



VCS VERIFICATION REPORT

CECIC HKC GANSU CHANGMA WIND
POWER PROJECT

(VCS PROJECT ID: 717)



Document Prepared By

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Summary:

Shenzhen CTI International Certification Co., Ltd (CTI) has performed the verification of the emission reductions reported for the project activity "CECIC HKC Gansu Changma Wind Power project" (VCS Project ID: 717) for the monitoring period 01/01/2021 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 4.2 and VCS Standard version 4.3 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 3 CARs, 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 15/11/2022) are fairly stated. The GHG emission reductions of the period from 01/01/2021 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 VCUs shall be made by the project proponent to an approved VCS Program Registry based on the requirements set out under the most recent version of the VCS Program Guidelines

clause on VCS Registration.

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

Hence, CTI is able to certify that the emission reductions from the “CECIC HKC Gansu Changma Wind Power project” during the period amount to 359,841 tCO₂e.

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1 INTRODUCTION

Demeter Venture UK Limited has commissioned Shenzhen CTI International Certification Co., Ltd (CTI) to carry out the verification and certification of emission reductions reported for the “CECIC HKC Gansu Changma Wind Power project” (the project) for the period 01/01/2021 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 HKC Gansu Changma Wind Power project” for the period 01/01/2021 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 4.2) /31/
- VCS Standard (version 4.3) /30/ and other relevant requirements defined by Verra;
- The approved methodology ACM0002 (version 20.0) /33/ 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 4.3).

1.4 Summary Description of the Project

Sectoral Scope and Project Type

According to the VCS Program Guide (version 4.2) /31/, 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 HKC Gansu Changma Wind Power project
Project proponent:	CECIC HKC Gansu Wind Power Co., LTD. (China)
Project location:	7-10 km southwest of Yumen Town, Yumen City, Gansu Province in the People's Republic of China
VCS Project ID:	717
Applied methodology:	ACM0002 version 20.0
VCS project crediting period:	21/11/2009 to 20/11/2019 (the first VCS crediting period) 21/11/2019 to 20/11/2029 (the second VCS crediting period)
VCU verification period:	01/01/2021 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 4.3) 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 monitoring report /1/, revised CDM PDD (approved by CDM EB) (Version 3.2 dated 20/08/2012) /10/, registered VCS PD (Version 01 dated 20/10/2011) /11/, renewed VCS PD (Version 2.0 dated 20/01/2021) /12/ and emission reduction calculation spreadsheet /2/, the following documents also were assessed as a part of the verification audit:

- Validation Opinion on changes in PDD (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 /33/;
- Relevant decisions, clarifications and guidance from the Verra /30/-/32/; and
- Other information and references relevant to the project activity.

The references used in the course of this verification are summarized in Appendix B.

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 31/10/2022, CTI visited CECIC HKC Gansu Wind Power Co., LTD. performed on-site assessment. The key personnel of the project were interviewed or assisted the verification team. 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 are summarized in the table below:

Interviewed personnel	Role	Organization	Subject
Mr. Li Wei	Manager	CECIC HKC Gansu Wind Power Co., LTD.	Operation of the project activity; Implementation of the monitor plan of the project activity; Data collection and data achievement; Calibration of meters and equipment maintenance;
Mr. Zhang Pu	Staff	CECIC HKC Gansu Wind Power Co., LTD.	
Mr. Sun Wenxue	Staff	CECIC HKC Gansu Wind Power Co., LTD.	
Ms. Yang Hongxia	Local resident	Dama Village, Sanshilipu Town	The impact of the project activity; The complaint by local stakeholders; The stakeholder consultation during the operation of the project activity.
Ms. Zhang Feifei		Changguo Village, Jiangdian Town	
Mr. Su Chengsheng		Xiaoxin Village, Sanshilipu Town	
Mr. Yu Zongzhuang		Xuguantun Village, Yinji Town	
Ms. Xu Chunyan		Yanzhuang Village, Xianguhe Town	
Mr. Xu Xuesheng	Staff	Local Environment Protection Bureau	
Mr. Li Zhuan	Staff	Local Development and Reform Committee	
Mr. Teng Haipeng	Project Manager	Demeter Venture UK Limited	Data collection and ER calculation.

