



VCS VERIFICATION REPORT

CGN HAMI PHASE I 20MWP GRID- CONNECTED PV POWER PLANT PROJECT

(VCS PROJECT ID: 1248)



Document Prepared By

Shenzhen CTI International Certification Co., Ltd

Project Title	CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project
Version	02.0
Report ID	CTI/NB-2021-0612

Report Title	CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project
Client	CGN Carbon Asset Management (Beijing) Co., Ltd.
Pages	31
Date of Issue	09/12/2021
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: Lin Shunrong Technical Reviewer: Wang Guolian

Summary:

Shenzhen CTI International Certification Co., Ltd (CTI) has performed the verification of the emission reductions reported for the project activity “CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project” (VCS Project ID:1248) for the monitoring period 01/01/2017-27/12/2020 within the 1st VCS crediting period 28/12/2011 to 27/12/2021, 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 4.0 and VCS Standard version 4.1 for the VCS projects, as well as criteria given to provide for consistent project operations, monitoring and reporting. The verification was conducted by means of document review, follow-up interviews and site inspections, and the resolution of outstanding issues. The verification team identified one CL, no CAR nor FAR in this monitoring period.

In CTI's opinion, the GHG emission reductions reported for the project in the monitoring report (version 03 dated 08/12/2021) are fairly stated. The GHG emission reductions of the period from 01/01/2017-27/12/2020 within the 1st VCS crediting period were calculated correctly on the basis of approved

methodology ACM0002 “Consolidated baseline methodology for grid-connected electricity generation from renewable sources” (version 13.0.0) and the monitoring plan contained in the registered PDD (version 2 dated 25/09/2012) and GAP VCS PD (version 02 dated 22/02/2014).

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.

Hence, CTI is able to certify that the emission reductions from the “CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project” during the period amount to 101,427 tCO₂e.

CONTENTS

Contents.....	4
1 Introduction.....	6
1.1. Objective.....	6
1.2. Scope and Criteria.....	6
1.3. Level of Assurance.....	7
1.4. Summary Description of the Project.....	7
2. Verification Process.....	8
2.1. Method and Criteria.....	8
2.2. Document Review.....	8
2.3. Interviews.....	9
2.4. Site Inspections.....	10
2.5. Resolution of Findings.....	10
2.6. Eligibility for Validation Activities.....	11
3. Validation Findings.....	12
3.1. Participation under Other GHG Programs.....	12
3.2. Methodology Deviations.....	12
3.3. Project Description Deviations.....	12
3.4. Grouped Project.....	13
4. Verification Findings.....	13
4.1. Project Implementation Status.....	13
4.2. Safeguards.....	19
4.3. AFOLU-Specific Safeguards.....	20
4.4. Accuracy of GHG Emission Reduction and Removal Calculations.....	20
4.5. Quality of Evidence to Determine GHG Emission Reductions and Removals.....	24
4.6. Non-Permanence Risk Analysis.....	24
5. Verification conclusion.....	25
APPENDIX A: Abbreviations.....	27
APPENDIX B: references.....	28

APPENDIX C: Corrective Action Requests, clarification requests and Forward Action Requests.....	31
--	-----------

1 INTRODUCTION

CGN Carbon Asset Management (Beijing) Co., Ltd. has commissioned Shenzhen CTI International Certification Co., Ltd (CTI) to carry out the verification and certification of emission reductions reported for the “CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project” (the project) for the monitoring period 01/01/2017-27/12/2020. This report contains the findings from the verification and includes a verification statement for the verified carbon units.

1.1. Objective

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

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

The objective of this verification was to verify and provide a verification statement of emission reductions reported for the “CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project” for the period 01/01/2017-27/12/2020.

1.2. Scope and Criteria

The scope of the verification is:

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

The criteria of the verification are:

- VCS Program Guide (version 4.0)/31/
- VCS Standard (version 4.1)/30/ and other relevant requirements defined by Verra;
- The approved methodology ACM0002 (version 13.0.0)/34/ applied by the project.

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

1.3. Level of Assurance

The verification report expresses a conclusion with a reasonable level of assurance about whether the reported GHG emissions reduction data is free from material misstatement. CTI applied a materiality threshold of 5% with respect to omission or misstatements concerning reported quantities as per VCS standard.

1.4. Summary Description of the Project

1.4.1. Sectoral Scope and Project Type

According to the VCS Program Guide (version 4.0)/31/, the project is applicable under the following activity categories:

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

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

1.4.2. Project Background

The project is located in Hami City, Xinjiang Uygur Autonomous Region, P. R. China, with center coordinates of east longitude 93°38'36.80" (93.6436°) and north latitude 43°02'13.64" (43.0371°). The project activity was registered as a CDM project with Ref.8194 on 27/12/2012 and the 1st CDM crediting period is 27/12/2012 - 26/12/2019, which has been renewed on 18/12/2020 with the 2nd CDM crediting period 27/12/2019 - 26/12/2026. The project has been registered as VCS project with Ref. VCS 1248 under VCS Standard Version 3.4. As per the VCS standard, the project started commercial operation on 28/12/2011 on which it began generating GHG emission reductions. The amount of 21,576tCO₂e VCU's have been issued for the monitoring period from 28/12/2011 - 26/12/2012. The emission reductions for the monitoring period 27/12/2012-31/12/2016 will be submitted together with this monitoring period for VCS issuance request.

The installed capacity of the project is 20.31MWp equipped with polycrystalline silicon solar cells in type of YL235P-29b manufactured by Yingli Energy Co., Ltd. The electricity generated by the project activity is supplied to the Northwest China Power Grid (hereafter referred to as "NWCPG"), and the project is estimated to deliver 29,029tonnes CO₂e emission reduction annually.

