



VCS VERIFICATION REPORT

CECIC GANSU YUMEN CHANGMA NO.3
WIND FARM PROJECT

(VCS PROJECT ID: 728)



Document Prepared By

Shenzhen CTI International Certification Co., Ltd.

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Prepared By	Shenzhen CTI International Certification Co., Ltd
Contact	Address: F8-A CTI Building, No.4 LiuXianSan Road, Xin'an Street, Bao'an District, 518101, Shen Zhen, China Tel: +86 10 65580012 Email: linshunrong@cti-cert.com Website: http://www.cti-cert.org
Approved By	Zhou Lu 
Work Carried Out By	Team Leader: Tong Dezheng Technical Reviewer: Lin Shunrong

Summary:

Shenzhen CTI International Certification Co., Ltd (CTI) has performed the verification of the emission reductions reported for the project activity “CECIC Gansu Yumen Changma No.3 Wind Farm Project” (VCS Project ID: 728) for the monitoring period 28/01/2021 to 31/12/2021, to review and determine the monitored reductions in GHG emissions that have occurred as a result of the project activity. These emission reductions are claimed as Verified Carbon Units (VCU) under the Verified Carbon Standard (VCS) version 4.

The verification was performed on the basis of VCS Programme Guide version 4.1 and VCS Standard version 4.2 for the VCS projects, as well as criteria given to provide for consistent project operations, monitoring and reporting. The verification was conducted by means of document review, follow-up interviews and site inspections, and the resolution of outstanding issues. The verification team identified 1 CAR, no CL or FAR in this monitoring period.

In CTI's opinion, the GHG emission reductions reported for the project in the monitoring report (version 02 dated 29/03/2022) are fairly stated. The GHG emission reductions of the period from 28/01/2021 to 31/12/2021 were calculated correctly on the basis of approved methodology ACM0002 “Grid connected electricity generation from renewable sources” (version 20.0).

CTI does not assume any responsibility towards the issuance and utilization of the VCUs hereby verified and

certified. Request for issuance of VCU's shall be made by the project proponent to an approved VCS Program Registry based on the requirements set out under the most recent version of the VCS Program Guidelines clause on VCS Registration.

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

Hence, CTI is able to certify that the emission reductions from the "CECIC Gansu Yumen Changma No.3 Wind Farm Project" during the period amount to 348,411 tCO₂e.

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1 INTRODUCTION

Profit Carbon Environmental Energy Technology (Shanghai) Co., Ltd. has commissioned Shenzhen CTI International Certification Co., Ltd (CTI) to carry out the verification and certification of emission reductions reported for the “CECIC Gansu Yumen Changma No.3 Wind Farm Project” (the project) for the period 28/01/2021 to 31/12/2021. This report contains the findings from the verification and includes a verification statement for the verified carbon units.

1.1 Objective

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

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

The objective of this verification was to verify and provide a verification statement of emission reductions reported for the “CECIC Gansu Yumen Changma No.3 Wind Farm Project” for the period 28/01/2021 to 31/12/2021.

1.2 Scope and Criteria

The scope of the verification is:

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

The criteria of the verification are:

- VCS Program Guide (version 4.1) /30/
- VCS Standard (version 4.2) /29/ and other relevant requirements defined by Verra;
- The approved methodology ACM0002 (version 20.0) /32/ applied by the project.

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

1.3 Level of Assurance

The verification report expresses a conclusion with a reasonable level of assurance about whether the reported GHG emissions reduction data is free from material misstatement. CTI applied a materiality threshold of 1% (for large projects with ER larger than 300,000 tCO₂e per year) with respect to emission or misstatements concerning reported quantities as per VCS standard (i.e. para 3.9.1 and 4.1.8 (4) of VCS Standard, version 4.2).

1.4 Summary Description of the Project

Sectoral Scope and Project Type

According to the VCS Program Guide (version 4.1) /30/, the project is applicable under the following activity categories:

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

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

Project Background

Project title:	CECIC Gansu Yumen Changma No.3 Wind Farm Project
Project proponent:	CECIC Wind-power (Gansu) Co., Ltd. (China)
Project location:	18-31 km southwest of Yumen Town, Yumen City, Gansu Province, P. R. China
VCS Project ID:	728
Applied methodology:	ACM0002 version 20.0
VCS project crediting period:	28/01/2011 to 27/01/2021 (the first VCS crediting period) 28/01/2021 to 27/01/2031 (the second VCS crediting period)
VCU verification period:	28/01/2021 to 31/12/2021

2 VERIFICATION PROCESS

2.1 Method and Criteria

The verification was performed through means of the following three phases in accordance with the requirement of renewed VCS PD, the applied methodology, and the VCS Standard (version 4.2) and other relevant VCS requirements:

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

The following sections outline each step in more detail.

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

- The emission reduction calculations and the relevant data records;
- The calibration and maintenance records for the monitoring instruments;
- The management systems to support the project operation and monitoring.

2.2 Document Review

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

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

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

In addition to the VER/VCU monitoring report /1/, revised CDM PDD (approved by CDM EB) (version 11.0 dated 02/07/2012) /10/, registered VCS PD (version 10.2 dated 20/04/2011) /11/, renewed VCS PD (version 02 dated 17/02/2022) /12/ and emission reduction calculation spreadsheet /2/, the following documents also were assessed as a part of the verification audit:

- Validation Opinion for revision of registered monitoring plan (revised CDM PDD approved by CDM EB) /16/;
- Validation Report of registered CDM PDD /17/;
- Validation Report of renewed VCS PD /13/;
- VCS Monitoring Report of previous monitoring period /22/;

- VCS Verification Report of previous monitoring period /23/;
- Baseline and monitoring methodology ACM0002 applied by the project /32/;
- Relevant decisions, clarifications and guidance from the Verra /29/-/31/; and
- Other information and references relevant to the project activity.

