Instructions (CDMI0301)* as

- CDM validator for Technical Area(s):
TA1.1/TA1.2/TA3.1/TA9.2/TA13.1/TA14.1
- CDM verifier for Technical Area(s):
TA1.1/TA1.2/TA3.1/TA9.2/TA13.1/TA14.1
- Technical expert for Technical Area(s): _____



Li Honglin
CCSC General Manager

APPENDIX C: DOCUMENTS REVIEWED OR REFERENCED

- /1/ Monitoring report, Version 01 dated 22/06/2022, Version 02 dated 15/11/2022
- /2/ ER calculation spreadsheet
- /3/ Registered CDM-PDD, version 07, dated 25/09/2010
- /4/ CDM Validation report, Version 01, dated 15/12/2010
- /5/ Renewed VCS-PD of the 2nd crediting period
- /6/ VCS validation report of the renewal of the crediting period of the VCS project
- /7/ Previous VCS verification report
- /8/ VCS Standard version 4.3
- /9/ No Double Counting Statement, issued by the Project Owner on 10/10/2022
- /10/ Methodology ACM0002 version 11 Consolidated baseline methodology for grid-connected electricity generation from renewable sources
- /11/ VCS Monitoring Manual
- /12/ Internal training records
- /13/ Technical Agreement of the Wind Turbines
- /14/ Diagram of the power connection system
- /15/ Meter Reading Records
- /16/ Sales receipts
- /17/ Signed Power Purchase Agreement (PPA) with grid company
- /18/ Calibration certificates of meters covering the whole monitoring period issued by Electricity research institute of Inner Mongolia
- /19/ Accreditation Certificate of Metrological Authorization to Electricity research institute of Inner Mongolia, issued by China National Accreditation Service for Conformity Assessment
- /20/ Accreditation certificates for Electricity research institute of Inner Mongolia
- /21/ Huanbanqihou[2021]No.9,
http://www.mee.gov.cn/xxgk2018/xxgk/xxgk05/202103/t20210330_826728.html

/22/ Implementation log of the project

APPENDIX D: RESOLUTION OF CORRECTIVE ACTION REQUESTS AND CLARIFICATION REQUESTS

No CAR, three CL and Zero FAR were raised in this verification.

Findings	PP's response	Verification teams conclusion
CL1: Version of the applied methodology of tools related to the 2 nd crediting period should be included in the section 1.8 of the monitoring report.	Revise the monitoring report to include version of the applied methodology of tools related to the 2 nd crediting period in the section 1.8 of the monitoring report.	Revised monitoring report has been checked and it is confirmed that the version of the applied methodology of tools related to the 2 nd crediting period has been included in the section 1.8 of the monitoring report. This CL is closed.
CL2: The value of the combined margin grid emission factor of the Northeast China Power Grid where the Project connected to of the 2 nd crediting period should be included in the section 4.1 of the monitoring report.	Revise the monitoring report to include the value of the combined margin grid emission factor of the Northeast China Power Grid where the Project connected to of the 2 nd crediting period in the section 4.1 of the monitoring report.	Monitoring report has been revised accordingly. This CL is closed.
CL3: As per the VCS-Monitoring-Report-Template-v4.1, the calibration information, including calibration dates and validity, shall be included in the section 4.2 of the monitoring report.	The monitoring report has been revised and the information on calibration information, including calibration dates and validity, has been included in the section 4.2 of the monitoring report.	Revised monitoring report has been checked and it is confirmed that the related calibration information has been included in the section 4.2 of the monitoring report, which is consistent with the documented evidence. This CL is closed.