2. VERIFICATION PROCESS

2.1. Method and Criteria

The verification was performed through means of the following three phases in accordance with the requirement of the registered CDM PDD (version 2 dated 25/09/2012) and the GAP VCS PD (version 02 dated 22/02/2014), the applied methodology, and the VCS Standard (version 4.1) and other relevant VCS requirements:

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

The following sections outline each step in more detail.

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

- The emission reduction calculations and the relevant data records;
- The calibration and maintenance records for the monitoring instruments;

The management systems to support the project operation and monitoring

2.2. Document Review

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

Function	Name	Technical competence	Task Performance*
Team Leader	Lin Shunrong	1.2, 14.1, 15.1	☒ DR ☒ SV ☒ RP ☐ TR
Technical Reviewer	Wang Guolian	1.2, 3.1, 4.1, 5.1, 5.2, 11.1, 11.2, 12.1	☒ DR ☐ SV ☐ RP ☒ TR

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

In addition to the VER/VCU monitoring report/1/, VCS PD (version 02 dated 22/02/2014) /15/, emission reduction calculation spreadsheet/2/, the following documents also were assessed as a part of the verification audit:

- The registered CDM PDD (version 2 dated 25/09/2012) for the project activity/14/, including the monitoring plan and the corresponding CDM validation report/19/;
- The previous VER/VCU monitoring report and verification report/20//21/;

- The validation reports for renewal of crediting period under CDM programme/22/
- Baseline and monitoring methodology ACM0002 (version 13.0.0) applied by the project/34/;
 - Relevant decisions, clarifications and guidance from the Verra/30/-/34/; 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 03/08/2021, CTI visited the project proponent CGN Solar Power Development Co., LTD to perform on-site assessment. The key personnel of the project were interviewed or assisted the verification team /35/. 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/35/ are summarized in the table below:

Interviewed personnel	Role	Subject
Mr. Wang Yanbin	Director of CGN Solar Power Development Co., LTD	Operation of the project activity; Implementation of the monitor plan of the project activity; Data collection and data achievement; Calibration of meters and equipment maintenance; Data collection and ER calculation; Data collection and ER calculation; Local stakeholders' consultation; Project's sustainable development contributions.
Mr. Wei Youpan	Contact person of CGN Solar Power Development Co., LTD	
Mr. Han Xu	Local villager	
Mr. Dou Xiandong	Local villager	
Mr. Zhang Kaili	Official of local Environment Protection Bureau	

Mr. Xu Xiansong	Project Manager of CGN Carbon Asset Management (Beijing) Co., Ltd.	
-----------------	--	--

2.4. Site Inspections

During the on-site assessment, CTI has applied standard auditing techniques to assess the quality of information provided. The following aspects of the project activity have been verified:

- An assessment of the implementation and operation of the registered project activity is as per the registered CDM PDD and VCS PD of the project activity;
- A review of information flows for generating, aggregating and reporting the monitoring parameters; and
- Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the registered CDM PDD;
- A cross-check between information provided in the monitoring report and data from other sources such as plant logbooks and Electricity Sales Receipts;
- A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the registered CDM PDD and the selected methodology;
- A review of calculations and assumptions made in determining the GHG data and emission reductions; and
- An identification that quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

The data presented in the monitoring report were assessed by review of the detailed project documentation and production records, as well as by interviews with personnel from the project developer CGN Solar Power Development Co., LTD and project consultant CGN Carbon Asset Management (Beijing) Co., Ltd., and observation of collection of measurements, observation of established monitoring and reporting practices and assessment of the reliability of monitoring equipment. This has enabled the verification team to assess the accuracy and completeness of reported monitoring results, to verify the correct application of the approved monitoring methodology and the determination of the emission reductions.

In addition, all parameters required by the monitoring methodology ACM0002 (version 13.0.0), 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 1 CL in this monitoring period, and no CARs was raised. The CL was satisfactorily addressed by the project proponents in the revised monitoring report and PD (refer to Appendix A for further details).

2.5.1. Forward Action Requests

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

CTI confirmed that there was no FAR identified in previous verification/21/, and no FAR was raised during this verification.

2.6. Eligibility for Validation Activities

The project has been validated by ERM Certification and Verification Services under the CDM rules and registered as CDM project on 27/12/2012 /19/. The validation for the 2nd CDM renewal crediting period 27/12/2019 - 26/12/2026 of the project activity was undertaken by China Classification Society Certification Company (CCSC) and approved on 18/12/2020 /22/

CTI was accredited in Sectoral Scope 1 on validation and verification and thus is eligible for validation and verification activities on the proposed project, the previous validation and verification activities undertaken by CTI as below:

- The VCS GAP validation and the VCS verification for the monitoring period 28/12/2011 - 26/12/2012 prior to the CDM crediting period were completed by CTI on 23/02/2014 /21/

By checking the UNFCCC website, the VCS pipeline and the previous verification report/21/, it is confirmed the verification for this monitoring period 01/01/2017-27/12/2020 is neither more than 6 years, nor consecutive more than 6 years with the previous verification for the monitoring period 28/12/2011 - 26/12/2012 undertaken by CTI, thus in line with the requirement for VVB stipulated in Section 4.1.20 of VCS standard version 4.1.