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

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

2.3 Interviews

On 28/03/2022, CTI visited CECIC Wind-power (Gansu) Co., Ltd. performed on-site assessment. The key personnel of the project were interviewed or assisted the verification team /33/. Main topics of the interview cover implementation of the project construction, applicability of selected methodology, implementation of project monitoring, emission reduction calculation, etc.

The key personnel interviewed /33/ are summarized in the table below:

Interviewed personnel	Role	Organization	Subject
Mr. Chen Weilin	Director of Monitoring Team	CECIC Wind-power (Gansu) Co., Ltd.	Operation of the project activity; Implementation of the monitor plan of the project activity; Data collection and data achievement; Calibration of meters and equipment maintenance;
Ms. Wang Fan	Staff of Monitoring Team	CECIC Wind-power (Gansu) Co., Ltd.	
Mr. Wang Haiyang	Staff of Monitoring Team	CECIC	
Mr. Li Guodong	Staff of Monitoring Team	CECIC	
Mr. Luo Yongding	Local resident	Luojiazhuang Village	The impact of the project activity; The complaint by local stakeholders; The stakeholder consultation during the operation of the project activity.
Ms. Ge Hongxiu		Gejiazhuang Village	
Mr. Xie Shenghua	Staff	Local Environment Protection Bureau	
Mr. Chen Xingguo			
Mr. Cheng Xiaoyu	Project Manager	Profit Carbon Environmental Energy Technology (Shanghai) Co.. Ltd.	Data collection and ER calculation.
Mr. Wang Xuyang			
Mr. Wu Song			

2.4 Site Inspections

The verification team performed the on-site verification (18-31 km southwest of Yumen Town, Yumen City, Gansu Province, P. R. China) on 28/03/2022. The interviewed personnel and objective are listed in above table. During the on-site assessment, CTI has applied standard auditing techniques to assess the quality of information provided. The following aspects of the project activity have been verified:

- An assessment of the implementation and operation of the project activity is as per the renewed VCS PD of the project activity;
- A review of information flows for generating, aggregating and reporting the monitoring parameters; and
- Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in renewed VCS PD;
- A cross-check between information provided in the monitoring report and data from other sources such as plant logbooks and electricity sale receipts;
- A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the monitoring plan in renewed VCS PD and the selected methodology;
- A review of calculations and assumptions made in determining the GHG data and emission reductions; and

- An identification that quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

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

In addition all parameters required by the monitoring methodology ACM0002 (version 20.0), and the management system were assessed during the site visit.

2.5 Resolution of Findings

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

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

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

The verification team identified 0 CL and 1 CAR in this monitoring period.

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

CTI confirmed that there was no FAR identified in previous verification /23/, and no FAR was raised during this verification.

2.6 Eligibility for Validation Activities

The registered CDM PDD was validated by TÜV Rheinland Japan Ltd. on 20/04/2011 /17/. The revised CDM PDD (approved by CDM EB) of the project activity was validated by SGS United Kingdom Limited on 25/07/2012 /16/. The renewed VCS PD was validated by Shenzhen CTI International Certification Co., Ltd.. The initial VCS verification was carried out by LGAI Technological Center, S.A. on 02/11/2011 under Voluntary Carbon Standard version 3. The previous (4th) VCS verification was carried out by Shenzhen CTI International Certification Co., Ltd. on 29/10/2021 under VCS version 4. Six periodic verifications were carried out by SGS United Kingdom Limited on 24/12/2011, 29/10/2012,

30/10/2012 and 20/02/2013, and by Shenzhen CTI International Certification Co., Ltd. on 11/02/2015 and 04/03/2016 under CDM scheme. The proposed VCS monitoring period 28/01/2021 to 31/12/2021 is 5th VCS verification, CTI just undertook verification activities for the project according to the VCS Program Guide. This section is thus not applicable.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

The registered CDM PDD of the project activity was validated by TÜV Rheinland Japan Ltd. on 20/04/2011 /17/. The revised CDM PDD of the project activity was validated by SGS United Kingdom Limited on 25/07/2012 under CDM scheme for revision of registered monitoring plan /16/. The renewed VCS PD was validated by Shenzhen CTI International Certification Co., Ltd. on 18/02/2022 under VCS version 4. CTI only performed verification activities on the proposed monitoring period for the project according to the VCS Program Guide.

3.2 Methodology Deviations

The validation process /16/ /17/ has assessed all factors and issues that constitute the basis for emission reductions from the project according to the applicable CDM methodology ACM0002 (version 20.0) /32/ and related tools.

It is confirmed there is a deviation on calculation of Build Margin when adopting the methodological tool - “Tool to calculate the emission factor for an electricity system” by the Chinese DNA in calculation of emission factors of regional power grids. The deviation has been approved by the EB Board in a response letter entitled “Request for clarification on use of approved methodology AM0005 for several projects in China”¹. The same deviation method has been adopted in this (2nd) crediting period (also this monitoring period) of the project activity. The same has been described in the renewed VCS PD.

The $EF_{grid,BM,y}$ and $EF_{grid,OM,y}$ determined ex-ante for this (2nd) crediting period are sourced from “2019 Baseline Emission Factors for Regional Power Grids in China” /28/ published by China DNA. It is confirmed that The deviation has no impact on conservativeness of the quantification of GHG emission reductions or removals.

3.3 Project Description Deviations

There were not project description deviations identified by CTI to this monitoring period. The verification team assessed through visual inspection and document review that all physical features of the

¹ http://cdm.unfccc.int/UserManagement/FileStorage/AM_CLAR_QEJWJEF3CFBP10ZAK6V5YXPQKK7WYJ

proposed project activity including data monitoring, reporting and collecting systems have been implemented in accordance with the renewed VCS PD. Details refer to section 4.1.

By checking Monitoring Report and Verification Report of previous (4th) VCS monitoring period, as well as renewed VCS PD, it is confirmed there is a project description deviation in previous VCS monitoring period, which was:

1. Deviation in relation with VCS crediting period

The project was registered under CDM scheme on 28/04/2011 (UNFCCC ID. 4734). By checking UNFCCC website (<https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1303442859.42/view>), the verification team confirmed that for the project activity, the first CDM crediting period is from 28/04/2011 to 27/04/2018. As per relevant CDM standard, the crediting period of the project could be renewed twice.