2.4 Site Inspections

The verification team performed the on-site verification (7-10 km southwest of Yumen Town, Yumen City, Gansu Province in the People's Republic of China) on 31/10/2022. 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 HKC Gansu Wind Power 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 3 CARs 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 31/05/2011 /17/. The revised CDM PDD (approved by CDM EB) of the project activity was validated by SGS United Kingdom Limited on 30/08/2012 /16/. The renewed VCS PD was validated by LGAI Technological Center, S.A. (Applus+ Certification). 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 LGAI Technological Center, S.A. (Applus+ Certification) on 20/01/2021 under VCS version 4. 5 periodic verifications have been carried out by SGS United Kingdom Limited on 23/08/2012, 28/11/2012 and 28/11/2013, and by CTI on 15/04/2015 and 04/03/2016 under CDM scheme. The proposed VCS monitoring period 01/01/2021 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.

Furthermore, CTI conducted verification less than six consecutive years and thereby is in compliance with para 4.1.20 of VCS standard version 4.3, which stated that “A validation/verification body may not verify more than six consecutive years of a project’s GHG emission reductions or removals. The validation/verification body may undertake further verification for the project only when at least three years of the project’s GHG emission reductions or removals have been verified by a different validation/verification body”.

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 31/05/2011 /17/. The revised CDM PDD of the project activity was validated by SGS United Kingdom Limited on 30/08/2012 under CDM scheme /16/. The renewed VCS PD was validated by LGAI Technological Center, S.A. (Applus+ Certification) on 20/01/2021 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) /33/. There was not any methodology deviation applied to this project. Details refer to section 4.1.

3.3 Project Description Deviations

There is a project description deviation in relation with type of wind turbines and electricity metering system of the project activity. By checking the revised CDM PDD approved by CDM EB, it was identified that:

1. In the registered CDM PDD, the type of wind turbine is FD77/1500 while in the revised CDM PDD, the same has been revised to FD77A/1500.

2. In the registered CDM PDD, the project boundary involves electricity meter M1 and M2 and the electricity was delivered to the grid via one 35kV/110kV transformer, while in the revised CDM PDD, the project boundary involves 4 electricity meters Ma1, Ma2, Mb1 and Mb2 and the electricity was delivered to the grid via two 35kV/110kV transformers. Please refer to figure 1 and 2 below for detail.

