

	Verification report for GS4GG project activities (Gold Standard for the Global Goals)
VERIFICATION AND CERTIFICATION REPORT	
Title of the project activity	Ulan Phase II 10MWp Solar PV Project
Reference number of the project activity	GS 2679
Version number of the verification and certification report	01
Completion date of the verification and certification report	12/08/2022
Monitoring period number and duration of this monitoring period	MP number: 3rd MP duration: 01/01/2017 to 19/12/2020 (both days included)
Version number of monitoring report to which this report applies	02
Crediting period of the project activity corresponding to this monitoring period	1 st crediting period: 20/12/2013 to 19/12/2020 (both days included)
Project participant(s)	Ulan Jinfeng New Energy Photovoltaic Power Generation Co., Ltd. (the project owner) Climate Bridge (Shanghai) Ltd.
Host Party	P.R.China
Activity Requirements applied	☐ Community Services Activities ☒ Renewable Energy Activities ☐ Land Use and Forestry Activities/Risks & Capacities ☐ N/A
Methodology (ies) applied and version number	AMS I.D. "Grid connected renewable electricity generation" (Version 17.0)
Product Requirements applied	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A
SDG Contributions targeted (as per approved PDD)	Goal 8: Decent Work and Economic Growth Goal 7: Affordable and Clean Energy Goal 13: Climate Reductions

Estimated amount of annual average certified SDG impact (as per approved PDD)	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all (SDG 8)	6 long-term jobs will be created for local people with 41,370 CNY average yearly salary and trainings will be provided to employees. The Project organise training for the staff on the technology and the monitoring of the plant operation, and the emergency and safety procedures.
	Ensure access to affordable, reliable, sustainable and modern energy (SDG 7)	16,103.7MWh clean power will be generated annually, ensuring the access to electricity for local household.
	Climate Reductions (SDG 13)	13,798 tCO ₂ e emission reductions per year
Total amount of certified SDG impact (as per approved methodology) achieved in this monitoring period	Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all (SDG 8)	6 long-term jobs have been created for local people with 132,765 CNY average yearly salary and 4 times trainings have been provided to employees.
	Ensure access to affordable, reliable, sustainable and modern energy for all (SDG 7)	18,575.823 MWh clean power have been generated, ensuring the access to electricity for local household.
	Climate Reductions (SDG 13)	15,917 tCO ₂ e emission reductions.
Name of VVB	Shenzhen CTI International Certification Co., Ltd (CTI)	
Name, position and signature of the approver of the verification and certification report	Li Ziqi  Technical Reviewer/Approver	

SECTION A. Executive summary

The project activity - Ulan Phase II 10MWp Solar PV Project uses renewable solar energy to generate electricity displacing fossil fuel dominated electricity generation in power grid and thus resulting in greenhouse gases emission reductions. The installed capacity is 10.36MWp which consists of 41,440 pieces of the polycrystalline silicon solar cell modules with unit capacity of 250Wp. The annually 16,103.7 MWh power supplied to the Northwest China Power Grid (NWPG), which is mainly dominated by fossil fuel power output. By displacing part of the power generated by thermal power plants. The operation of the project activity helps to reduce greenhouse gas (GHG) emissions by an estimated annual average of 13,798 tCO₂e per year during the first crediting period. The emission reductions for the current 3rd monitoring period from 01/01/2017 to 19/12/2020 is 15,917 tCO₂e.

Scope of Verification

This verification is an independent and objective review and ex-post determination of the monitored reductions in GHG emissions by the VVB. The verification addresses the implementation and operation of the GS PA and tests the data and assertions set out in the monitoring report based on the following:

- (i) The registered GS PDD /3/,
- (ii) The registered GS Passport /4/,
- (iii) The approved methodology mentioned in the PDD, AMS I.D. "Grid connected renewable electricity generation" (Version 17.0) /18/,
- (iv) The Gold Standard for the Global Goals Principles and Requirements /20/,
- (v) The Gold Standard for the Global Goals Safeguarding Principles & Requirements /21/,
- (vi) The Gold Standard for the Global Goals Stakeholder Consultation and Engagement Requirements /22/,
- (vii) Validation and Verification Body requirements, Product requirements and references relevant to the project activity's reported emission reductions.

The verification has considered both quantitative and qualitative aspects on stated/reported emission reductions. The monitoring report (all versions) and corresponding supporting documentation was assessed in accordance with the rules defined by GS4GG, as appropriate to the PA. The verification is not meant to provide any consulting or recommendations to the PP/others. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the monitoring activities.

Verification process

The verification has been performed as described in the Gold Standard for the Global Goals Principles and Requirements /20/ as below process,

- a. Desk review of the GS MR (version 01 dated 05/06/2022) /1/ and the relevant documents
- b. On-site assessment (19/07/2022)
- c. Issuance of draft verification report & verification protocol
- d. Desk review of the revised MR and related documents
- e. Resolution of the raised CAR
- f. Issuance of the final verification report
- g. Independent technical review of the draft verification report and final/revised documentation (e.g., Monitoring Report, corresponding ER sheet and evidences)
- h. Reporting and closure of TR comments/findings and final approval for the decision made
- i. Issuance of final verification report to contracted PP (or authorized representatives) and submission of request for issuance, as appropriate.

Conclusion

CTI has performed the verification of the GS PA "Ulan Phase II 10MWp Solar PV Project" having GS Ref. Number GS 2679 for the 3rd monitoring period from 01/01/2017 to 19/12/2020. The verified emission reductions amount to 15,917 tCO₂e in the aforesaid monitoring period.

The technical parameters of the solar cell modules are consistent with the PDD /3/, and not changed since last periodical verification /6/.

In CTI's opinion, the GHG emission reductions reported for the project in the GS4GG 3rd monitoring report are fairly stated. CTI confirmed that each SDG Impacts were calculated correctly on the basis of the approved monitoring methodologies AMS I.D. ver. 17.0 /18/ and the monitoring plan contained in the PDD /3/.

CTI confirms that each SDG Impacts are calculated without material misstatements. Based on the evidence and information that are considered necessary to guarantee that each SDG Impacts are appropriately calculated, CTI is able to certify that each SDG Impacts from the project "Ulan Phase II 10MWp Solar PV Project" during the indicated monitoring period. Therefore, this is being submitted for request for issuance, as per GS procedures as applicable.

SECTION B. Verification team, technical reviewer and approver**B.1. Verification team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Validation findings
1.	Team Leader & Verifier	IR	Du	Wenjun	CTI	√	√	√	√

B.2. Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of VVB or outsourced entity)
1.	Technical reviewer/ Approver	IR	Li	Ziqi	CTI

SECTION C. Application of materiality

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	Human error in the quantification of emissions	Low	Human error is likely to occur if personnel are unfamiliar with, or not well trained regarding, emissions processes or data recording	Depending on the monitoring period being verified, conduct increased verifying during the months when there is a greater likelihood of errors and issues with data quality control due to project participants' leave schedules
2.	Undue reliance on a poorly designed information system, which may have few effective quality controls	Low	Use of spreadsheets without adequate controls related to data changes/updates, version tracking, traceability, security	Depending on how data is generated, processed, and reported, place greater emphasis on verifying data captured and processed manually and/or in spreadsheets versus those that are generated from an automated system
3.	Omissions and misstatements in data transfer from hand written notes into digital Excel ER spreadsheet	Medium	Ineffective quality control of data transfer due to unclear QA/QC procedure	Check QM procedure/manual. PP may demonstrate how to transfer data and how this is crosschecked. Conduct interview with related personnel whether procedure is actually conducted but not adequately described.