The project was registered under VCS scheme (VCS version 3) in 2011. In the Verification Report of initial VCS monitoring period, it was mentioned that the VCS crediting period is from 28/01/2011 to 27/04/2011. In the monitoring report, it was mentioned that the VCS crediting period was from 28/01/2011 to 27/01/2021. As per VCS version 3 under which the project was registered, the project crediting period is allowable for 10 years and could be renewed twice. Therefore, it is reasonable that the first VCS crediting period of project was determined as 28/01/2011 to 27/01/2021. This deviation has no impact on the applicability of the methodology, additionality or the appropriateness of the baseline scenario and meet all appropriate rules and requirements of VCS standard.

2. Deviation in relation with monitoring plan

As per the revised CDM PDD (approved by CDM EB), two solar projects (other projects) shared bi-directional gateway meter (M1 as main meter and M1' as backup meter with accuracy 0.2s) with the project activity. The quantity of net electricity generation supplied by the Project plant/unit to the grid ($EG_{\text{facility},y}$) is continuous monitored through 10 bi-directional meters installed at the 35kV side of 35kV/330kV transformer.

As per the renewed PD (version 02 dated 17/02/2022), the calculation method to transact the quantity of net electricity generation supplied by the project plant/unit to the grid ($EG_{\text{facility},y}$) of the project activity was adjusted by the project owner and local power grid company and the readings of the 10 electricity meters were not recorded since 01/01/2020 and PP used an alternative method to monitor the quantity of net electricity generation supplied by the project plant/unit to the grid ($EG_{\text{facility},y}$).

The quantity of net electricity generation supplied by the project plant/unit to the grid ($EG_{\text{facility},y}$) were continuously monitored through bi-directional gateway meter (M1 as main meter and M1' as backup meter with accuracy 0.2s) shared with two solar projects (other projects), as well as electricity meters MS1 (accuracy 0.5s) and MS2 (accuracy 0.5s), which measures the electricity output and input of two Solar Projects. The quantity of net electricity generation supplied by the project plant/unit to the grid ($EG_{\text{facility},y}$) was calculated through equations:

$$EG_{\text{facility},y} = EG_{\text{PJ to grid}, y} - EG_{\text{grid to PJ}, y}$$

$$EG_{\text{PJ to grid}, y} = EG - EG_{\text{solar1},y} - EG_{\text{solar2},y}$$

Where:

$EG_{\text{PJ to grid}, y}$ is the Electricity exported to the grid by the Project.

$EG_{\text{grid to PJ}, y}$ is the Electricity imported from the grid by the Project.

EG is the electricity exported to the grid measured by M1 (and/or M1').

$EG_{\text{solar1},y}$ is the electricity supply by the Solar Project I measured by MS1.

$EG_{\text{solar2},y}$ is the electricity supply by the Solar Project II measured by MS2.

The accuracy of all monitoring electricity meters, including M1 (accuracy 0.2s), M1' (accuracy 0.2s), MS1 (accuracy 0.5s) and MS2 (accuracy 0.5s) will not cause lower accuracy as compared with that stated in the revised CDM PDD "the accuracy of electricity meters is no less than 0.5S".

Furthermore, the electricity imported from the grid measure by M1 (total electricity imported from the grid by two solar projects and the project activity) is deemed as the Electricity imported from the grid by the Project, which is conservative.

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

As per renewed VCS PD (version 02 dated 17/02/2022), this is a permanent project deviation, which is applied to this (5th) VCS monitoring period. The same has been confirmed by CTI through checking monitoring system during site visit.

3.4 Grouped Project

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

4 VERIFICATION FINDINGS

This section summarizes the findings from the verification of the emission reductions reported for the “CECIC Gansu Yumen Changma No.3 Wind Farm Project” for the period 28/01/2021 to 31/12/2021.

4.1 Project Implementation Status

Project Implementation in accordance with the approved project design document

The project is a grid-connected wind power plant, which is located in 18-31 km southwest of Yumen Town, Yumen City, Gansu Province, P. R. China. The project activity installed 134 sets of 1.5 MW wind turbine-generator with a total installed capacity 201 MW.

The average annual power delivered to the grid by the project is expected to be 463,714 MWh. The actual implementation of the project during this monitoring period was verified in terms of name plate capacities of each wind turbine and monitoring equipment. The details of the wind turbines with respect to installation and capacity have been verified to be consistent with description indicated in the revised CDM PDD (approved by CDM EB). The commissioning start date of the first wind turbine was 28/01/2011, while fully commissioning of the project activity was on 23/10/2012, which was verified by site visit interview, checking verification reports of previous monitoring period /23/. The electricity generated by the project activity was supplied to the Northwest China Power Grid (NWPG), which can be confirmed by the Power Purchase Agreement (PPA) signed between CECIC Wind-power (Gansu) Co., Ltd. and State Grid Gansu Electric Power Company /3/.

The project start date was identified as 28/01/2011 when the first wind turbine started to operate and began generating GHG emission reductions. The 1st VCS crediting period of the project is from 28/01/2011 to 27/01/2021, while the 2nd VCS crediting period of the project is from 28/01/2021 to 27/01/2031. The selected monitoring period is from 28/01/2021 to 31/12/2021, which is within the 2nd VCS crediting period.

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

On-site training for the related procedures including monitoring, recording and reporting was verified to be in place /5/ and their implementation was confirmed by interview with the key operators /33/ and observing the operation.

As part of the site visit, CTI confirms that the project implementation is in accordance with the renewed VCS PD (version 02 dated 17/02/2022). The verification team confirmed through visual inspection and document review that all physical features of the proposed project activity including data collection

systems and storage systems have been implemented in accordance with the renewed VCS PD (version 02 dated 17/02/2022).