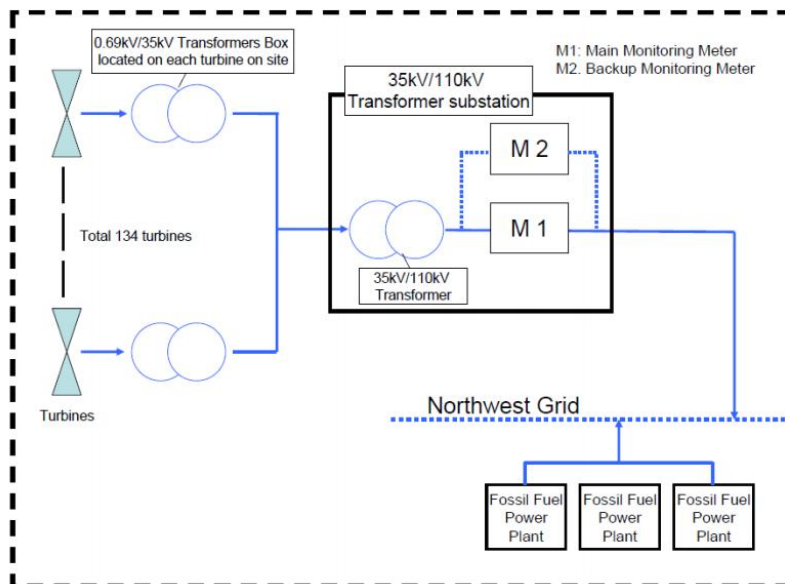


Figure 1 Project boundary of the registered CDM PDD

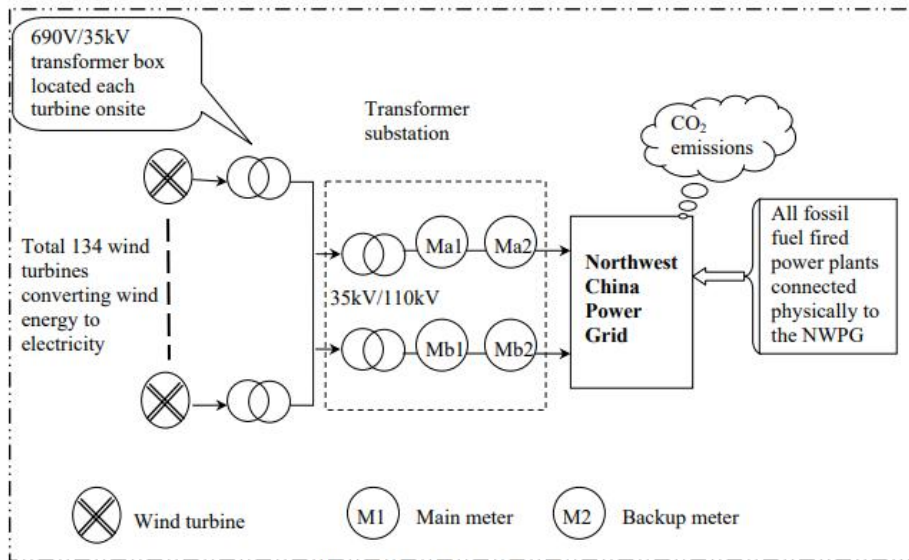


Figure 2 Project boundary of the revised CDM PDD

The verification team confirmed that this 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. Besides, the revised CDM PDD has been approved by CDM EB on 27/11/2012.

By checking renewed VCS PD /13/ and monitoring report (version 02 dated 15/11/2022) /1/, it is confirmed that the deviation is applicable to this crediting period and also this monitoring period.

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 HKC Gansu Changma Wind Power project” for the period 01/01/2021 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 7-10 km southwest of Yumen Town, Yumen City, Gansu Province in the People's Republic of 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 431,949 MWh. The actual implementation of the project during this monitoring period was verified in terms of name plate capacities of each wind turbine and monitoring equipment. The details of the wind turbines with respect to installation and capacity have been verified to be consistent with description indicated in the renewed VCS PD. The commissioning start date of the first wind turbine was 21/11/2009, while fully commissioning of the project activity was on 15/02/2011, which was verified by site visit interview, checking verification reports of previous monitoring period /22//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 HKC Gansu Wind Power Co., LTD. and State Grid Gansu Electric Power Company /3/.

The project start date was identified as 21/11/2009 when the first wind turbine started to operate and began generating GHG emission reductions. The 1st VCS crediting period of the project is from 21/11/2009 to 20/11/2019, while the 2nd VCS crediting period of the project is from 21/11/2019 to 20/11/2029. The selected monitoring period is from 01/01/2021 to 31/12/2021, which is within the 2nd VCS crediting period.