On the basis of the risk analysis the verification has been planned. A detailed audit/verification plan has been prepared and submitted to the project participant(s) in due time before the site visit.

C.2. Consideration of materiality in conducting the verification

The errors identified in the project are below the threshold limit of materiality and hence not material. The GHG emission reductions are calculated without material misstatements.

SECTION D. Means of verification

D.1. Desk review

Desk review of all documents provided by PP and publicly available documents relevant for the verification including monitoring plan, monitoring report, monitoring methodology, project design document, applicable tools in particular attention to the frequency of measurements, QA/QC procedures and other relevant documents was conducted by CTI.

The main documents are listed below:

- (i) the GS4GG Monitoring Report (version 01 dated 05/06/2022) /1/,
- (ii) the emission reduction calculation spreadsheet related to this monitoring period /2/,
- (iii) the registered GS PDD including the monitoring plan /3/,
- (iv) the registered GS Passport /4/,
- (v) the last revision of the GS validation report /5/,
- (vi) documentation of previous verifications /6/,

Other supporting documents, such as publicly available information and background information were also reviewed. The list of documents reviewed during the verification is provided under Appendix 3 of this report.

D.2. On-site inspection

The activities performed during on-site assessment were listed as follows:

Duration of on-site assessment: 19/07/2022				
No.	Activity performed	Site location	Date	Team member
1.	Opening meeting	Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China	19/07/2022	Du Wenjun
2.	Interview with PP Representative, Operation Staff and local stakeholders	Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China	19/07/2022	Du Wenjun
3.	Documents check	Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China	19/07/2022	Du Wenjun
4.	Finding Summary	Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China	19/07/2022	Du Wenjun
5.	Close Meeting	Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China	19/07/2022	Du Wenjun

D.3. Interviews

D.3.1. Interviews with Project owner, operation staffs and local stakeholders

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Liu	Yuzhi	Manager, Three Gorge Group	19/07/2022	- General aspects of the	Du Wenjun

2	Cui	Yue	Plant Manager, the project owner		- project - Changes since validation / previous verifications - Calibration procedures - Power generation situation - Quality management system - Involved personnel and responsibilities - Training and practice of the operational personnel - Implementation of the monitoring plan - Monitoring data management - Data uncertainty and residual risks - Procedural aspects of the verification - Maintenance - Environmental aspects - Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Livelihood of the poor - Access to energy service	
3	Long	Gang	Village Leader, Xishagou Village	19/07/2022	- Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Access to energy service	Du Wenjun
4	Chen	Ting	Villager, Xishagou Village	19/07/2022	- Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Access to energy service	Du Wenjun
5	Zhang	Yu	Villager, Xishagou Village	19/07/2022	- Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Access to energy service	Du Wenjun
6	Zhang	Ailing	Villager, Xinghua Village	19/07/2022	- Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Access to energy service	Du Wenjun

7	Li	Laifu	Villager, Xinghua Village	19/07/2022	- Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Access to energy service	Du Wenjun
8	Li	Jifu	Villager, Xinghua Village	19/07/2022	- Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Access to energy service	Du Wenjun
9	Zhang	Xingfu	Villager, Xinghua Village	19/07/2022	- Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Access to energy service	Du Wenjun
10	Li	Zhilong	Villager, Xinghua Village	19/07/2022	- Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Access to energy service	Du Wenjun
11	Ding	Guangrui	Engineer, Wulan County Ecology and Environment Bureau	19/07/2022	- Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Access to energy service	Du Wenjun
12	Zhou	Youshi	Staff, Ulan County Limin Household Administration Dredging and Repair Factory (responsible for collection of solid waste and wastewater)	19/07/2022	- Job opportunities - Salary level - Water quality and quantity - Solid waste - Biodiversity - Access to energy service	Du Wenjun
11	Lin	Keming	Consultacy	19/07/2022	- Monitoring plan - Monitoring training - Emission reduction calculation	Du Wenjun

C.3.2. Type of Questions asked by the team members:

During the on-site assessment, the verifier has randomly selected operation staffs from project implementer and local stakeholders as above table to confirm that the correctness of the project SDG and Safeguarding Principle monitoring data and information reported by the PP.

The questions asked were basically based on requirements of the GS4GG and MR description.

- Water quality and quantity - Wastewater treatment, discharge amount of sanitary wastewater
- Other pollutants (Solid wastes) - Domestic rubbish treatment
- Quantitative employment and income generation - Job opportunities, salary, Financial balance, employment opportunities especially for women, Monthly payroll
- Quality of employment - Training regarding operation and maintenance
- Biodiversity (species and habitat conservation) - Impact by the project on the local ecological environment
- Access to energy service - Electricity generation

A summary of interview questions and feedback received are presented in the below table:

SD indicators	Questions for operation staffs and local stakeholders during the site interviews	Summary of feedback
Water quality and quantity	1. Is there any wastewater discharged to the river?	Never
Other pollutants (Soil wastes)	2. How is the soil quality after the installation and operation of the project?	It is not affected.
	3. Is there any solid waste discharged by the project and impact the local environment?	Domestic solid waste have been collected together and periodically transferred to the local waste disposal plant for further treatment. Solid wastes were well treated and no impact to local environment
Biodiversity	4. Do you think the project affect the fauna of the site?	No negative impact on biodiversity. The project is located on barren land and there are no rare and valuable plant and animal species. The the open space among the photovoltaic module arrays has been replanted.
	5. Do you think the project affects the ecological environment of the site?	No negative impact on local ecological environment.
Quantitative employment and income generation	6. Do you think that this project offers opportunities for employment?	Yes, the projects provide very good opportunities for employments of local residents.
	7. Is there any permanent jobs and tentative jobs provided by the project?	Permanent and tentative jobs are offered by the project proponents.
	8. What is the main way of making money in your household?	The main way is agriculture.
	9. Do you think that this project offers job opportunities for women?	Yes, the projects provide very good opportunities for local women residents.
	10. Do you think that this project could provide income to employees higher than the average level?	Yes, higher salary is offered by the project proponents.
Access to energy services	11. Do you have electricity access before and now?	Before there were more blackouts but this was solved with the project
	12. How much on average do you have to pay for electricity in the past? How is it compared with the actual situation with the project?	The prices did not change but we have more steady local electricity supply.
	13. Do you think the project will contribute to a long lasting solution for your energy needs?	Yes, because the energy is generated locally.
Quality of employment	14. Do you think that the trainings will be offered to workers in this project?	Yes
	15. What kind of training will be provided?	Technology, plant operation, monitoring, emergency and safety procedures
-	16. How do you communicate your questions or comments to the PP?	The personnel of the plant organized public meetings and always is possible to communicate directly with the designated personnel of the plant.