Compliance of monitoring plan with monitoring methodology

The verification team is able to confirm that the monitoring plan in the renewed VCS PD (version 02 dated 17/02/2022) is in accordance with the approved methodology applied by the project activity, i.e. ACM0002 (version 20.0).

Compliance of monitoring with the monitoring plan

The monitoring has been carried out in accordance with the renewed VCS PD (version 02 dated 17/02/2022). CTI confirms that all parameters stated in the monitoring plan are monitored and reported appropriately. All parameters required to be monitored by the monitoring plan as per the monitoring methodology ACM0002 (Version 20.0) and the management system were assessed during the site visit. The monitoring report lists each parameter required by the monitoring plan and the information flow (i.e. from data generation, aggregation, recording, calculation and reporting) for these parameters is provided. The information flow for the each parameter in further verified in the following sections.

Parameters monitored

By site interview, CTI confirmed that the project activity shares bi-directional electricity meters (M1 as main meter and M1' as backup meter) with two solar projects. The project activity and two solar projects belongs to the same project developer. Electricity generated by this project is sent to the Gansu Power Grid, which is part of the Northwest China Power Grid (NWPG). Based on the monitoring plan in renewed VCS PD (version 02 dated 17/02/2022), the parameters monitored for this project activity were:

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

Electricity exported to the grid by the Project ($EG_{\text{PJ to grid}, y}$)

Parameters $EG_{\text{facility},y}$ and $EG_{\text{PJ to grid}, y}$ are calculated through equations as follows:

$$EG_{\text{facility},y} = EG_{\text{PJ to grid}, y} - EG_{\text{grid to PJ}, y}$$

$$EG_{\text{PJ to grid}, y} = EG - EG_{\text{solar1},y} - EG_{\text{solar2},y}$$

Where:

$EG_{\text{PJ to grid}, y}$	=	Electricity exported to the grid by the Project
$EG_{\text{grid to PJ}, y}$	=	Electricity imported from the grid by the Project
EG	=	Electricity exported to the grid measured by M1 (and/or M1')
$EG_{\text{solar1},y}$	=	Electricity supply by the Solar Project I measured by MS1
$EG_{\text{solar2},y}$	=	Electricity supply by the Solar Project II measured by MS2

The calculated value of $EG_{grid\ to\ PJ,y}$ based on Meter Reading Records (MRRs) /7/ issued by the project developer was crosschecked with that in the Electricity Receipts /9/ issued by power grid company covering monitoring period. The conservative data will be used for calculation of emission reductions.

Electricity exported to the grid measured by M1 (and/or M1') (EG)

This parameter was continuously measured by bi-directional electricity meters (M1 as main meter and M1' as backup meter) installed at the 330kV side of 35kV/330kV transformer. When main meter M1 is not working, the reading of backup meter M1' will be used. By checking operation log /6/, it is confirmed that main meter M1 is working well during this monitoring period.

The meter reading was recorded monthly and archived electronically. In this monitoring period, the cut-off time was 24:00 hr of last day of the each month. At the cut-off time, the staff from project developer and the grid company read the electricity meters together. The project developer record electricity meter readings and form Monthly Reading Records (MRRs) /7/. The staff from power grid company record electricity meter readings, which is the basis for issuing Electricity Receipts /8/ of the project activity.

EG was sourced from Meter Reading Records (MRRs) /7/ issued by the project developer.

Electricity imported from the grid by the Project ($EG_{grid\ to\ PJ,y}$)

This parameter was continuously measured by bi-directional electricity meters (M1 as main meter and M1' as backup meter) installed at the 330kV side of 35kV/330kV transformer. When main meter M1 is not working, the reading of backup meter M1' will be used. By checking operation log /6/, it is confirmed that main meter M1 is working well during this monitoring period.

The meter reading was recorded monthly and archived electronically. In this monitoring period, the cut-off time was 24:00 hr of last day of the each month. At the cut-off time, the staff from project developer and the grid company read the electricity meters together. The project developer record electricity meter readings and form Monthly Reading Records (MRRs) /7/. The staff from power grid company record electricity meter readings, which is the basis for issuing Electricity Receipts /8/ of the project activity.

The electricity imported from the grid measure by M1 was total electricity imported from the grid by two solar projects and the project activity, and was deemed as the Electricity imported from the grid by the Project ($EG_{grid\ to\ PJ,y}$), which is conservative.

$EG_{grid\ to\ PJ,y}$ was sourced from Meter Reading Records (MRRs) /7/ issued by the project developer, and Electricity Receipts /9/ issued by power grid company covering monitoring period. The conservative data will be used for calculation of emission reductions.

Electricity supply by the Solar Project I measured by MS1 ($EG_{solar1,y}$)

This parameter was continuously measured by electricity meter MS1 installed at the 35kV transmission line of the Project site. By checking operation log /6/, it is confirmed that meter MS1 is working well during this monitoring period.

The meter reading was recorded monthly and archived electronically. In this monitoring period, the cut-off time was 24:00 hr of last day of the each month. At the cut-off time, the staff from project developer and the grid company read the electricity meters together. The project developer record electricity meter readings and form Monthly Reading Records (MRRs) /7/.

$EG_{solar1,y}$ was sourced from Meter Reading Records (MRRs) /7/ issued by the project developer.

Electricity supply by the Solar Project II measured by MS2 ($EG_{solar2,y}$)

This parameter was continuously measured by electricity meter MS2 installed at the 35kV transmission line of the Project site. By checking operation log /6/, it is confirmed that meter MS2 is working well during this monitoring period.

The meter reading was recorded monthly and archived electronically. In this monitoring period, the cut-off time was 24:00 hr of last day of the each month. At the cut-off time, the staff from project developer and the grid company read the electricity meters together. The project developer record electricity meter readings and form Monthly Reading Records (MRRs) /7/.

$EG_{solar2,y}$ was sourced from Meter Reading Records (MRRs) /7/ issued by the project developer.