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

Item	FD77A/1500
1. Data for Unit	
Rated capacity (kW)	1500
Number of unit	134
Capacity control method	Pitch-controlled
Turbine diameter (m)	77
Hub height (m)	70
Cut in wind speed (m/s)	3.0
Rated wind speed (m/s)	12.5
Cut out wind speed (m/s)	20
Wind speed limit (m/s)	53.3

Technical lifetime (y)	20
Material of blade	GRP
Blade tip speed (m/s)	69.6
2. Generator	
Type of generator	Double-fed induction generator
Rated capacity (kW)	1500
Output Voltage (V)	690
Rated speed (rpm)	1000-1800 (+10.0%)

Via onsite investigation and checking daily operation and maintenance records /6/, the verification team confirmed that:

- there is no proposed or actual change to the renewed VCS PD during this monitoring period;
- all required equipments and procedures are available and implemented in an appropriate manner;
- the project is completely operational and all necessary monitoring instruments are installed;
- all required instruments including standby and operating procedures for the same have been implemented in an appropriate manner;
- neither mistakes nor malfunction on main meters have been observed during this monitoring period.
- the control system at the power plant is automated and assures continuous operation, including monitoring on malfunction of equipment;
- no serious malfunction happened and the plant was under a normal operation as expected in this monitoring period.

Furthermore, 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 and observing the operation. The monitoring structure and responsibility of personnel, as well as internal auditing process have been verified during site visit and confirmed to be in compliance with the the monitoring plan contained in the renewed VCS PD (Version 2.0 dated 20/01/2021).

In conclusion, as part of the site visit, CTI confirms that:

- the monitoring plan contained in the renewed VCS PD (Version 2.0 dated 20/01/2021) is in accordance with the approved methodology applied by the project activity, i.e. ACM0002 (Version 20.0);
- the project implementation is in accordance with the renewed VCS PD (Version 2.0 dated 20/01/2021);
- all the monitoring system in operation period is in accordance with the renewed VCS PD (Version 2.0 dated 20/01/2021);
- 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 2.0 dated 20/01/2021) through visual inspection and document review.

Participation or any rejection under any other GHG programs, any other form of environmental credit or emissions trading program since validation or previous verification

By checking UNFCCC website (<https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1272607295.17/view>), it is confirmed by CTI that the project has been registered as CDM project activity on 24/09/2011 with reference No. 3670. GHG emission reductions of 1,670,691 tCO₂ have been issued as CERs from 24/09/2011 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 VCUs 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.

SD contributions resulted by implementation of the project activity

By checking the renewed VCS PD (Version 2.0 dated 20/01/2021), 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 359,841tCO₂e. By checking UNFCCC website (<https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1272607295.17/view>) and VERRA website, it is confirmed that since operation of the project activity, the cumulative emission reductions achieved were 4,829,865tCO₂e.
- 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 461,757.352MWh. By checking UNFCCC website (<https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1272607295.17/view>) and VERRA website, it is confirmed that since operation of the project activity, the cumulative renewable energy supplied to CSPG was 4661615.523MWh.
- 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, 27 long term working opportunities are provided.

The verification team confirmed that there is no proposed or actual change to monitoring plan of renewed VCS PD (Version 2.0 dated 20/01/2021) 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 /29/ and conclusion provided in the registered VCS PD, it is confirmed that wind power is green power and the impact caused by wind power on the surrounding ecosystem and residents, wastewater, solid waste and atmosphere etc. is very little, there would be no net harm caused due to the project activity. Also, the EIA of the project /29/ 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 VCS PD, on 06/03/2008, a stakeholder consultation meeting was held in local area (Yumen County) and 44 participants attended the meeting. During the stakeholder meeting, a one-page questionnaire, which was designed to be easily filled in, were distributed. 44 copies of questionnaire were distributed, and 44 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.

Through interviewing with local residents and checking the grievance book during site visit, it is confirmed that a grievance book is put at the project owner office. The local stakeholders can provide feedbacks on the grievance book. By checking the grievance book /21/, it is confirmed that no negative comments were received. Via interviewing with staff from local environmental protection bureau during the site visit, it is confirmed by the assessment 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, there were no negative comments or issues from the local stakeholders during this monitoring period, the project passed all the periodic spot checks by local government.