Verification Team along with on-site observation, objective evidence collections, data generation and recording analysis also considered the views obtained in these interviews while arriving at Verification Opinion.

D.4. Sampling approach

No sampling approach has been used by the PP as per the PDD.

D.5. Clarification requests, corrective action requests and forward action requests raised

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
General Description of Project	-		-
Remaining forward action requests from validation and/or previous verification	-	-	-
Compliance of the project implementation with the registered project design document	-	-	-
Post-registration changes	-	-	-
Compliance of the monitoring system applied by the project with the registered monitoring plan	CL 01	-	-
Compliance of monitoring activities with the registered monitoring plan	-		
SDG Data and parameters fixed ex ante or at renewal of crediting period	-	-	-
SDG Data and parameters monitored	-	-	-
Comparison of monitored parameters with last monitoring period	-	-	-
Compliance of the sampling implementation with the registered sampling plan	-	-	-
Assessment of data and calculation of SDG Impacts	-		
Calculation of baseline value or estimation of baseline situation of each SDG Impact	-	-	-
Calculation of project value or estimation of project situation of each SDG Impact	-	CAR 01, CAR 02	-
Calculation of leakage	-	-	-
Calculation of net benefits or direct calculation for each SDG Impact	-	-	-
Comparison of actual SDG Impacts with estimates in approved PDD	-	-	-
Remarks on increase in achieved SDG Impacts from estimated value in approved PDD	-	-	-
Safeguards reporting	-	-	-
Stakeholder inputs and legal disputes	-	-	-
Others (please specify)	-	-	-
Total	1	2	-

SECTION E. Verification findings**E.1. General Description of Project**

Means of verification	A draft monitoring report was submitted to the verification team by the project participants prior to the start of the verification activities. It is checked that the appropriate form has been used for compiling the MR as per the Gold Standard for Global Goals Monitoring Report Template version 1.1 in 14/10/2020 /19/. Furthermore, every section has been checked against the GS4GG Principles & Requirements /20/. Via on-site visit, checking registered GS PDD /3/ and nameplate of polycrystalline silicon solar cell modules /17/, CTI confirmed that the project is a grid connected solar power project with total installed capacity of 10.36MWp, which consists of 41,440 pieces of the polycrystalline silicon solar cell modules with unit capacity of 250Wp. 16,103.7 MWh power will be supplied to Northwest China Power Grid (NWPG) annually, which is mainly dominated by fossil fuel power output. The project activity, located Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China, is a solar power project activity, which uses renewable solar energy to generate electricity displacing fossil fuel dominated electricity generation in NWPG and thus resulting in greenhouse gases emission reductions. The project activity helps to reduce
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	greenhouse gas (GHG) emissions by an estimated 13,798 tCO₂e per year during the first crediting period. By implementing the project, PP has contributed to sustainable development through the reduction of GHG emissions and other pollutants, ensuring local power supply and providing an opportunity for local community to generate steady and continual job opportunities & income for their livelihood. The project is applicable to the applied CDM approved methodology of AMS I.D. (Version 17.0): "Grid connected renewable electricity generation". The detailed geographic coordinates of the project included in this monitoring period is listed as below: <table border="1"> <thead> <tr> <th>No.</th><th>Project Location</th></tr> </thead> <tbody> <tr> <td>Host Country</td><td>P.R.China</td></tr> <tr> <td>Region</td><td>Qinghai Province</td></tr> <tr> <td>Project location</td><td>Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China</td></tr> <tr> <td>Geographical Coordinates</td><td>East longitude 98°23'09" and North latitude 36°59'11"</td></tr> </tbody> </table> The project was registered as a GS-CER project with the registration number of GS 2679. According to the validation report /6/ and previous verification report /6/, the first crediting period is 7 years with the start date of 20/12/2013, this monitoring period from 01/01/2017 to 19/12/2020 belongs to the first crediting period. As part of site visit, the Verification Team was able to confirm that the project description in MR is in accordance with the project description contained in the PDD /3/.	No.	Project Location	Host Country	P.R.China	Region	Qinghai Province	Project location	Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China	Geographical Coordinates	East longitude 98°23'09" and North latitude 36°59'11"
No.	Project Location										
Host Country	P.R.China										
Region	Qinghai Province										
Project location	Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China										
Geographical Coordinates	East longitude 98°23'09" and North latitude 36°59'11"										
Findings	N/A										
Conclusion	It can be confirmed that the final version Monitoring report /1/ is complete and transparent and in accordance with the PDD /3/ and GS4GG Monitoring Report Template version 1.1 in 14/10/2020 /19/. Refer to the below sections for details.										

E.2. Remaining forward action requests from validation and/or previous verification

This is the 3rd verification of the project activity. Via checking the 2nd verification report /6/, CTI verified that there is no FAR was raised at the 2nd periodical performance certification.

E.3. Compliance of the project implementation with the registered project design document

Means of verification	By means of an in-depth review of the PDD and the checks carried out during the on-site visit, an assessment has been carried out whether the project has been implemented and operated in line with the PDD and whether all physical features of the project are in place. The following has been checked: implemented technology, project equipment as well as monitoring equipment. Furthermore, CTI has checked if relevant technical equipment of the project activity has been exchanged or modified during the monitoring period and consistent notations of key equipment (meters etc.) in PDD /3/, MR /1/ and ER calculation spreadsheet /2/ are applied. The verifier has performed an on-site assessment and conducted interview with operation staffs and local stakeholders, in addition checked all the provided evidence as listed in Appendix 3, CTI found that the project has been put into operation normally and CTI found that the implementation of the project activity is in accordance with the registered GS PDD /3/ and registered passport /4/. As per the registered GS-PDD /3/, the project start date was 17/07/2013 when Engineering, Procurement and Construction contract was signed and the project started construction on 18/07/2013. The project started operation on 20/12/2013, which has been confirmed in the daily operational log /12/ against the and previous verification report /6/. This (3rd) monitoring period is from 01/01/2017 to 19/12/2020. However, as per "APPLICABILITY OF MINIMUM SITE VISIT REQUIREMENTS BY VVB" issued on 16/08/2021, in
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case follow-up site visits are not conducted within three years after the previous site visit, and when the delays were due to Non-Force Majeure, the VVB shall not verify the monitoring period falling before three years of the site visit date. On 19/07/2022, CTI performed on site assessment for this monitoring period and therefore, **only GS-VERs achieved during the period from 19/07/2019 to 19/12/2020 will be claimed for this monitoring period, i.e. the reporting period is from 19/07/2019 to 19/12/2020.**

The SDG monitoring parameters used during this monitoring period to arrive at the SDG impacts are transparently described in the Monitoring Report. The quantity of net electricity generation supplied to the grid by the project activity is 18,575.823 MWh during the reporting period from 19/07/2019 to 19/12/2020, which is verified by checking meter recording records (MRRs) /11/ and the Electricity Transaction Notes (ETNs) /10/. The emission reductions claimed during this monitoring period are 15,917 tCO₂e /2/.

The details of verification against if any changes incorporated by PP during this monitoring period are provided in the respective sections and there is no significant change observed in the listed monitoring parameters since last verification.