3. VALIDATION FINDINGS

The project activity is registered as CDM project activity under the UNFCCC on 27/12/2012 with the Registration Ref. No. 8194. The CDM crediting period of the project starts on 27/12/2012 with a renewable crediting period of 3*7 years. The emission reductions from 28/12/2011 - 26/12/2012 prior to the CDM crediting period were claimed as Voluntary Carbon Units (VCUs) under the Voluntary Carbon Standard (VCS 3.4).

By checking the registered CDM PDD and site visit interview with project owner, it is confirmed that the project started operation on 28/12/2011 which is the project start date according to the requirement of VCS. A deviation was identified for the crediting period of the Project. The project is registered under VCS Version 3.4 and completed validation before 19/03/2020. As per VCS requirement, it remains eligible to apply the crediting period requirements under VCS 3 which shall be a maximum of ten years and may be renewed at most twice. Therefore, the first renewable crediting period of the Project is updated from 28/12/2011 - 26/12/2012 to 28/12/2011 to 27/12/2021, which lasts for 10 years.

3.1. Participation under Other GHG Programs

The project has been registered as a CDM project on 27/12/2012 under the UNFCCC with Ref. 8194. The 1st CDM crediting period is 27/12/2012 - 26/12/2019 and the 2nd CDM crediting period is renewed as 27/12/2019 - 26/12/2026. By checking the UNFCCC website (<https://cdm.unfccc.int/Projects/DB/ERM-CVS1352801276.8/view?cp=1> and <https://cdm.unfccc.int/Projects/DB/ERM-CVS1352801276.8/view>) it is confirmed that no GHG emission reductions has been issued or requested for issuance under the CDM program during the 1st and the current 2nd CDM crediting periods.

As confirmed by the project proponent, the emission reductions during the proposed monitoring period 01/01/2017-27/12/2020 is only claimed for VCUs under the VCS Program Guide.

3.2. Methodology Deviations

The validation process/19/ has assessed all factors and issues that constitute the basis for emission reductions from the project according to the applicable CDM methodology ACM0002 (version 13.0.0) /34/. There was not any methodology deviation applied to this project. Details refer to section 4.1.

3.3. Project Description Deviations

There was a deviation identified for the crediting period of the project activity. By checking the registered CDM PDD and site visit interview with project owner, it is confirmed that the project started operation on 28/12/2011 which is the project start date according to the requirement of VCS. The project is registered under VCS Version 3.4 and completed validation before 19/03/2020. As per VCS requirement, it remains eligible to apply the crediting period requirements under VCS 3 which shall be a

maximum of ten years and may be renewed at most twice. Therefore, the first renewable crediting period of the Project is updated from 28/12/2011 - 26/12/2012 to 28/12/2011 to 27/12/2021, which lasts for 10 years. The project is also registered as a CDM project with a seven-year twice renewable project crediting period, and the project has the lifetime of 25 years, therefore it is not eligible for VCU issuance beyond 27/12/2032. CTI verifies that the deviation of crediting period is also applied for this monitoring period, which has been appropriately described and justified in the monitoring report (version 03 dated 08/12/2021), and confirms it has no impacts on the applicability, additionality or baseline of the project as per Section 3.18 of the VCS standard 4.1 and meets all appropriate rules and requirements of VCS standard.

Except the crediting period deviation, there were no other 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 proposed project activity including data monitoring, reporting and collecting systems have been implemented in accordance with the registered CDM PDD. CTI confirms that the project is fully implemented in accordance with the project description and monitoring plan contained in registered CDM PDD (version 2 dated 25/09/2012), and no other deviations for the project description. Details refer to section 4.1.

3.4. Grouped Project

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

4. VERIFICATION FINDINGS

This section summarises the findings from the verification of the emission reductions reported for the “CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project” for the monitoring period 01/01/2017-27/12/2020.

4.1. Project Implementation Status

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

The project is a solar power grid-connected plant and locates in Hami City, Xinjiang Uygur Autonomous Region, P. R. China. The centre geographical coordinates are verified by GPS system as east longitude 93°38'36.80" (93.6436°) and north latitude 43°02'13.64" (43.0371°) which is also crosschecked with the CDM validation report (Version 2.0, dated 13/11/2012)/19/and the Feasibility Report/29/of the project that the information is correct. The total installed capacity is 20.31MW equipped with polycrystalline silicon solar cells in type of YL235P-29b. The project started operation on 28/12/2011. The expected average annual net electricity generation during the whole operation lifetime is 29,846MWh with the annual attenuation factor of electricity generation as 0.99 and the plant load factor(PLF) of 16.8%. The actual implementation of the project during this verification period was

verified in terms of name plates of solar cell modules and the equipment purchase contract. The details of the equipment with respect to their installation and capacity have been verified to be consistent with description indicated in the registered CDM PDD.

The electricity generated by the project activity is supplied to the NWCPG, which can be confirmed by the Power purchase agreement (PPA) signed between CGN Solar Power Development Co., LTD and Xinjiang Electric Power Company/3/. All the monitoring system in operation period is consistent with the description in the registered CDM PDD. The control system at the power plant is automated and assures continuous operation, including monitoring on malfunction of equipment. Via the on-site interview/35/ and by checking the daily operation and maintenance records/7/, CTI can confirm that no serious malfunction happened and the plant was under a normal operation as expected in this monitoring period.

On-site training for the related procedures including monitoring, recording and reporting was verified to be in place/6/ and their implementation was confirmed by interview with the key operators/35/ and observing the operation.

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

4.1.2. Compliance of monitoring plan with monitoring methodology

CTI is able to confirm that the monitoring plan in the registered CDM PDD (version 2 dated 25/09/2012) is in accordance with the approved methodology applied by the project activity, i.e. ACM0002 (version 13.0.0).