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

4.3 AFOLU-Specific Safeguards

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

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

The monitoring has been carried out in accordance with the renewed VCS PD (Version 2.0 dated 20/01/2021). CTI confirms that all parameters stated in the monitoring plan are monitored and reported appropriately. All parameters required to be monitored by the monitoring plan as per the monitoring methodology ACM0002 (Version 20.0) and the management system were assessed during the site visit. The monitoring report lists each parameter required by the monitoring plan and the information flow (i.e. from data generation, aggregation, recording, calculation and reporting) for these parameters is provided. The information flow for the each parameter is further verified in the following sections.

Parameters monitored

Based on the monitoring plan in renewed VCS PD (Version 2.0 dated 20/01/2021), 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 ($EG_{\text{facility},y}$)**

$EG_{\text{facility},y}$ is calculated through equation below:

$$EG_{\text{facility},y} = EG_{\text{export},y} - EG_{\text{import},y}$$

Where:

$EG_{\text{export},y}$ = Quantity of electricity exported to the grid by the Project

$EG_{\text{import},y}$ = Quantity of electricity imported from the grid by the Project

Quantity of electricity exported to the grid by the Project ($EG_{\text{export},y}$)

This parameter was continuously measured by bi-directional electricity meters (main meter Ma1 and its backup meter Ma2, main meter Mb1 and its backup meter Mb2) installed at high voltage side of 35kV/110kV substation. When main meters is not working, the reading of backup meters will be used. By checking operation log /6/, it is confirmed that main meter Ma1 and Mb1 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 Transaction Notes (ETNs) /8/ of the project activity.

$EG_{\text{export},y}$ was sourced from Meter Reading Records (MRRs) /7/ issued by the project developer, and ETNs /8/ issued by power grid company covering monitoring period. The conservative data will be used for calculation of emission reductions.

. Quantity of electricity imported from the grid by the Project (EG_{import,y})

This parameter was continuously measured by bi-directional electricity meters (main meter Ma1 and its backup meter Ma2, main meter Mb1 and its backup meter Mb2) installed at high voltage side of 35kV/110kV substation. When main meters is not working, the reading of backup meters will be used. By checking operation log /6/, it is confirmed that main meter Ma1 and Mb1 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 Transaction Notes (ETNs) /8/ of the project activity.

EG_{export,y} was sourced from Meter Reading Records (MRRs) /7/ issued by the project developer, and ETNs /8/ issued by power grid company covering monitoring period. The conservative data will be used for calculation of emission reductions.

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 ETNs. 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 quantity of net electricity generation supplied by the project plant/unit to the grid during this monitoring period 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
main meter Ma1	51000040	0.2s	Annually	02/07/2020 22/06/2021	01/07/2021 21/06/2022
backup meter Ma2	51000042	0.2s	Annually	02/07/2020 22/06/2021	01/07/2021 21/06/2022
main meter Mb1	51000044	0.2s	Annually	02/07/2020 22/06/2021	01/07/2021 21/06/2022

backup meter Mb2	51000043	0.2s	Annually	02/07/2020 22/06/2021	01/07/2021 21/06/2022
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Main meter Ma1 and its backup meter Ma2, main meter Mb1 and its backup meter Mb2 were calibrated by Electric Energy Measurement Centre, Gansu Electric Power Corporation. Calibration records and accreditation certificates /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 2.0 dated 20/01/2021). 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 2.0 dated 20/01/2021) and relevant industry standard.

In the monitoring plan of renewed VCS PD (Version 2.0 dated 20/01/2021), 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 2.0 dated 20/01/2021) and relevant industry standard, and the calibrations of meters are verified to be valid for the whole reporting period.

Data management and control

CECIC HKC Gansu Wind Power Co., LTD. is responsible for operation and routine maintenance of power plant under the project activity. The quality assurance and quality control procedures have been addressed in the 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 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.

Emission reduction calculation

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 The combined margin CO₂ emission factor for grid connected power generation in year y ($EF_{\text{grid,CM},y}$).