PP has provided detailed specifications in the MR section B.1. Verification team herewith confirms that the specifications of main equipment are the same as provided in the registered PDD and photos of the nameplates of equipment /17/, and has been confirmed through on-site assessment.

Basic technical details of the project are summarized in below table.

Item		Unit	Data
Solar Sell module	type		JKM250P-60
	Number		41440
	Rated Max. Power	Wp	250
	Rated Voltage number	V	30.4
	Rated Current	A	8.23
	Open Circuit voltage	V	37.6
	Short Circuit current	A	8.81
	Lifetime	year	25
Inverter	Type		DS 500KTL
	Number		20
	Rated Output power	kW	500
	Rated Output frequency	HZ	50/60

Interviews with operational personnel have been carried out, QMS records, maintenance records, instrument specifications were checked in this context.

This is the 3rd monitoring period belongs to 1st crediting period and the verification team herewith confirms that the project implementation is consistent since the last periodical verification /6/ as mentioned in the registered GS PDD /3/. There are no major obstructions or gaps noted during this monitoring period.

The actual distribution and operation were found in accordance with the descriptions provided in the PDD. There is no deviation / change evidenced during this monitoring period and there were no delays compared to information in approved project.

Findings

CAR 01 was raised and resolved.
Refer to Appendix 4 for detail assessment.

Conclusion

Assessment concludes the following:

- The implementation status of project activity was found to be in compliance with PDD /3/.
- CTI has conducted an on-site assessment to confirm the implementation status of the project and the realized technology /17/.
- The actual operation of project activity was found to be in compliance with PDD /3/.
- There were no delays compared to information in approved project.

E.4. Post-registration changes**E.4.1. Temporary deviations from Certified Key Project Information, Project Design Document, Monitoring & Reporting Plan, applied methodology or applied standardized baseline**

Not Applicable

E.4.2. Corrections

Not Applicable

E.4.3. Changes to start date of crediting period

Not Applicable

E.4.4. Permanent changes from registered monitoring plan, applied methodology or applied standardized baseline

Not Applicable

E.4.5. Changes to project design of approved project

Not Applicable.

E.5. Compliance of the monitoring system applied by the project with the registered monitoring plan

Means of verification	By means of comparison of the MR /1/ with the applied CDM methodology /18/ and all applicable GS4GG guidelines, the verification team has checked whether the monitoring system is in compliance with the monitoring plan /3/ and related requirements of the applied methodology /18/, whether the source and the applied value of the SDG monitored parameter is acceptable; whether the parameters monitored explain the operational and management structure, responsibilities and institutional arrangement for data collection/archiving, QA/QC procedures. The monitoring system applied by the project compliance with the registered monitoring plan is demonstrated as below: Organizational structure The MR contains a diagram illustrating the Operations and Management Structure to be implemented by the project owner in order to implement the project activity which is confirmed to be consistent with the registered GS PDD. A monitoring panel was established by the plant managers to be in charge of monitoring the data and information relating to the calculation of emission reductions with the cooperation of the Technical and Financial Department. A GS manager was assigned in full charge the monitoring works. The organizational structure is considered sufficient to fulfil the monitoring requirements of the methodology and ensure that emission reductions verified for this monitoring period. Monitoring Measures The monitoring procedures applied by the project compliance with the registered monitoring plan /3/ is demonstrated as below: - For monitoring parameters related to SDG 13, parameters ER_y was monitored. Emission reductions achieved in year y (ER_y) were calculated by $EG_{facility,y}$ and power grid emission factor. - For monitoring parameter related to SDG 7, parameter $EG_{facility,y}$ is monitored. Quantity of net electricity generation supplied to the grid in year y ($EG_{facility,y}$) was calculated by as the difference between the measured quantities of the grid electricity export and import.
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The quantity of the grid electricity export was continuously measured by meter M1 (bi-directional with accuracy 0.2S) installed at the 35kV line of the Project.

The quantity of the grid electricity import was continuously measured by meter M1 (bi-directional with accuracy 0.2S) installed at the 35kV line of the Project and meter M2 (with accuracy 0.5S) installed at the auxiliary power line.

During site visit, it was identified that Meter M2 measures the total quantity of the grid electricity import by the Project and other Project(s) through auxiliary power line. For conservativeness, the total quantity of the grid electricity import measured by M2 was deemed as the quantity of the grid electricity import by the project.

- **For monitoring parameter related to SDG 8**, parameters quality of employment and Quantitative employment and income generation are monitored.

4 times trainings have been provided for the staffs on the technology and monitoring of the plant operation, and the emergency and safety procedures. 6 long term jobs with annual average salary of 132,765 CNY have been provided.

During this monitoring period, the safeguarding principle monitoring parameters, including Water Quality and Quantity, Air Quality, Other pollutants were verified.

During site visit, wastewater treatment facility (septic-tank) have been checked and local stakeholders have been interviewed for "waster quality and quantity". All waste water from the project have been treated then used as greening water.

18,575.823 MWh of net electricity generation have been supplied to the grid by the project activity. "Air Quality" was verified through checking on online data. The SO₂ and NO_x that could be generated in the baseline scenario are calculated as 42.724kg and 48.297kg respectively. The air quality in the operation quality was effectively improved against the baseline scenario.

During site visit, domestic solid waste collecting device and the wasted equipment collecting place have been checked during site visit. Solid waste have been collected together and periodically transferred to the local waste disposal plant for further treatment according to the requirement in the GS passport /4/.

Calibration of electricity meters

Calibration was verified by checking calibration certificate /7/ and Accreditation certificate /8/, all monitoring equipment meets the requirement indicated in the PDD.

Quality control and Emergency procedures

The related QA/QC procedure has been conducted by PP for the monitoring process including data verification and cross check by monitoring team and project owner which has been verified by checking the related manual /15/ and calibration certificates of monitoring electricity meters /7/.

CTI confirmed that the QA/QC procedure has been implemented by PP properly during this monitoring period and the data management is confirmed as effective.

If meter M1 was malfunction, quantity of the grid electricity export and import will be confirmed based on the conventional process accepted by project owner and Grid Company during the meter troubleshooting period. If meter M2 was malfunction, quantity of the grid electricity import will be confirmed based on the conventional process accepted by project owner and Grid Company during the meter troubleshooting period.

Data Management System

Data management have been verified during site visit. As confirmed with PP, electronic and paper records will be kept for a minimum of two years after the end of the crediting period.

Non-Double counting assessment

The VVB has checked for double counting by reviewing all relevant registries including CDM /21/, VCS /22/ and other GHGs programs such as China CCER /35/, EU ETS, IREC or subnational, various regional schemes such as the Canadian and American provincial/state-based schemes. CTI confirmed that there is no potential exists for Double

	Counting of emissions reductions due to issuance of Gold Standard VERs/CO₂-certificates from the considered project activity. Furthermore, the project activity contained in the MR have been verified through checking verification report of previous monitoring period /6/ and the registered GS PDD /3/. The project equipment's information is also verified during on-site assessment and confirmed as consistent with the GS PDD /3/. Therefore, It is concluded that the double counting of the ER calculation was avoided and the risk of double counting is unlikely to happen. In conclusion, the MP is completely in accordance with the approved methodology applied by the project /18/ and registered GS PDD /3/.
Findings	CL 01 was raised and resolved. Refer to Appendix 4 for detail assessment.
Conclusion	The monitoring plan complies with the applied methodology and the monitoring system and all applied procedures are completely in compliance to the latest approved monitoring plan and the methodology.