4.1.3. Compliance of monitoring with the monitoring plan

The monitoring has been carried out in accordance with the monitoring plan contained in the registered CDM PDD (version 2 dated 25/09/2012). CTI confirms that all parameters stated in the monitoring plan are monitored and reported appropriately. All parameters required to be monitored by the monitoring plan as per the monitoring methodology ACM0002 (version 13.0.0) 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 each parameter in further verified in the following sections.

Parameters fixed ex ante

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

verified and confirms that the emission factor used in the monitoring report is in compliance with the registered CDM PDD.

Parameters monitored

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

- A review of information flows for generating, aggregating and reporting the monitoring parameters;
- Determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the registered CDM PDD;
- A cross-check between information provided in the monitoring report and data from other sources such as plant logbooks and Electricity Sales Receipts;

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

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

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

(2) $EG_{\text{export},y}$, Quantity of electricity supplied to the grid by the Project in year y

(3) $EG_{\text{import},y}$, Quantity of electricity purchased from the grid by the Project in year y

Based on the on-site visit and checking the connection diagram, PPA, meters and the monitoring plan in the registered CDM PDD, it is confirmed that two bidirectional meters M1(main meter) and M2(backup meter) are installed at the at the connection point of the on-site substation between the project and the Grid to monitor the electricity supplied by the project to the grid ($EG_{\text{export},y}$) and electricity purchased from the grid ($EG_{\text{import},y}$). Therefore, $EG_{\text{facility},y}$ is calculated as: $EG_{\text{facility},y} = EG_{\text{export},y} - EG_{\text{import},y}$.

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

The meter readings are continuously measured and recorded by trained staff of the project as agreed with the grid company at 24:00 on the 27th of each month/8/. The electricity sales receipts /9/ issued by the local Grid Company have been used for cross-check of electricity exports and imports.

Through a cross check, the conservative values from electricity exports and imports were applied to calculate the net electricity supplied to the grid by the project. The data reported in the monitoring report and ERs calculation spreadsheet has been verified by the verification team.

Supporting references and data required to determine the net electricity supplied to the grid by the project is found to be complete and transparent.

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

Monitoring equipment and calibration

The documents review was carried out. Particular attention was paid to the frequency of measurements, the quality of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the registered CDM PDD and the methodology ACM0002 (version 13.0.0) and corresponding tool(s), and the quality assurance and quality control procedures.

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

Item	M1 (main meter)	M2 (backup meter)
Type	CTSD341	CTSD341
SN	1111091971000004	1111091971000003
Accuracy Class	0.2s	0.2s
Calibration Frequency	Annually	Annually
Calibration Date	13/10/2016 10/10/2017 28/09/2018 23/09/2019 19/09/2020	13/10/2016 10/10/2017 28/09/2018 23/09/2019 19/09/2020
Validity	12/10/2017 09/10/2018 27/09/2019 22/09/2020 18/09/2021	12/10/2017 09/10/2018 27/09/2019 22/09/2020 18/09/2021
Calibration Entity	Xinjiang Electric Power Scientific Research Institute	

Calibration records and accreditation certificates/16//17/have been verified by the verification team. The actual accuracy of M1 and M2 is verified to be 0.2s which is more accurate than the specification of no lower than 0.5 described in the registered PDD, and in compliance with the Technical administrative code of electric energy metering (DL/T448-2016)/18/. The calibration frequency of meters is annual, which is consistent with the registered CDM PDD. Based on the site

visit and by checking the calibration reports, CTI confirms the calibration frequency of these meters is annual, which is in line with the registered CDM. CTI concludes that:

- Both meters have been installed in accordance with the monitoring plan;
- The meters' accuracy is in line with the requirement of the monitoring plan;
- The calibration frequency of the meters is annual, which is in line with the monitoring plan.

And the calibrations are verified to be valid for the whole reporting period.

CL 01 was raised for requesting calibration information of both monitoring meters covering the reporting monitoring period, which has been successfully closed, Refer to Appendix C for details.

Data management and control

CGN Solar Power Development Co., LTD is responsible for operation and routine maintenance of power plant under the project activity. The quality assurance and quality control procedures have been addressed in the CDM project management and monitoring manual/5/, including the organization structure with the responsibilities, personnel competencies, monitoring procedures and monitoring management. By interview with the staff/35/ and check records /7//8/ during on-site visit, it can be confirmed that the monitoring management system is implemented following the project management and monitoring manual.

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

As the above and document review, verification team considers that the project activity operated properly in the way complying with the implementation plan and monitoring plan stipulated in the revised CDM PDD (version 2 dated 25/09/2012) and the monitoring was performed in a transparent and comprehensive manner during this monitoring period.