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

The combined margin CO₂ emission factor for grid connected power generation in year y ($EF_{\text{grid,CM},y}$)

EF is the the combined margin CO₂ emission factor for grid connected power generation in year y of the which has been verified ex-ante in the validation stage in the renewed VCS PD (Version 2.0 dated 20/01/2021) as 0.7793 tCO₂e/MWh for the crediting period.

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:

$$EG_{\text{facility},y} = EG_{\text{export},y} - EG_{\text{import},y}$$

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

Vintage	EG _{export,y} (MWh)					EG _{import,y} (MWh)					EG _{facility,y} (MWh)	EF _{grid,CM,y} (tCO ₂ e/MWh)	BE _y (tCO ₂ e)
	Meter reading from Ma1 (MWh)	Meter reading from Mb1 (MWh)	Total meter readings (MWh)	ETNs (MWh)	Data for ER calculation (MWh)	Meter reading from Ma1 (MWh)	Meter reading from Mb1 (MWh)	Total meter readings (MWh)	ETNs (MWh)	Data for ER calculation (MWh)			
	A	B	C=A+B	D	E=Min(C,D)	F	G	H=F+G	I	J=Max(H,I)			
01/01/2021-31/01/2021	22,483.938	22,588.033	45,071.971	45,071.971	45,071.971	30.561	31.098	61.659	61.659	61.659	45,010.312	0.7793	35,076
01/02/2021-28/02/2021	21,782.032	21,849.116	43,631.148	43,631.148	43,631.148	30.638	30.473	61.111	61.111	61.111	43,570.037	0.7793	33,954
01/03/2021-31/03/2021	20,927.274	21,533.421	42,460.695	42,460.695	42,460.695	21.409	26.385	47.794	47.794	47.794	42,412.901	0.7793	33,052
01/04/2021-30/04/2021	20,562.641	20,661.534	41,224.175	41,224.175	41,224.175	28.583	29.008	57.591	57.591	57.591	41,166.584	0.7793	32,081
01/05/2021-31/05/2021	19,528.593	19,639.424	39,168.017	39,168.017	39,168.017	35.382	35.121	70.503	70.503	70.503	39,097.514	0.7793	30,468
01/06/2021-30/06/2021	18,947.394	19,025.539	37,972.933	37,972.933	37,972.933	49.538	48.663	98.201	98.201	98.201	37,874.732	0.7793	29,515
01/07/2021-31/07/2021	17,739.662	17,883.447	35,623.109	35,623.109	35,623.109	48.573	44.285	92.858	92.858	92.858	35,530.251	0.7793	27,688
01/08/2021-31/08/2021	16,100.535	16,395.270	32,495.805	32,495.805	32,495.805	43.598	41.074	84.672	84.672	84.672	32,411.133	0.7793	25,257
01/09/2021-30/09/2021	15,673.204	15,953.395	31,626.599	31,626.599	31,626.599	37.573	38.759	76.332	76.332	76.332	31,550.267	0.7793	24,587
01/10/2021-	16,083.09	16,159.57	32,242.67	32,242.671	32,242.67	30.837	30.572	61.409	61.409	61.409	32,181.262	0.7793	25,078
01/11/2021-30/11/2021	18,954.284	18,982.853	37,937.137	37,937.137	37,937.137	28.453	29.037	57.490	57.490	57.490	37,879.647	0.7793	29,519
01/12/2021-31/12/2021	21,375.305	21,739.088	43,114.393	43,114.393	43,114.393	20.098	21.583	41.681	41.681	41.681	43,072.712	0.7793	33,566

Total	230,157.9 61	232,410.6 92	462,568.6 53	462,568.65 3	462,568.6 53	405.243	406.058	811.301	811.301	811.301	461,757.35 2	/	359,841
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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)
01/01/2021-31/12/2021	461,757.352	0.7793	359,841
Total	461,757.352	/	359,841