As described above, the meters have been installed in accordance with VCS Program rules and meet all appropriate rules and requirements of VCS standard. CTI has on-site checked the location of the meters against the diagram of power connection system and found them to be consistent.

Data in the monthly reading records were used to the report, through a cross check with Electricity Receipts. The conservative values were used for the monitoring report and ERs calculation spreadsheet, which has been verified by the verification team. Supporting references and data required to determine the net electricity supplied to the grid by the project is found to be complete and transparent.

Monitoring equipment and calibration

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

No.	Serial Number	Accuracy class	Calibration Frequency	Calibration date	Validity
M1 (Main meter)	57033315	0.2s	Annually	02/09/2020 25/08/2021	01/09/2021 24/08/2022
M1' (Backup meter)	57033312	0.2s	Annually	02/09/2020 25/08/2021	01/09/2021 24/08/2022

MS1	111520042063	0.5s	Annually	02/03/2020 20/02/2021	01/03/2021 19/02/2022
MS2	111520042064	0.5s	Annually	02/03/2020 20/02/2021	01/03/2021 19/02/2022

The meter M1 and M1' were calibrated by Electric Energy Measurement Centre of Gansu Electric Power Corporation, while merer MS1 and MS2 were calibrated by Shenzhen Zhongdian Metrology and Testing Technology Co., Ltd.. Calibration records and accreditation certificates /26//27//24//25/ have been verified by the verification team. The accuracy of all meters are comply with that in the monitoring plan of renewed VCS PD (version 02 dated 17/02/2022). By checking the industrial metering configuration standard "Technical Administrative Code of Electric Energy Metering (DL/T 448-2016)" /15/, CTI can confirm that the accuracy level of all meters meet the requirement stipulated in this standard. In conclusion, the verification team can confirm that the accuracy of the meters is in line with monitoring plan of the renewed VCS PD (version 02 dated 17/02/2022) and relevant industry standard.

In the monitoring plan of renewed VCS PD (version 02 dated 17/02/2022), it stated that the meters will be calibrated and checked annually for accuracy. By checking the calibration reports, the verification team found the calibration frequency of these meters is annual, which is in line with the calibrating standard "Technical Administrative Code of Electric Energy Metering (DL/T 448-2016)" /15/. Hence, the verification team can confirm that the meters' calibration frequency is in line with monitoring plan of the renewed VCS PD (version 02 dated 17/02/2022) and relevant industry standard, and the calibrations of meters are verified to be valid for the whole reporting period.

Data management and control

CECIC Wind-power (Gansu) Co., Ltd. is responsible for operation and routine maintenance of power plant under the project activity. The quality assurance and quality control procedures have been addressed in the VER project management and monitoring manual /4/, including the organization structure with the responsibilities, personnel competencies, monitoring procedures and monitoring management. By interview with the staff /33/ and check records /4/-/6/ during on-site visit, it can be confirmed that the monitoring management system is implemented following the project management and monitoring manual.

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

By checking UNFCCC website (<https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1303442859.42/view>), it is confirmed by CTI that the project has been registered as CDM project activity on 28/04/2011 with reference No. 4734. GHG emission reductions of 1,348,338 tCO₂ have been issued as CERs from 28/04/2011 to 31/12/2015 under CDM scheme. There are no CDM issuance during this monitoring

period. Furthermore, CTI checked public information from the REC Mechanism database of China, Chinese Emission Trading System, Gold Standard Registry and interviewed with project owner during site visit, it is confirmed that except CDM and VCS scheme, the project has not been participated or been rejected under any other GHG programs since validation or previous verification.

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

By checking the renewed VCS PD (version 02 dated 17/02/2022), China's National Plan on Implementation of the 2030 Agenda for Sustainable Development and 17 SDGs defined by UNDP, and interviewing with stakeholders during site visit, the verification team confirmed that the project would contribute to sustainable development in as below:

- SDG 13: Reducing greenhouse gas emissions compared to a business-as-usual scenario. During this monitoring period, the emission reductions achieved were 348,411tCO₂e. By checking UNFCCC website (<https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1303442859.42/view>) and VERRA website 728), it is confirmed that since operation of the project activity, the cumulative emission reductions achieved were 3,291,424tCO₂e.

- SDG 7: Providing clean and renewable energy source and displacing the power generation of fossil fuel power plants, reducing pollution emissions caused by coal burning significantly, thus mitigating the air pollution and its adverse impacts on human health, promoting sustainable economic development in local area. During this monitoring period, the renewable energy supplied to the power grid was 447,464.841MWh. By checking UNFCCC website (<https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1303442859.42/view>) and VERRA website 728), it is confirmed that since operation of the project activity, the cumulative renewable energy supplied to CSPG was 3,660,878.67MWh.

- SDG 8: Providing direct and indirect employment opportunities during construction and operation period, which promotes sustained, inclusive and sustainable economic growth, full and productive employment and decent work for local residents. By checking staff roster listed in Appendix I of the MR, it is confirmed that since operation of the project activity, 15 long term working opportunities, including 7 females and 8 males, are provided.

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

Item	FD82A/1500
1. Data for Unit	
Rated capacity (kW)	1500
Number of unit	134
Capacity control method	Adjusting the pitch of blade and wind wheel speed control
Turbine diameter (m)	82
Hub height (m)	70
Cut in wind speed (m/s)	3.0
Rated wind speed(m/s)	11

Cut out wind speed (m/s)	20.0
Wind speed limit (m/s)	52.5
Operating temperature(°C)	-20~+40
The wind direction	Upwind
Technical lifetime (y)	20
2.Blade	
Number of blades	3
Material of blade	GRP
End profiles of blades speed(m/s)	74.3
3.Generator	
Type of generator	Double-fed slip ring asynchronous generator
Rated capacity (kW)	1500
Output Voltage (V)	690
Rated speed (rpm)	1000~1800±10%
4.Machinery space & Tower	
Machinery space (t) (exclude blade)	61
blade	3x6.2
Type of tower	Conical steel tube
High of tower (m)	70
Weight of tower (t)	127.66

The verification team confirmed that there is no proposed or actual change to monitoring plan of renewed VCS PD (version 02 dated 17/02/2022) during this monitoring period. All required equipments and procedures are available and implemented in an appropriate manner. All necessary monitoring instruments are installed. All required instruments including standby and operating procedures for the same have been implemented in an appropriate manner. The project is completely operational and the same has been confirmed on-site. Neither mistakes nor malfunction on main meters have been observed during this monitoring period.