E.6. Compliance of monitoring activities with the registered monitoring plan

E.6.1. SDG Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	The values of ex-ante parameter assessed in the table given below: Ex Ante Data and Parameters			
	SDG13 Parameters	Source of data	Values applied	Assessment by Verification team
	EF _{grid,OM,y}	Data from registered GS PDD /3/	0.9720 tCO ₂ e/MWh	This value is sourced from 2013 baseline emission factors for regional power grids in China issued by China DNA and will be fixed during the 1 st crediting period.
	EF _{grid,BM,y}	Data from registered GS PDD /3/	0.5115 tCO ₂ e/MWh	This value is sourced from 2013 baseline emission factors for regional power grids in China issued by China DNA and will be fixed during the 1 st crediting period.
	w _{OM}	Data from registered GS PDD /3/	0.75	This is an ex-ante fixed value determined as per "Tool to calculate the emission factor for an electricity system" (version 04.0) and will be fixed during the 1 st crediting period.
	w _{BM}	Data from registered GS PDD /3/	0.25	This is an ex-ante fixed value determined as per "Tool to calculate the emission factor for an electricity system" (version 04.0) and will be fixed during the 1 st crediting period.
	EF _{grid,CM,y}	Data from registered GS PDD /3/	0.856875 tCO₂e/MWh	As per the registered PDD /3/ and "Tool to calculate the emission factor for an electricity system" (version 04.0), EF _{grid,CM,y} is ex-ante determined through parameters EF _{OM} , EF _{BM} , w _{OM} , and w _{BM} and was calculated to be: 0.9720tCO ₂ /MWh*0.75+0.5115tCO ₂ /MWh*0.25=0.856875 tCO ₂ e/MWh
	The parameters FC_{i,y}, NCV_{i,y}, EF_{CO₂,i,y}, GEN_y, AER_y, F_{i,j,y}, EF_{Coal,Adv,y}, EF_{Oil,Adv,y}, EF_{Gas,Adv,y}, CAP_{Total,y}, CAP_{Thermal,y} that listed in section B.6.2 of the registered PDD were used to calculate EF_{grid,OM,y} and EF_{grid,BM,y}. The assessment team has checked that all the ex-ante parameters were fixed at the level of PA and were verified from the registered GS PDD /3/. Also, the ex-ante parameter values have been consistently applied for the ER calculation which is evident from the ER calculation sheet /2/.			
Findings	N/A			
Conclusion	The value mentioned in the Monitoring Report /1/ and Emission Reduction Spreadsheet /2/ are consistent with the PDD /3/. The applied value is correct and justified.			

E.6.2. SDG Data and parameters monitored

Means of verification		
	Relevant SDG:	SDG 13
	Data/Parameter	ER _y
	Unit	tCO ₂
	Description	Emission reduction in year y
	Value applied for this monitoring period	15,917
	Measuring /Reading /Recording frequency	Each verification
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	N/A
	Monitoring equipment with accuracy	N/A
	Is the installed monitoring equipment has been duly calibrated for this entire monitoring period?	N/A
	How were the values in the monitoring report verified?	This parameter is calculated as: $ER_y = EG_{facility,y} * EF_{grid,CM,y}$ EG_{facility,y} is calculated as the difference between the measured quantities of the grid electricity export and import. ER_y in the MR has been calculated based on the values of the measured quantities of the grid electricity export and import, and EF_{grid,CM,y} as assessed in above tables.
	If applicable, has the reported data been cross-checked with other available data?	Yes. For the measured quantities of the grid electricity export and import, the MRRs /11/ have been cross-checked with values in monthly ETNs /10/ and verified as consistent. The EF_{grid,CM,y} has been justified in section E.6.1 of this report.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, QA/QC procedure for calculation; procedure for training records /13/ were established and implemented. The data flow and protection process were confirmed during on-site assessment.
	Relevant SDG:	SDG 7
	Data/Parameter	EG _{facility,y}
	Unit	MWh
	Description	Quantity of net electricity generation supplied to the grid in year y
	Value applied for this monitoring period	18,575.823
	Measuring /Reading /Recording frequency	Continuous measurement and monthly recording
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes /	Yes, the measuring and reporting frequency are in line with the registered PDD /3/ and applied methodology /18/.

	No)																																			
	Monitoring equipment with accuracy	This parameter is monitored by electricity meters listed below, <table><tr><td>Electricity meter</td><td>M1</td><td>M2</td></tr><tr><td>Type</td><td>DTSD341</td><td>DSSD331</td></tr><tr><td>Serial Number</td><td>01300651</td><td>06011369</td></tr><tr><td>Accuracy</td><td>0.2S</td><td>0.5S</td></tr><tr><td rowspan="5">Calibration date</td><td>03/12/2016</td><td>03/12/2016</td></tr><tr><td>01/12/2017</td><td>01/12/2017</td></tr><tr><td>28/11/2018</td><td>28/11/2018</td></tr><tr><td>20/11/2019</td><td>20/11/2019</td></tr><tr><td>16/11/2020</td><td>16/11/2020</td></tr><tr><td rowspan="5">Validity</td><td>02/12/2017</td><td>02/12/2017</td></tr><tr><td>30/11/2018</td><td>30/11/2018</td></tr><tr><td>27/11/2019</td><td>27/11/2019</td></tr><tr><td>19/11/2020</td><td>19/11/2020</td></tr><tr><td>15/11/2021</td><td>15/11/2021</td></tr></table>	Electricity meter	M1	M2	Type	DTSD341	DSSD331	Serial Number	01300651	06011369	Accuracy	0.2S	0.5S	Calibration date	03/12/2016	03/12/2016	01/12/2017	01/12/2017	28/11/2018	28/11/2018	20/11/2019	20/11/2019	16/11/2020	16/11/2020	Validity	02/12/2017	02/12/2017	30/11/2018	30/11/2018	27/11/2019	27/11/2019	19/11/2020	19/11/2020	15/11/2021	15/11/2021
	Electricity meter	M1	M2																																	
	Type	DTSD341	DSSD331																																	
Serial Number	01300651	06011369																																		
Accuracy	0.2S	0.5S																																		
Calibration date	03/12/2016	03/12/2016																																		
	01/12/2017	01/12/2017																																		
	28/11/2018	28/11/2018																																		
	20/11/2019	20/11/2019																																		
	16/11/2020	16/11/2020																																		
Validity	02/12/2017	02/12/2017																																		
	30/11/2018	30/11/2018																																		
	27/11/2019	27/11/2019																																		
	19/11/2020	19/11/2020																																		
	15/11/2021	15/11/2021																																		
Is the installed monitoring equipment has been duly calibrated for this entire monitoring period?	Yes, CTI has checked all related calibration certificates /7/ and the calibration for meters was conducted by qualified third party /8/. The calibration certificates of electricity meters /7/ are valid for the entire 3rd monitoring period.																																			
How were the values in the monitoring report verified?	The quantity of the grid electricity export was continuously measured by meter M1 (bi-directional with accuracy 0.2S) installed at the 35kV line of the Project. At 24:00 of the last day of every month, the raw data of meter reading of meter M1 are recorded by local power grid company and project owner, the project owner would form Monthly Reading Records (MRRs) /11/ based on the meter readings. The local power grid company will issue ETNs /10/ accordingly. The quantity of the grid electricity import was continuously measured by meter M1 (bi-directional with accuracy 0.2S) installed at the 35kV line of the Project and meter M2 (with accuracy 0.5S) installed at the auxiliary power line. At 24:00 of the last day of every month, the raw data of meter reading of Main meter M1 and meter M2 are recorded by the local power grid company and project owner, the project owner would form Monthly Reading Records (MRRs) /11/ based on the meter readings. The local power grid company will issue ETNs /10/ accordingly. During site visit, it was identified that Meter M2 measures the total quantity of the grid electricity import by the Project and other Project(s) through auxiliary power line. For conservativeness, the total quantity of the grid electricity import measured by M2 was deemed as the quantity of the grid electricity import by the project. By checking the operation log /12/ and interview with the project owner through on-site assessment, it is confirmed neither failure nor exchange of Meter M1 or M2 was identified during the monitoring period. The data from MRRs and ETNs have been sent to the consulting company for reporting of GHG emission reduction. The conservative one would be used for ER calculation. The reported value in the MR has been recalculated by the verification team based on the values from the MRRs. Based on MRRs /11/, the verification team calculated the data aggregation completely independent from the calculation provided by the PP. 100% of the MRRs /11/ have been verified. The values have been cross-checked with ETNs /10/ and verified as consistent.																																			