✓ 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 HKC Gansu Changma Wind Power 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)
01/01/2021-31/12/2021	359,841
Total ERs claimed (in 365 days)	359,841

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

The emission reductions claimed are 359,841 tCO₂e in this monitoring period (i.e. 365 days). Compared with yearly expected emission reductions 336,628 tCO₂e in the renewed VCS PD, the reported emission reductions in this monitoring period are 6.90% higher than the expected, which is resulted by increased wind resources /26/. Also, the longest operation hour of wind project in Yumen City where the project located is 3600hrs /27/, greater than the operation hour (2297hrs) of the project activity in year 2021.

Furthermore, by checking registered VCS PD, it is confirmed that when the power generation is increased by 21.35%, the IRR will reach the 8% benchmark. Hence, 6.90% 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 HKC Gansu Changma Wind Power project” in China (VCS Project ID: 717) for the period 01/01/2021 to 31/12/2021.

The verification is based on the baseline and monitoring methodology ACM0002 (version 20.0), and renewed VCS PD (Version 2.0 dated 20/01/2021). The verification consisted of the following three phases: i) desk review of the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification and certification report.

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

Our verification approach was based on the requirements as defined under the applicable VCS Version 4 and relevant UNFCCC requirements. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. The verification can confirm that:

- the project is implemented and operated as per renewed VCS PD (Version 2.0 dated 20/01/2021);

- the monitoring plan in renewed VCS PD (Version 2.0 dated 20/01/2021) is as per the applied methodology;
- the monitoring complies with the monitoring plan in the renewed VCS PD (Version 2.0 dated 20/01/2021);
- 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 VCU's hereby verified and certified. Request for issuance of VCU's shall be made by the project proponent to an approved VCS Program Registry based on the requirements set out under the most recent version of the VCS Program Guidelines clause on VCS Registration.

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

In CTI's opinion the GHG emissions reductions of the "CECIC HKC Gansu Changma Wind Power project" for the period 01/01/2021 to 31/12/2021 are fairly stated in the monitoring report (version 02 dated 15/11/2022). 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 2.0 dated 20/01/2021).

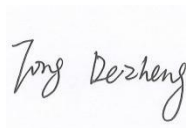
CTI can confirm that the GHG emission reductions are calculated without material misstatements. Based on the evidence and information that are considered necessary to guarantee that GHG emission reductions are appropriately calculated, CTI confirms the following statement:

Verification period: From 01/01/2021 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)

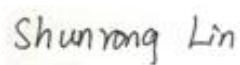
01/01/2021-31/12/2021	359,841	0	0	359,841
Total	359,841	0	0	359,841



Mr. Tong Dezheng

Team Leader

18/11/2022



Ms. Lin Shunrong

Technical Reviewer

18/11/2022

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/ Demeter Venture UK Limited: Monitoring Report for CECIC HKC Gansu Changma Wind Power project, version 01 dated 10/01/2022, version 02 dated 15/11/2022
- /2/ Demeter Venture UK Limited: Emission reduction calculation spreadsheet for CECIC HKC Gansu Changma Wind Power project, version 01 dated 10/01/2022
- /3/ CECIC HKC Gansu Wind Power Co., LTD. and State Grid Gansu Electric Power Company: Power Purchase Agreement for CECIC HKC Gansu Changma Wind Power project.
- /4/ CECIC HKC Gansu Wind Power Co., LTD.: VER monitoring manual and management procedure.
- /5/ CECIC HKC Gansu Wind Power Co., LTD.: Records of training for on-site staff.
- /6/ CECIC HKC Gansu Wind Power Co., LTD.: Operation log sheets, from 01/01/2021 to 31/12/2021.
- /7/ CECIC HKC Gansu Wind Power Co., LTD.: Monthly reading records (MRRs) of CECIC HKC Gansu Changma Wind Power project from 01/01/2021 to 31/12/2021.
- /8/ Gansu Power Grid Company: Electricity Transaction Notes from 01/01/2021 to 31/12/2021.
- /9/ Registered CDM PDD, version 3 dated 24/05/2011
- /10/ Revised CDM PDD (approved by CDM EB), Version 3.2 dated 20/08/2012.
- /11/ Registered VCS PD, Version 01 dated 20/10/2011.
- /12/ Renewed VCS PD, Version 2.0 dated 20/01/2021.
- /13/ Validation Report of renewed VCS PD (Version 01.0 dated 20/01/2021)
- /14/ CECIC HKC Gansu Wind Power 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 on changes in PDD, version 2 dated 30/08/2012
- /17/ TÜV Rheinland Japan Ltd.: the Validation Report of registered CDM PDD, Version 06 dated 31/05/2011
- /18/ UNFCCC website: CDM Monitoring Reports for CECIC HKC Gansu Changma Wind Power project of previous monitoring periods