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

- No evidence showing that the project has participated or been rejected under any other GHG programs since validation or previous verification;
- There is no observation that the project has received or sought any other form of environmental credit, or has become eligible to do so since validation or previous verification;
- The project is completely voluntary CDM project, not included in an emissions trading program or any other mechanism that includes GHG allowance trading.
- In respect of the China emissions trading scheme initiated in 2021, it is confirmed by the verification team that the project is not included within China's emissions trading scheme with the following clarification:

- (1) The China Carbon Emission Trade Exchange (CCETE) was commenced in July 2021, established based on the “*Interim Measures for the Management of Carbon Emission Rights Trading*” (Decree no. 19, the Ministry of Ecology and Environment of China, 31/12/2020) /25/. By reviewing the *Measures*, the verification team confirms CCETE is the voluntary market to allow and encourage the enterprises with intensive carbon emissions to trade the remaining carbon emission allowances created through technical innovation in order to completely achieve carbon emission obligations. Moreover, according to the *Measures*, these enterprises can purchase CCERs (Chinese Certified Emission Reductions) issued under the China Emission Trading System as offsets for the allowances, but which shall not exceed 5% of their allowances. Therefore, except trading the carbon emission allowances and a certain amount of CCERs, no other types of projects or GHG credits under an emissions trading system i.e. CDM, VCS and GS and or as other forms of environmental credit such as renewable energy certificates are permitted for involving in CCETE. Also as a voluntary mechanism, there is no mandatory requirement for the carbon emission reductions generated from the domestic renewable resources to be traded in the system. In addition, via checking the licence/28/ of the project proponent CGN Solar Power Development Co., LTD and interview through the on-site inspection, it is confirmed the business scope of the project proponent is to develop and implement solar power, it is not belong to the intensive carbon emission enterprises with carbon emission allowances to be involved in CCETE.
- (2) China Emission Trading System is also an voluntary mechanism initiated in 2012. It is confirmed by the verification team via checking the “*Interim Measures for the Administration of Voluntary Greenhouse Gas Emission Reduction Trading*” (Climate Change [2012] No. 1668, National Development and Reform Commission, 13/06/2012) /26/, firstly the projects shall be be registered under China Emission Trading System, and then can request for CCERs issuance. However, this trading mechanism has been suspended since 2017 as per the “*Announcement of the National Development and Reform Commission*” (Code 2 in 2017, National Development and Reform Commission, 03/14/2017)/27/. As confirmed by the verification team through checking the platform of China Emission Trading System, the project activity VCS 1248 is not a registered CCER project. Thus, the project cannot be included in the China’s emissions trading scheme i.e. CCETE.

By checking the UNFCCC website, it is confirmed that no emission reductions were issued as CERs or under CERs issuance request for the first and second CDM crediting periods. Therefore, it is concluded no double counting issuance has occurred for this verified monitoring period 01/01/2017-27/12/2020 under both VCS and CDM programmes. Via the on-site interview, the proponent confirmed the emission reductions for this verified period is being only requested for VCU’s issuance.

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

- Reduce greenhouse gas emissions in China, compared to a business-as-usual scenario, which contributes to the China's commitment to peak carbon dioxide emissions before 2030;
- Reduce pollutants emissions resulting from fossil fuel combustion;
- Create local employment opportunity during the construction and operation periods; and
- Contribute to local economic growth, tax revenues and poverty eradication, and promote tourism development.

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 solar power is green power and the impacts caused by solar power on the surrounding ecosystem and residents from noise, electromagnetic pollution, wastewater, and solid waste etc. is very little, there would be no net harm caused due to the project activity. Also, the EIA of the project are approved by the government.

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

4.2.2. Local Stakeholder Consultation

As per the registered CDM PDD, the local stakeholder's consultation was done in December 2011 through distributing questionnaires, which was designed to be easily filled in. 30 copies of questionnaire were distributed, and 100% recovered were received. The opinions expressed by the stakeholders were recorded and are available on request.

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

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

For this monitoring period, the project proponent has placed the complaint book in local village committee by the project proponent to allow villagers to record their comments timely. The contact person quarterly checked the complaint book. The phone number of contact person and information of the project are also published on the bulletin board of village committee to facilitate the direct communication from local villager. Furthermore, the contact person had the consultation meetings yearly with local villagers in March of 2017, 2018, 2019 and 2020 during the monitoring period. All the comments received by the contact person through the above approaches were timely collected and reported to the plant director. Based on the site inspection, i.e. by checking the complaint book/10/, yearly meeting memos/13/ and interviewing with the local villagers, the contact person and plant director/35/, the verification team confirmed that on-going communication mechanism was well set up

and carried out at periodic intervals by the project proponent during this monitoring period, and there are no negative comments received for the project.

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

4.3. AFOLU-Specific Safeguards

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

4.4. Accuracy of GHG Emission Reduction and Removal Calculations

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

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

$$ER_y = BE_y - PE_y$$

Baseline emissions

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

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

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

$EF_{\text{grid},\text{CM},y}$ is the grid emission factor of the which has been verified ex-ante in the validation stage in the registered CDM PDD as 0.8964tCO₂e/MWh.

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

As mentioned in Section 4.1.3 above, $EG_{\text{facility},y}$ is determined as follows:

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

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

Table 1 Electricity supplied to and imported from the grid by the project measured by Main Meter M1