4.2 Safeguards

4.2.1 No Net Harm

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

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

4.2.2 Local Stakeholder Consultation

As per the registered CDM PDD, on 18/06/2008, a stakeholder consultation meeting was held in local area and 45 participants attended the meeting. During the stakeholder meeting, a one-page questionnaire, which was designed to be easily filled in, were distributed. 45 copies of questionnaire were distributed, and 45 pieces of reply were received. The opinions expressed by the stakeholders were recorded and are available on request.

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

By checking the filled questionnaires from local stakeholders, it is confirmed by the verification team that communications with local stakeholders was being carried out in August 2021 by the project owner in this monitoring period. There are no negative comments received for the project.

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

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

4.3 AFOLU-Specific Safeguards

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

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

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

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

$$ER_y = BE_y - PE_y$$

Baseline emissions

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

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

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

EF is the grid emission factor of the which has been verified ex-ante in the validation stage in the renewed VCS PD (version 02 dated 17/02/2022) as 0.779325 tCO₂e/MWh for the crediting period.

the quantity of net electricity generation supplied by the Project plant/unit to the grid in year y ($EG_{\text{facility},y}$)

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

$$\begin{aligned} EG_{\text{facility},y} &= EG_{\text{PJ to grid}, y} - EG_{\text{grid to PJ}, y} \\ &= EG - EG_{\text{solar1},y} - EG_{\text{solar2},y} \end{aligned}$$

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

Period	Electricity exported to the grid by the Project (EG _{PJ to grid,y}) (MWh)	Electricity imported from the grid by the Project (EG _{grid to PJ, y}) (MWh)	Data from meter readings			
			M1		MS1	MS2
			Electricity exported to the grid measured by M1 (EG)	Electricity imported from the grid measured by M1	Electricity supply by the Solar Project I measured by MS1 (EG _{solar1,y})	Electricity supply by the Solar Project I measured by MS2 (EG _{solar2,y})
	A = C - E - F	B = D	C	D	E	F
28/01/2021-31/01/2021	8,423.796	26.400	9368.040	26.400	489.090	455.154
01/02/2021-28/02/2021	45,359.694	52.800	52044.960	52.800	3532.431	3152.835
01/03/2021-31/03/2021	41,159.991	26.400	47118.720	26.400	3029.922	2928.807
01/04/2021-30/04/2021	52,404.663	26.400	60899.520	26.400	4503.345	3991.512
01/05/2021-31/05/2021	45,639.459	26.400	55527.120	26.400	5101.320	4786.341
01/06/2021-30/06/2021	34,023.774	26.400	42174.000	26.400	4254.117	3896.109
01/07/2021-31/07/2021	37,480.242	26.400	45872.640	26.400	4381.041	4011.357
01/08/2021-31/08/2021	35,550.837	26.400	45017.280	26.400	4951.653	4514.790
01/09/2021-30/09/2021	32,412.639	26.400	40859.280	26.400	4423.398	4023.243
01/10/2021-31/10/2021	43,309.467	52.800	51516.960	52.800	4231.920	3975.573
01/11/2021-30/11/2021	38,886.972	26.400	46601.280	26.400	4064.907	3649.401
01/12/2021-31/12/2021	32,813.307	52.800	40069.920	52.800	3747.282	3509.331
Total	447,464.841	396.000	537069.720	396.000	46710.426	42894.453

Period	EG _{PJ to grid, y} Electricity exported to the grid by the Project			EG _{grid to PJ, y} Electricity imported from the grid by the Project			EG _{facility, y}
	data from meter readings	data from electricity sales receipts	data used to calculate the ER	data from meter readings	data from electricity purchase receipts	data used to calculate the ER	
	A	B	C=MIN(A,B)	D	E	F=MAX(D, E)	
28/01/2021-31/01/2021	8,423.796	8,423.796	8,423.796	26.400	26.400	26.400	8,397.396
01/02/2021-28/02/2021	45,359.694	45,359.694	45,359.694	52.800	52.800	52.800	45,306.894
01/03/2021-31/03/2021	41,159.991	41,159.991	41,159.991	26.400	26.400	26.400	41,133.591
01/04/2021-30/04/2021	52,404.663	52,404.663	52,404.663	26.400	26.400	26.400	52,378.263
01/05/2021-31/05/2021	45,639.459	45,639.459	45,639.459	26.400	26.400	26.400	45,613.059
01/06/2021-30/06/2021	34,023.774	34,023.774	34,023.774	26.400	26.400	26.400	33,997.374
01/07/2021-31/07/2021	37,480.242	37,480.242	37,480.242	26.400	26.400	26.400	37,453.842
01/08/2021-31/08/2021	35,550.837	35,550.837	35,550.837	26.400	26.400	26.400	35,524.437
01/09/2021-30/09/2021	32,412.639	32,412.639	32,412.639	26.400	26.400	26.400	32,386.239
01/10/2021-31/10/2021	43,309.467	43,309.467	43,309.467	52.800	52.800	52.800	43,256.667
01/11/2021-30/11/2021	38,886.972	38,886.972	38,886.972	26.400	26.400	26.400	38,860.572
01/12/2021-31/12/2021	32,813.307	32,813.307	32,813.307	52.800	52.800	52.800	32,760.507
Total	447,464.841	447,464.841	447,464.841	396.000	396.000	396.000	447,068.841

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

Years	EG _{facility,y} (MWh)	EF _{grid,CM,y} (tCO ₂ /MWh)	BE _y (tCO ₂)
28/01/2021 - 31/12/2021	447,068.841	0.779325	348,411
Total	447,068.841	/	348,411

Since the transaction date was 24:00 of last day of each month, by checking the statement from local power grid company, the verification team verified that the electricity exported to the grid by the Project and electricity imported from the grid by the Project from the period from 28/01/2021 to 31/01/2021 has been confirmed by local Grid company.