- /19/ SGS United Kingdom Limited and CTI: CDM Verification Reports for CECIC HKC Gansu Changma Wind Power project of previous monitoring periods
- /20/ Business License of CECIC HKC Gansu Wind Power Co., LTD
- /21/ Grievance book located in project owner's office
- /22/ VCS Monitoring Report for CECIC HKC Gansu Changma Wind Power project of previous monitoring periods
- /23/ LGAI Technological Center, S.A. (Applus+ Certification): VCS Verification Report for CECIC HKC Gansu Changma Wind Power project of previous monitoring period (4th)
- /24/ China National Accreditation Service for Conformity Assessment: Accreditation certificate of Electric Energy Measurement Centre, Gansu Electric Power Corporation, valid till 28/09/2022.
- /25/ Electric Energy Measurement Centre, Gansu Electric Power Corporation: Calibration certificates for meters covering this monitoring period.
- /26/ Public information for increased wind resources: <http://news.bjx.com.cn/html/20210127/1132685.shtml>
- /27/ The longest operation hours in Yumen City: <https://wind.in-en.com/html/wind-2396232.shtml>
- /28/ China DNA: 2019 Baseline Emission Factors for Regional Power Grids in China issued on 29/12/2020
https://www.mee.gov.cn/ywgz/xdqhbh/wsqtzk/202012/t20201229_815386.shtml
- /29/ Environment Impact Assessment (EIA) Report, completed by Gansu Province Environment and Science Design Institute in October 2007 and approved by Gansu Province Environment Protection Bureau on 06/11/2007.

Methodologies, tools and other guidance

- /30/ Verified Carbon Standard: VCS Standard, version 4.3.
- /31/ Verified Carbon Standard: VCS Program Guide, version 4.2.
- /32/ Verified Carbon Standard: Registration and Issuance Process, version 4.2.
- /33/ UNFCCC EB: Approved methodology, ACM0002, version 20.0

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	Monitoring Report Template, v4.1 has been updated on 20/01/2022. PP is requested to complete MR using latest version (V4.1) template.	Latest version (V4.1) MR template has been used.	By checking the updated MR, it is confirmed that Latest version (V4.1) MR template has been used. Therefore, CAR 01 is closed.

CAR ID	Corrective Action Request	Response by Project Proponent	Verification Team Assessment
02	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 SDGSs contributions have been added in appendices of the MR, please refer APPENDIX II.	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 02 is closed.

CAR ID	Corrective Action Request	Response by Project Proponent	Verification Team Assessment
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CAR ID	Corrective Action Request	Response by Project Proponent	Verification Team Assessment
03	Please supplement project deviation of previous monitoring periods.	The project deviation of previous monitoring periods has been supplemented.	The project deviation of previous monitoring periods has been supplemented.in the MR. Therefore, CAR 03 is closed.

Table 2: Clarification Requests

CL ID	Clarification Request	Response by Project Proponent	Verification Team Assessment
NA	NA	NA	NA

Table 3: Forward Action Requests

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