Period	EG _{export,y} (MWh)			EG _{import,y} (MWh)		
	Measured by M1	Sales Receipts	Conservative values	Measured by M1	Sales Receipts	Conservative values
	A	B	C=MIN(A, B)	D	E	F=MAX(D, E)
01/01/2017*-27/01/2017	1,625.07	1,625.07	1,625.07	13.51	13.51	13.51
28/01/2017-27/02/2017	2,035.74	2,035.74	2,035.74	23.71	23.71	23.71
28/02/2017-27/03/2017	2,001.05	2,001.05	2,001.05	20.99	20.99	20.99
28/03/2017-27/04/2017	2,601.60	2,601.60	2,601.60	28.15	28.15	28.15
28/04/2017-27/05/2017	2,244.61	2,244.61	2,244.61	25.09	25.09	25.09
28/05/2017-27/06/2017	2,549.34	2,549.34	2,549.34	28.94	28.94	28.94
28/06/2017-27/07/2017	2,186.04	2,186.04	2,186.04	25.06	25.06	25.06
28/07/2017-27/08/2017	2,189.83	2,189.83	2,189.83	23.62	23.62	23.62
28/08/2017-27/09/2017	3,099.95	3,099.95	3,099.95	34.11	34.11	34.11
28/09/2017-27/10/2017	3,199.76	3,199.76	3,199.76	34.90	34.90	34.90
28/10/2017-27/11/2017	2,960.63	2,960.63	2,960.63	33.01	33.01	33.01
28/11/2017-27/12/2017	2,415.51	2,415.51	2,415.51	26.68	26.68	26.68
28/12/2017-31/12/2017*	289.39	289.39	289.39	4.02	4.02	4.02
Subtotal 2017			29,398.52			321.79
01/01/2018*-27/01/2018	1,694.37	1,694.37	1,694.37	22.21	22.21	22.21
28/01/2018-27/02/2018	2,257.79	2,257.79	2,257.79	27.39	27.39	27.39
28/02/2018-27/03/2018	2,171.08	2,171.08	2,171.08	28.13	28.13	28.13
28/03/2018-27/04/2018	2,329.76	2,329.76	2,329.76	30.30	30.30	30.30
28/04/2018-27/05/2018	2,037.67	2,037.67	2,037.67	27.77	27.77	27.77
28/05/2018-27/06/2018	2,560.21	2,560.21	2,560.21	32.83	32.83	32.83
28/06/2018-27/07/2018	2,141.78	2,141.78	2,141.78	29.46	29.46	29.46
28/07/2018-27/08/2018	2,163.45	2,163.45	2,163.45	26.54	26.54	26.54
28/08/2018-27/09/2018	2,895.84	2,895.84	2,895.84	38.98	38.98	38.98
28/09/2018-27/10/2018	3,062.63	3,062.63	3,062.63	39.70	39.70	39.70
28/10/2018-27/11/2018	2,954.58	2,954.58	2,954.58	38.70	38.70	38.70
28/11/2018-27/12/2018	2,162.86	2,162.86	2,162.86	29.18	29.18	29.18
28/12/2018-31/12/2018*	253.58	253.58	253.58	3.02	3.02	3.02
Subtotal 2018			28,685.60			374.21
01/01/2019*-27/01/2019	1,573.57	1,573.57	1,573.57	18.45	18.45	18.45
28/01/2019-27/02/2019	2,279.17	2,279.17	2,279.17	27.00	27.00	27.00
28/02/2019-27/03/2019	2,108.44	2,108.44	2,108.44	25.63	25.63	25.63
28/03/2019-27/04/2019	2,294.50	2,294.50	2,294.50	27.66	27.66	27.66
28/04/2019-27/05/2019	2,234.88	2,234.88	2,234.88	25.61	25.61	25.61
28/05/2019-27/06/2019	2,485.80	2,485.80	2,485.80	29.17	29.17	29.17
28/06/2019-27/07/2019	2,089.29	2,089.29	2,089.29	24.12	24.12	24.12

Period	EG _{export,y} (MWh)			EG _{import,y} (MWh)		
	Measured by M1	Sales Receipts	Conservative values	Measured by M1	Sales Receipts	Conservative values
	A	B	C=MIN(A, B)	D	E	F=MAX(D, E)
28/07/2019-27/08/2019	2,140.61	2,140.61	2,140.61	25.25	25.25	25.25
28/08/2019-27/09/2019	2,983.27	2,983.27	2,983.27	35.17	35.17	35.17
28/09/2019-27/10/2019	3,002.24	3,002.24	3,002.24	35.27	35.27	35.27
28/10/2019-27/11/2019	2,986.43	2,986.43	2,986.43	35.03	35.03	35.03
28/11/2019-27/12/2019	2,188.62	2,188.62	2,188.62	26.12	26.12	26.12
28/12/2019-31/12/2019*	263.25	263.25	263.25	3.12	3.12	3.12
Subtotal 2019			28,630.07			337.60
01/01/2020*-27/01/2020	1,606.43	1,606.43	1,606.43	23.16	23.16	23.16
28/01/2020-27/02/2020	2,246.59	2,246.59	2,246.59	33.52	33.52	33.52
28/02/2020-27/03/2020	2,089.85	2,089.85	2,089.85	32.63	32.63	32.63
28/03/2020-27/04/2020	2,357.40	2,357.40	2,357.40	34.53	34.53	34.53
28/04/2020-27/05/2020	2,031.62	2,031.62	2,031.62	33.74	33.74	33.74
28/05/2020-27/06/2020	2,416.91	2,416.91	2,416.91	38.08	38.08	38.08
28/06/2020-27/07/2020	2,087.12	2,087.12	2,087.12	31.63	31.63	31.63
28/07/2020-27/08/2020	2,047.43	2,047.43	2,047.43	30.88	30.88	30.88
28/08/2020-27/09/2020	2,876.06	2,876.06	2,876.06	42.91	42.91	42.91
28/09/2020-27/10/2020	3,009.04	3,009.04	3,009.04	44.52	44.52	44.52
28/10/2020-27/11/2020	2,878.98	2,878.98	2,878.98	43.06	43.06	43.06
28/11/2020-27/12/2020	2,244.46	2,244.46	2,244.46	33.09	33.09	33.09
Subtotal 2020			27,891.89			421.75
Total			114,824.56			1,460.30

*Note: During this monitoring period, the cut-off time of EG_{export,y} and EG_{import,y} is at 24:00 on the 27th day of each month. Data in the monthly reading records were used to report, and crosschecked by Electricity Sales Receipts. Data of EG_{export,y} and EG_{import,y} at 0:00 of 01/01/2017, 0:00 of 01/01/2018 (namely 24:00 of 31/12/2017), 0:00 of 01/01/2019 (namely 24:00 of 31/12/2018) and 0:00 of 01/01/2020 (namely 24:00 of 31/12/2019) are sourced from daily reading records and confirmed by the grid company. The verification team accepted this approach for ERs calculation and cross check since it is conservative and reasonable.