Hence, the corresponding baseline emission reductions are calculated as:

$$BE_y = EG_{\text{facility},y} \times EF_{\text{grid},CM,y} = 447,068.841 \times 0.779325 = 348,411 \text{ tCO}_2\text{e}$$

Project emissions

As statement in the renewed VCS PD, for the wind power activities, the project emissions from the project is zero. Hence, PE_y during the monitoring period from CECIC Gansu Yumen Changma No.3 Wind Farm Project is zero.

Leakages

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

Emission reductions

The emission reductions for this monitoring period was calculated as:

Monitoring period	GHG emission reductions or removals (tCO ₂ e)
28/01/2021 - 31/12/2021	348,411
Total ERs claimed (in 338 days)	348,411

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

The emission reductions claimed are 348,411 tCO₂e in this monitoring period (i.e. 338 days). Compared with yearly expected emission reductions 334,651 tCO₂e (calculated as 361,383*338d/365d) in the renewed VCS PD, the reported emission reductions in this monitoring period are 4.11% higher than the expected, which is considered to be in the reasonable variation range.

By checking registered CDM PDD, it is confirmed that when the power generation is increased by 10%, the IRR will be 6.54%, lower than the benchmark. Hence, 4.11% increase of power generation during this monitoring period will not impact the additionality of the project activity.

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

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

All necessary documentations are collected, referenced and aggregated, which is easily accessible in hard-copy or electronic format. Measurements are performed by calibrated equipment, and the key data can also be cross-checked via other sources, such as records, receipts and inventory data. No assumptions are used that have any material influence on reported emission reductions.

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

4.6 Non-Permanence Risk Analysis

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

5 VERIFICATION CONCLUSION

Shenzhen CTI International Certification Co., Ltd (CTI) has performed the verification of the emission reductions that have been reported for the project activity “CECIC Gansu Yumen Changma No.3 Wind Farm Project” in China (VCS Project ID: 728) for the period 28/01/2021 to 31/12/2021.

The verification is based on the baseline and monitoring methodology ACM0002 (version 20.0), and renewed VCS PD (version 02 dated 17/02/2022). The verification consisted of the following three phases: i) desk review of the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification and certification report.

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

Our verification approach was based on the requirements as defined under the applicable VCS Version 4 and relevant UNFCCC requirements. Our approach is risk-based, drawing on an understanding of the

risks associated with reporting GHG emissions data and the controls in place to mitigate these. The verification can confirm that:

- the project is implemented and operated as per renewed VCS PD (version 02 dated 17/02/2022);
- the monitoring plan in renewed VCS PD (version 02 dated 17/02/2022) is as per the applied methodology;
- the monitoring complies with the monitoring plan in the renewed VCS PD (version 02 dated 17/02/2022);
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS Version 4 and CDM requirements;
- the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.

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

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

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

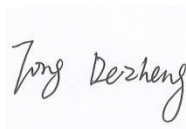
In CTI's opinion the GHG emissions reductions of the "CECIC Gansu Yumen Changma No.3 Wind Farm Project" for the period 28/01/2021 to 31/12/2021 are fairly stated in the monitoring report (version 02 dated 29/03/2022). The GHG emission reductions were calculated correctly on the basis of the approved methodology ACM0002 (version 20.0) and the monitoring plan contained in the renewed VCS PD (version 02 dated 17/02/2022).

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

Verification period: From 28/01/2021 to 31/12/2021

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

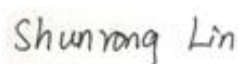
Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
28/01/2021 - 31/12/2021	348,411	0	0	348,411
Total	348,411	0	0	348,411



Mr. Tong Dezheng

Team Leader

20/07/2022



Ms. Lin Shunrong

Technical Reviewer

20/07/2022

APPENDIX A: ABBREVIATIONS

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

APPENDIX B: REFERENCES

Documentation used to verify the information provided by the project proponents

- /1/ Profit Carbon Environmental Energy Technology (Shanghai) Co., Ltd.: VER/VCU Monitoring Report for CECIC Gansu Yumen Changma No.3 Wind Farm Project, version 01 dated 23/03/2022, version 02 dated 29/03/2022
- /2/ Profit Carbon Environmental Energy Technology (Shanghai) Co., Ltd.: Emission reduction calculation spreadsheet for CECIC Gansu Yumen Changma No.3 Wind Farm Project, version 01 dated 23/03/2022, version 02 dated 29/03/2022
- /3/ CECIC Wind-power (Gansu) Co., Ltd. and State Grid Gansu Electric Power Company: Power Purchase Agreement for CECIC Gansu Yumen Changma No.3 Wind Farm Project.
- /4/ CECIC Wind-power (Gansu) Co., Ltd.: VER monitoring manual and management procedure.
- /5/ CECIC Wind-power (Gansu) Co., Ltd.: Records of training for on-site staff.
- /6/ CECIC Wind-power (Gansu) Co., Ltd.: Operation log sheets, from 28/01/2021 to 31/12/2021.
- /7/ CECIC Wind-power (Gansu) Co., Ltd.: Monthly reading records (MRRs) of CECIC Gansu Yumen Changma No.3 Wind Farm Project from 28/01/2021 to 31/12/2021.
- /8/ Gansu Power Grid Company: Electricity Receipts of Electricity exported to the grid by the Project from 28/01/2021 to 31/12/2021.
- /9/ Gansu Power Grid Company: Electricity Receipts of Electricity imported from the grid by the Project, from 28/01/2021 to 31/12/2021.
- /10/ Profit Carbon Environmental Energy Technology (Shanghai) Co., Ltd.: the revised CDM PDD (approved by CDM EB), version 11.0 dated 02/07/2012.
- /11/ Registered VCS PD version 10.2 dated 20/04/2011.
- /12/ Renewed VCS PD (version 02 dated 17/02/2022)
- /13/ Validation Report of renewed VCS PD (Version 02.0 dated 18/02/2022)
- /14/ CECIC Wind-power (Gansu) Co., Ltd.: nameplate of the equipment
- /15/ State Economic and Trade Commission: Technical administrative code of electric energy metering (DL/T 448-2016).
- /16/ SGS United Kingdom Limited: Validation opinion for revision of registered monitoring plan, version 1 dated 25/07/2012