	If applicable, has the reported data been cross-checked with other available data?	Yes. The MRRs /11/ have been cross-checked with values in monthly ETNs /10/ and verified as consistent.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, QA/QC procedure for calculation; procedure for monitoring staff training and competence /13/ were established and implemented. The data flow and protection process were observed during the on-site inspection.
	Relevant SDG:	SDG 8
	Data/Parameter	Quantitative employment and income generation
	Unit	N/A
	Description	Number of jobs provided in the operations of the project and their salary levels
	Value applied for this monitoring period	6 long-term work positions for local people have been created with 132,765 CNY yearly average salary for every employee
	Measuring /Reading /Recording frequency	Yearly during the operation period
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes, the measuring and reporting frequency are in line with the Registered Passport /4/.
	Monitoring equipment with accuracy	N/A
	Is the installed monitoring equipment has been duly calibrated for this entire monitoring period? (Yes / No)	N/A
	How were the values in the monitoring report verified?	After checking Salary Payroll of year 2019-2020 issued by the project owner /16/, it is confirmed that 6 long-term work positions for local people have been created with 132,765 CNY yearly average salary for every employee. The same have been confirm via interviewing with employee of the project owner. Also, after checking Qinghai Statistical Yearbook 2021 /27/, it is found the average salary of the project activity is much higher than the salary level of power industry in Qinghai province (92,792 CNY).
	If applicable, has the reported data been cross-checked with other available data? (Yes / No)	N/A
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	N/A
	Relevant SDG:	SDG 8
	Data/Parameter	Quality of employment
	Unit	N/A
	Description	The project organizes trainings for the staffs on the technology and monitoring of the plant operation, and the emergency and

		safety procedures, etc.
	Value applied for this monitoring period	4 times trainings were provided by the project owner
	Measuring /Reading /Recording frequency	Every monitoring period
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes, the measuring and reporting frequency are in line with the Registered Passport /4/.
	Monitoring equipment with accuracy	N/A
	Is the installed monitoring equipment has been duly calibrated for this entire monitoring period? (Yes / No)	N/A
	How were the values in the monitoring report verified?	By checking all the training records /13/, it is confirmed that the project owner provides sufficient training for the employee on the technology and the monitoring of the plant operation, and the emergency and safety procedures. The trainings were provided on 18/10/2019, 28/01/2020, 03/03/2020 and 25/10/2020 respectively during this monitoring period. The same has been confirmed through interview with employees of the project owner.
	If applicable, has the reported data been cross-checked with other available data? (Yes / No)	N/A
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	N/A
Findings	N.A.	
Conclusion	The parameters have been monitored appropriately, in accordance with the registered PDD /3/, registered passport /4/ and applied methodology /18/. The monitoring results were recorded consistently as per the approved frequency in the registered PDD /3/ and registered passport /4/.	

E.6.3. Comparison of monitored parameters with last monitoring period

Means of verification	Not applicable due to the project is non-Community Service Activities.
Findings	N/A
Conclusion	N/A

E.6.4. Compliance of the sampling implementation with the registered sampling plan

Means of verification	N/A
Findings	N/A
Conclusion	N/A

E.7. Assessment of data and calculation of SDG impacts

E.7.1. Calculation of baseline value or estimation of baseline situation of each SDG Impact

Means of verification	SDG 8 Baseline Impact: Via checking the MR /1/ and through interview with representative of staffs, CTI confirmed that the project created jobs, provides income and training to staffs.
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	In the baseline situation, as per interview with representative of staffs, CTI verified that no new job created, no income and no training without this project. Therefore, Baseline Impact benefit is zero. SDG 7 Baseline Impact: Via checking the MR /1/ and through interview with stakeholders, CTI confirmed that the project promotes access to affordable and clean energy services. In the baseline situation, as per the interview with representative of staffs, CTI verified that electricity was generated by other fossil fuel sources. Therefore, Baseline Impact benefit is zero. SDG 13 Baseline Impact: Via checking the MR /1/ and ER sheet /2/, CTI confirmed that the project created GHG emission reduction. In the baseline situation, as per interview with representative of staffs, CTI verified that there was no operation of renewable power generation, all the electricity demand would be supplied by the power grid as usual without this project, hence no GHG emission reduction would be achieved in baseline scenario. Therefore, Baseline Impact benefit is zero.
Findings	N/A
Conclusion	The verification team confirms that: a) The complete data was available and is duly reported; b) As indicated above, the description with regard to cross-check of reported data is included under respective parameter (refer Section E.6.2. of this report); c) Appropriate methods and formulae for calculating baseline SDG impact; d) Appropriate emission factors and other reference values were correctly applied. e) The calculation of baseline situation of each SDG impact is correct.

E.7.2. Calculation of project value or estimation of project situation of each SDG Impact

Means of verification	SDG 8 Project Impact: For SDG 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all. During this reporting period, 4 times trainings have been provided for the staffs on the technology and monitoring of the plant operation, and the emergency and safety procedures. 6 long term jobs with annual average salary of 132,765 CNY have been provided. The same has been verified in section E.6.2 of this report. Therefore, the SDG 8 project impact is 4 times trainings and 6 long term jobs with annual average salary of 132,765 CNY. SDG 7 Project Impact: For SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all During this reporting period, quantity of net electricity generation supplied to the grid by the project was 18,575.823 MWh which has been verified in section E.6.2 of this report. Therefore, the SDG 7 project impact is 18,575.823 MWh. SDG 13 Project Impact: For SDG 13 - Climate Reductions The GHG Emission Reductions value of this project is calculated as below steps, Baseline Emissions Calculation The formula used for the determination of baseline emissions which is consistent with the registered PDD and the applied methodology: $BE_y = EG_{\text{facility},y} * EF_{\text{grid,CM},y} \quad (1)$ According to the PDD, $EG_{\text{facility},y}$ is equal to the difference between the measured quantities of
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the grid electricity export and import. in monitoring plan.