Hence, the conservative quantity of net electricity supplied by the project to the grid and the corresponding baseline emission during the monitoring period are calculated in Table 2.

Table 2 Baseline emission calculation

Period	EG _{export,y} (MWh)	EG _{import,y} (MWh)	EG _{facility,y} (MWh)	EF _{grid,CM,y} (tCO _{2e} /MWh)	BE _y (tCO _{2e})
	G	H	I=G - H	J	K= J*I
01/01/2017-31/12/2017	29,398.52	321.79	29,076.73	0.8964	26,064

Period	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)
	G	H	I=G - H	J	K= J*I
01/01/2018-31/12/2018	28,685.60	374.21	28,311.39		25,378
01/01/2019-31/12/2019	28,630.07	337.60	28,292.47		25,361
01/01/2020-27/12/2020	27,891.89	421.75	27,470.14		24,624
Total	114,606.08	1,455.35	113,150.73		101,427

Project emissions

As statement in ACM0002 (version 13.0.0)/34/, for the solar power activities, the project emissions from the project are not considered. Hence, PE_y during the monitoring period from 01/01/2017-27/12/2020 is considered as zero.

Leakages

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

Emission reductions

The emission reductions for this monitoring period were calculated as:

Monitoring period	GHG emission reductions or removals (tCO ₂ e)
01/01/2017-31/12/2017	26,064
01/01/2018-31/12/2018	25,378
01/01/2019-31/12/2019	25,361
01/01/2020-27/12/2020	24,624
Total ERs claimed (in 1,457 days)	101,427

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

The emission reductions claimed are 101,427tCO₂e in this monitoring period (i.e. 1,457 days). Compared with yearly expected emission reductions 29,029tCO₂e (365 days) in the registered CDM PDD (corresponding to 115,877tCO₂e for this monitoring period), the reported emission reductions in this monitoring period are 14.2% lower than the expected. Based on the on-site interview with the plant staffs/35/ and checking the statistics of grid-connected solar power plants operation released by the National Energy Administration/24/, the curtailment of solar power generation by the grid in Xinjiang Uygur Autonomous Region was occurred from 2016 to 2020 caused by the development of local grid capacity lagged behind, the average curtailment was 50% in 2016, 22% in 2017, 16% in 2018, and

gradually decreased to 7.4% in 2019 and 4.2% in 2020. Besides considering the natural fluctuate of the solar power resource and actual generator operation conditions, CTI is able to confirm that the actual power supply and also emission reductions reported in this monitoring period are reasonable and appropriate. CTI verified the input data for calculating emission reductions and the calculating process, and confirmed the result were complete and transparent.

4.5. Quality of Evidence to Determine GHG Emission Reductions and Removals

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

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

4.6. Non-Permanence Risk Analysis

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

5. VERIFICATION CONCLUSION

Shenzhen CTI International Certification Co., Ltd (CTI) has performed the verification of the emission reductions that have been reported for the project activity “CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project” in China (VCS Project ID: 1248) for the period 01/01/2017-27/12/2020.

The verification is based on the baseline and monitoring methodology ACM0002 (version 13.0.0), registered CDM PDD (version 2 dated 25/09/2012) and the VCS PD (version 02 dated 22/02/2014) and the monitoring report (version 03 dated 08/12/2021). The verification consisted of the following three phases: i) desk review of the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification and certification report.

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

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

- the project is implemented and operated as per the registered CDM PDD and VCS PD;
- the monitoring plan in registered CDM PDD is as per the applied methodology;
- the monitoring complies with the monitoring plan in the registered CDM PDD;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS Version 4 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.

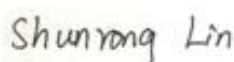
In CTI's opinion the GHG emissions reductions of the "CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project" for the period 01/01/2017-27/12/2020 are fairly stated in the monitoring report (version 03 dated 08/12/2021). The GHG emission reductions were calculated correctly on the basis of the approved methodology ACM0002 (version 13.0.0) and the monitoring plan contained in the registered CDM PDD (version 2 dated 25/09/2012) and the VCS PD (version 02 dated 22/02/2014).

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

Reporting period: 01/01/2017-27/12/2020

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)
01/01/2017-31/12/2017	26,064	0	0	26,064
01/01/2018-31/12/2018	25,378	0	0	25,378
01/01/2019-31/12/2019	25,361			25,361
01/01/2020-27/12/2020	24,624	0	0	24,624
Total	101,427	0	0	101,427



Ms. Lin Shunrong

Technical Leader

09/12/2021



Ms. Wang Guolian

Team Reviewer

09/12/2021

APPENDIX A: ABBREVIATIONS

CAR	Corrective Action Request
CCER	China Emission Trading System
CER	Certified Emission Reduction(s)
CL	Clarification request
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent
CTI	Shenzhen CTI International Certification Co., Ltd
DOE	Designated Operational Entity
EF	Emission Factor
ER	Emission Reduction
EU ETS	EU Emissions Trading Scheme
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
IREC	International Renewable Energy Certificates
MP	Monitoring Period
MR	Monitoring Report
NWCPG	Northwest China Power Grid
PD	Project Description
PP	Project Proponent
SN	Serial Number
VCS	Verified Carbon Standard
VCU	Verified Carbon Unit