- /17/ TÜV Rheinland Japan Ltd.: the Validation Report of registered CDM PDD, Version 05 dated 20/04/2011
- /18/ UNFCCC website: CDM Monitoring Reports for CECIC Gansu Yumen Changma No.3 Wind Farm Project of previous monitoring periods
- /19/ SGS United Kingdom Limited: CDM Verification Reports for CECIC Gansu Yumen Changma No.3 Wind Farm Project of previous monitoring periods
- /20/ Business License of Beijing Jingneng Clean Energy Co., Ltd
- /21/ Questionnaires to collect comments about project implementation from local stakeholders in this monitoring period
- /22/ Profit Carbon Environmental Energy Technology (Shanghai) Co., Ltd.: VCS Monitoring Report for CECIC Gansu Yumen Changma No.3 Wind Farm Project of previous monitoring periods
- /23/ LGAI Technological Center, S.A. (Applus+ Certification): VCS Verification Report for CECIC Gansu Yumen Changma No.3 Wind Farm Project of previous monitoring periods
- /24/ China National Accreditation Service for Conformity Assessment: Accreditation certificate of Shenzhen Zhongdian Metrology and Testing Technology Co., Ltd. valid till 20/11/2023.
- /25/ Shenzhen Zhongdian Metrology and Testing Technology Co., Ltd.: Calibration certificates for meters covering this monitoring period.
- /26/ Gansu Provincial Quality and Technical Supervision Bureau: Accreditation certificate of Electric Energy Measurement Centre of Gansu Electric Power Corporation valid till 28/09/2022.
- /27/ Electric Energy Measurement Centre of Gansu Electric Power Corporation: Calibration certificates for meters covering this monitoring period.
- /28/ China DNA: 2019 Baseline Emission Factors for Regional Power Grids in China issued on 29/12/2020
https://www.mee.gov.cn/ywgz/ymqhbh/wsqtzk/202012/t20201229_815386.shtml

Methodologies, tools and other guidance

- /29/ Verified Carbon Standard: VCS Standard, version 4.2.
- /30/ Verified Carbon Standard: VCS Program Guide, version 4.1.
- /31/ Verified Carbon Standard: Registration and Issuance Process, version 4.1.
- /32/ UNFCCC EB: Approved methodology, ACM0002, version 20.0

Persons interviewed

- /33/ Mr. Chen Weilin, Director of Monitoring Team, CECIC Wind-power (Gansu) Co., Ltd.
- Ms. Wang Fan, Staff of Monitoring Team, CECIC Wind-power (Gansu) Co., Ltd.
- Mr. Wang Haiyang, Staff of Monitoring Team, CECIC
- Mr. Li Guodong, Staff of Monitoring Team, CECIC
- Mr. Luo Yongding, local resident, LuoJiazhuang Village
- Ms. Ge Hongxiu, local resident, Gejiazhuang Village
- Mr. Xie Shenghua, Staff, Local Environment Protection Bureau
- Mr. Chen Xingguo, Staff, Local Environment Protection Bureau
- Mr. Cheng Xiaoyu, Project Manager, Profit Carbon Environmental Energy Technology (Shanghai) Co., Ltd.
- Mr. Wang Xuyang, Project Manager, Profit Carbon Environmental Energy Technology (Shanghai) Co., Ltd.
- Mr. Wu Song, Project Manager, Profit Carbon Environmental Energy Technology (Shanghai) Co., Ltd.

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

Table 1: Corrective Action Requests

CAR ID	Corrective Action Request	Response by Project Proponent	Verification Team Assessment
01	Please supplement “Table 1: Sustainable Development Contributions” as requested in “VCS-Monitoring-Report-Template-v4.1” in the MR, and provide evidence of the project’s SD contributions in appendices of the MR.	The Table 1: Sustainable Development Contributions” as requested in “VCS-Monitoring-Report-Template-v4.1 has been added in section 1.11. In addition, the evidences of project’s SDGs contributions have been added in appendices of the MR, please refer APPENDIX I.	By checking the updated MR, it is confirmed that “Table 1: Sustainable Development Contributions” as requested in “VCS-Monitoring-Report-Template-v4.1” has been supplemented. The evidences have been provided in the appendix of the MR. All these have been verified by CTI to be correct. Therefore, CAR 01 is closed.

CAR ID	Corrective Action Request	Response by Project Proponent	Verification Team Assessment
02	Please supplement monitoring information of parameters including EG, EG _{PJ to grid, y} , EG _{grid to PJ, y} , EG _{solar1,y} and EG _{solar2,y} .	The monitoring information of parameters including EG, EG _{PJ to grid, y} , EG _{grid to PJ, y} , EG _{solar1,y} and EG _{solar2,y} have been added in section 4.2.	The monitoring information of parameters, including EG, EG _{PJ to grid, y} , EG _{grid to PJ, y} , EG _{solar1,y} and EG _{solar2,y} , have been supplemented in the updated MR and verified by CTI to be in complied with the renewed PD. Therefore, CAR 02 is closed.

Table 2: Clarification Requests

CL ID	Clarification Request	Response by Project Proponent	Verification Team Assessment
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NA	NA	NA	NA
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Table 3: Forward Action Requests

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