Where:

BE_y Baseline Emissions (tCO_2e)

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

$EF_{grid,CM,y}$ Combined Margin CO_2 emission factor in year y (tCO_2e/MWh)

Therefore, BE_y is calculated as:

Monitoring Period		The quantity of the grid electricity export (MWh)		
		MRRS from M1	ETNs	Conservative data
		A	B	C=MIN(A,B)
01/01/2017	18/07/2019	0	0	0
19/07/2019	31/07/2019	562.660	562.660	562.660
01/08/2019	31/08/2019	1,236.530	1,236.530	1,236.530
01/09/2019	30/09/2019	954.500	954.500	954.500
01/10/2019	31/10/2019	1,058.520	1,058.520	1,058.520
01/11/2019	30/11/2019	1,027.713	1,027.713	1,027.713
01/12/2019	31/12/2019	963.167	963.167	963.167
2019 SUM		5,803.090	5,803.090	5,803.090
01/01/2020	31/01/2020	1,192.710	1,192.710	1,192.710
01/02/2020	29/02/2020	1,123.130	1,123.130	1,123.130
01/03/2020	31/03/2020	1,195.210	1,195.210	1,195.210
01/04/2020	30/04/2020	1,245.110	1,245.110	1,245.110
01/05/2020	31/05/2020	1,060.870	1,060.870	1,060.870
01/06/2020	30/06/2020	1,024.940	1,024.940	1,024.940
01/07/2020	31/07/2020	1,033.280	1,033.280	1,033.280
01/08/2020	31/08/2020	1,130.970	1,130.970	1,130.970
01/09/2020	30/09/2020	1,289.710	1,289.710	1,289.710
01/10/2020	31/10/2020	1,102.260	1,102.260	1,102.260
01/11/2020	30/11/2020	806.480	806.480	806.480
01/12/2020	19/12/2020	718.920	718.920	718.920
2020 sum		12,923.590	12,923.590	12,923.590
Total		18,726.680	18,726.680	18,726.680

Monitoring Period		The quantity of the grid electricity import (MWh)						$EG_{facility,y}$ (MWh)
		MRRS from M1	ETNs	Conservative data	MRRS from M2	ETNs	Conservative data	
		D1	E1	F1=MAX(D1,E1)	D2	E2	F2=MAX(D2,E2)	G=C-F1-F2
01/01/2017	18/07/2019	0	0	0	0	0	0	0
19/07/2019	31/07/2019	1.960	1.960	1.960	0.709	0.709	0.709	559.991
01/08/2019	31/08/2019	4.970	4.970	4.970	0.760	0.760	0.760	1,230.800
01/09/2019	30/09/2019	3.990	3.990	3.990	7.930	7.930	7.930	942.580
01/10/2019	31/10/2019	5.950	5.950	5.950	1.565	1.565	1.565	1,051.005
01/11/2019	30/11/2019	6.230	6.230	6.230	0.728	0.728	0.728	1,020.755
01/12/2019	31/12/2019	6.580	6.580	6.580	0.000	0.000	0.000	956.587
2019 SUM		29.680	29.680	29.680	11.692	11.692	11.692	5,761.718
01/01/2020	31/01/2020	6.300	6.300	6.300	1.569	1.569	1.569	1,184.841
01/02/2020	29/02/2020	5.460	5.460	5.460	0.873	0.873	0.873	1,116.797
01/03/2020	31/03/2020	5.390	5.390	5.390	0.756	0.756	0.756	1,189.064
01/04/2020	30/04/2020	4.760	4.760	4.760	0.748	0.748	0.748	1,239.602
01/05/2020	31/05/2020	4.830	4.830	4.830	0.769	0.769	0.769	1,055.271

	01/06/2020	30/06/2020	4.550	4.550	4.550	0.740	0.740	0.740	1,019.650
	01/07/2020	31/07/2020	4.760	4.760	4.760	0.517	0.517	0.517	1,028.003
	01/08/2020	31/08/2020	5.110	5.110	5.110	0.758	0.758	0.758	1,125.102
	01/09/2020	30/09/2020	5.250	5.250	5.250	6.238	6.238	6.238	1,278.222
	01/10/2020	31/10/2020	5.880	5.880	5.880	9.703	9.703	9.703	1,086.677
	01/11/2020	30/11/2020	5.950	5.950	5.950	11.664	11.664	11.664	788.866
	01/12/2020	19/12/2020	4.200	4.200	4.200	12.710	12.710	12.710	702.010
	2020 sum		62.440	62.440	62.440	47.045	47.045	47.045	12,814.105
	Total		92.120	92.120	92.120	58.737	58.737	58.737	18,575.823
	Therefore, BE _y is calculated as:								
Period		EG _{facility,y} (Mwh)		EF _{grid,CM,y} (tCO ₂ e/MWh)		BE _y (tCO ₂ e)		ER _y (tCO ₂ e)	
01/01/2017	18/07/2019	0		0.856875		0		0	
19/07/2019	31/12/2019	5,761.718		0.856875		4,937		4,937	
01/01/2020	19/12/2020	12,814.105		0.856875		10,980		10,980	
Total		18,575.823		-		15,917		15,917	
The baseline emissions (BE _y) during this monitoring period are calculated as 15,917 tCO ₂ e.									
Project Emission Calculation									
The project is a solar power project. according to the registered PDD /3/ and the methodology AMS-I.D., PE _y = 0 tCO ₂ e									
Leakage Calculation									
According to AMS I.D., there is no leakage considered, therefore, LE _y = 0 tCO ₂ e.									
The emission reductions (ER _y) of SDG 13 by the project during a given year y are calculated as: ER _y = BE _y -PE _y = BE _y =15,917 tCO ₂ e									
The SDG 13 Project Impact, i.e. emission reductions (ER _y) during this monitoring period is 15,917 tCO ₂ e.									
Findings	CAR 02 was raised and resolved. Refer to Appendix 4 for detail assessment.								
Conclusion	The verification team confirms that a) The complete data was available and is duly reported; b) As indicated above, the description with regard to cross-check of reported data is included under respective parameter (refer Section E.6.2. of this report); c) Appropriate methods and formulae for calculating project SDG impact were followed; The calculation of project situation of each SDG impact is correct.								

E.7.3. Calculation of leakage

Means of verification	Via checking the PDD of this project and applied methodology, it is confirmed that no leakage for this project was identified.
Findings	N/A
Conclusion	The verification team confirms that no leakage is considered.