APPENDIX B: REFERENCES

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

/1/	CGN Carbon Asset Management (Beijing) Co., Ltd.: VER/VCU Monitoring Report for CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project, version 01 dated 08/06/2021, version 02 dated 03/08/2021, and version 03 dated 08/12/2021
/2/	CGN Carbon Asset Management (Beijing) Co., Ltd.: Emission reduction calculation spreadsheet for CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project, version 1 dated 08/06/2021
/3/	CGN Solar Power Development Co., LTD and Xinjiang Electric Power Company.: Power Purchase Agreement for CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project
/4/	CGN Solar Power Development Co., LTD : Diagram of power connection system
/5/	CGN Solar Power Development Co., LTD: VER monitoring manual and management procedure.
/6/	CGN Solar Power Development Co., LTD: Records of training for on-site staff.
/7/	CGN Solar Power Development Co., LTD: Daily operation and maintenance records, from 01/01/2017-27/12/2020
/8/	CGN Solar Power Development Co., LTD: Daily and Monthly reading records of CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project from 01/01/2017-27/12/2020
/9/	Xinjiang Electric Power Company.: Monthly electricity sales receipts from 01/01/2017-27/12/2020
/10/	Xinjiang Electric Power Company.: Confirmation on readings of electricity supply and imports at 0:00 of 01/01/2017, 01/01/2018, 01/01/2019 and 01/01/2020
/11/	Local Village Complaint Book
/12/	Contact information of PP posted on the bulletin board of village committee
/13/	Yearly Meeting Memos of Local Stakeholder Consultation
/14/	CGN Carbon Asset Management (Beijing) Co., Ltd.: the registered CDM PDD, version 2 dated 25/09/2012
/15/	CGN Carbon Asset Management (Beijing) Co., Ltd.: GAP VCS PD version 02 dated 22/02/2014

/16/	Xinjiang Uygur Autonomous Region Quality and Technology Supervision: Accreditation certificate of Metrological Authorization for Xinjiang Electric Power Scientific Research Institute, issued on 10/04/2013, valid up to 09/04/2018; and issued on 10/04/2018, valid up to 09/04/2023
/17/	Accreditation certificate of Xinjiang Electric Power Scientific Research Institute: Calibration certificates for main meter and backup meter covering this monitoring period
/18/	State Economic and Trade Commission: Technical administrative code of electric energy metering (DL/T 448-2016)
/19/	ERM Certification and Verification Services: Validation Report, version 2.0, dated 13/11/2012
/20/	CGN Carbon Asset Management (Beijing) Co., Ltd.: VER/VCU Monitoring Report for CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project of previous monitoring period 28/12/2011 - 26/12/2012, version 01 dated 17/02/2014
/21/	Shenzhen CTI International Certification Co., Ltd: VCS GAP Validation and VCS Verification Report for CGN Hami Phase I 20MWp Grid-connected PV Power Plant Project of previous monitoring period 28/12/2011 - 26/12/2012, version 01 dated 23/02/2014
/22/	China Classification Society Certification Company (CCSC): Validation report form for renewal of crediting period for CDM project activities, version 01, dated 18/09/2020
/23/	Yingli Energy Co., Ltd: Nameplate of the equipment
/24/	National Energy Administration: Statistics of grid-connected solar power plants operation from 2016-2020
/25/	Ministry of Ecology and Environment of China: Interim Measures for the Management of Carbon Emission Rights Trading”, Decree no. 19, dated 31/12/2020)
/26/	National Development and Reform Commission: Interim Measures for the Administration of Voluntary Greenhouse Gas Emission Reduction Trading, Climate Change [2012] No. 1668, dated 13/06/2012
/27/	National Development and Reform Commission: Announcement of the National Development and Reform Commission, Code 2 in 2017, dated 03/14/2017
/28/	CGN Solar Power Development Co., LTD: Business license
/29/	Xinjiang Electrical Design Institute: Feasibility Study Report, 06/2011

5.1.2. Methodologies, tools and other guidance

/30/	Verified Carbon Standard: VCS Standard, version 4.1
/31/	Verified Carbon Standard: VCS Program Guide, version 4.0

/32/	Verified Carbon Standard: VCS Sectoral Scopes http://v-c-s.org/node/448
/33/	Verified Carbon Standard: Registration and Issuance Process, version 4.0
/34/	UNFCCC EB: Approved methodology, ACM0002, version 13.0.0

5.1.3. Persons interviewed

/35/	Ms. Wang Yanbin, Director, CGN Solar Power Development Co., LTD Mr. Wei Youpan, Contact person, CGN Solar Power Development Co., LTD Mr. Han Xu, Local villager Mr. Dou Xiandong, Local villager Mr. Zhang Kaili, Official of Local Environment Protection Bureau Ms. Xu Xiansong, Senior Project Manager, CGN Carbon Asset Management (Beijing) Co., Ltd.
------	--

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

5.1.4. Table 1: Corrective Action Requests

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

5.1.5. Table 2: Clarification Requests

CL ID	Clarification Request	Response by Project Proponent	Verification Team Assessment
CL 01	The calibration information of all monitoring meters is missing in the MR, thus it is requested to clarify.	The information of all electricity meters on the calibration of monitoring instruments had been updated in the MR.	OK. It has been revised and verified by CTI. Therefore, CL 01 is closed.

5.1.6. Table 3: Forward Action Requests

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