E.7.4. Calculation of net benefits or direct calculation for each SDG Impact

Means of verification	Calculation of net benefits as difference of baseline and project values or direct calculation for each SDG impact is as following,			
	SDG	SDG Impact	Baseline estimate	Project estimate
	13	Emissions Reductions	0	15,917 tCO ₂ e
	8	Number of permanent and skilled jobs	0	6 long term jobs have been provided.
		Number of trainings	0	4 times trainings have been provided for the staffs on the technology

				technology and monitoring of the plant operation, and the emergency and safety procedures	and monitoring of the plant operation, and the emergency and safety procedures
		Average annual salary level of project staffs	0	Annual average salary of 132,765 CNY have been provided for 6 employees, which is much higher than the salary level of power industry in Qinghai province (92,792 CNY).	Annual average salary of 132,765 CNY have been provided for 6 employees, which is much higher than the salary level of power industry in Qinghai province (92,792 CNY).
	7	MWh of renewable energy supplied	0	18,575.823 MWh	18,575.823 MWh
Since the GS-VERs of period 01/01/2017-18/07/2019 are not claimed, the SDGs impacts listed above of this monitoring period from 01/01/2017-19/12/2020 only include Project estimate and net benefit of period 19/07/2019 -19/12/2020. All the figures as per the monitoring report were cross-checked by the verification team against basic monitored data. Refer to E.6.2 of this report for details assessment.					
Findings		N.A.			
Conclusion		The verification team confirms that a) The complete data was available and is duly reported; b) As indicated above, the description with regard to cross-check of reported data is included under respective parameter (refer Section E.6.2. of this report); c) Appropriate methods and formulae for calculating net benefits for each SDG impact were followed; The calculation of net benefits for each SDG impact is correct.			

E.7.5. Comparison of actual value of impacts with estimates in approved PDD

Means of verification	The verification team has checked if the MR includes a comparison of actual values of the monitoring period with the estimations in the registered passport /4/ for each SDG impact. Conclusion is as below table.				
	Item	Period	Indicator	Values estimated in ex ante calculation of registered documents	Actual values achieved during this monitoring period
	SDG 8	01/01/2017-19/12/2020	Number of permanent and skilled jobs	6 long term jobs	6 long term jobs have been provided.
			Number of trainings	The Project organise training for the staff on the technology and the monitoring of the plant operation, and the emergency and safety procedures.	4 times trainings
			Average annual salary level of project staffs	The salary of employees will be above the local average CNY 41,370/year.	Annual average salary of 132,765 CNY have been provided, much higher than the salary level of power industry in Qinghai province (92,792 CNY).
	SDG 7	01/01/2017-19/12/2020	MWh of renewable energy supplied	22,942 MWh	18,575.823 MWh
	SDG 13	01/01/2017-19/12/2020	emission reductions	19,657 tCO ₂ e	15,917 tCO ₂ e
Since the GS-VERs of period 01/01/2017-18/07/2019 are not claimed , the SDGs impacts listed					

	above of this monitoring period from 01/01/2017-19/12/2020 only include SDGs impacts of period 19/07/2019 -19/12/2020. And the actual SDG impacts of period 19/07/2019 -19/12/2020 were compared with that estimated.
Findings	N.A.
Conclusion	The MR includes a summary table of comparison of actual values of the monitoring period with the estimations in the registered passport /4/ for each SDG impact and the comparison results are confirmed as correct.

E.7.6. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD

Means of verification	For SDG 8, it was mentioned "the Project organise training for the staff on the technology and the monitoring of the plant operation, and the emergency and safety procedures" and "the Project will creates 6 jobs during operational period, and the salary of employees will be above the local average CNY 41,370/year". In the MR, the SDG impact achieved for this monitoring period was: 4 times trainings have been provided for the staffs on the technology and monitoring of the plant operation, and the emergency and safety procedures. 6 long term jobs with annual average salary of 132,765 CNY have been provided. The same was confirmed through checking training records /13/ and Salary Payroll of year 2019-2020 issued by the project owner /16/. Also, the same has been confirmed through interview with the project owner and local stakeholders. The SDG impacts achieved during this monitoring period is in compliance with that in the registered passport /4/. For SDG 7 and SDG 13, CTI confirmed that the actual electricity supplied to the grid and emission reductions during this monitoring period was found to be 19.03% lower than ex-ante estimated value in the PDD for this project during this monitoring period. CTI confirmed that the project installations and capacity are in line with the PDD via checking the nameplate of the polycrystalline silicon solar cell modules /17/. Hence, the lower emission reduction is not caused by the change of project installations and capacity, but caused by fluctuation of solar energy. The same has been confirmed through interview with the project owner.
Findings	N/A
Conclusion	The actual SDG impacts for 7 and 13 are lower than the estimated values in the registered PDD /3/ and actual SDG impacts for 8 is in compliance with that the estimated values given in the registered passport /4/, which is assessed as appropriate and accepted.

E.8. Safeguards reporting

Means of verification	Via checking registered passport /4/, CTI confirmed that there are three Safeguarding principles need to be monitored which have been assessed as below,	
	Relevant Safeguarding Principles:	9.4
	Data/Parameter	Water Quality and quantity
	Unit	N/A
	Description	The wastewater during operation period will be collected and treated through septic-tank or used as greening water.
	Value applied for this monitoring period	No negative impact
	Measuring /Reading /Recording frequency	Each verification
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes, the measuring and reporting frequency are in line with the registered passport /4/.
	Monitoring equipment with accuracy	N/A
	Is the installed monitoring equipment has been duly calibrated for this entire monitoring period? (Yes / No)	N/A
	How were the values in the monitoring report verified?	During site visit, it was verified that wastewater treatment facility (septic-tank) have been checked and local stakeholders have been interviewed. All waste water from the project have been treated then used as greening water. Also, by checking Waste treatment Records /28/ and Waste treatment Manual /29/, it is confirmed all waste water from the project have been treated then used as greening water. Therefore, it is able to confirm there was no negative impact identified for wastewater due to the project.
	If applicable, has the reported data been cross-checked with other available data? (Yes / No)	N/A
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	N/A
	Relevant Safeguarding Principles:	9.4
	Data/Parameter	Air quality
	Unit	N/A
	Description	Indirect parameter of "Total clean and renewable electricity supplied by the project" is measured in order to calculate the emission reductions of SO ₂ and NO _x , as multiplied by default national emission factor from the Chinese government.
	Value applied for this monitoring period	No negative impact
	Measuring /Reading /Recording frequency	The quantity of the grid electricity export and import was continuously measured and monthly recorded.

	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes, the measuring and reporting frequency are in line with the registered passport /4/.
	Monitoring equipment with accuracy	refer to monitoring of EG _{facility,y}
	Is the installed monitoring equipment has been duly calibrated for this entire monitoring period? (Yes / No)	refer to monitoring of EG _{facility,y}
	How were the values in the monitoring report verified?	Based on MRRs /11/, the verification team calculated the data aggregation completely independent from the calculation provided by the PP. 18,575.823 MWh of net electricity generation have been supplied to the grid by the project activity. "Air Quality" was verified through checking on online data. The SO ₂ and NO _x that could be generated in the baseline scenario are calculated as 42.724kg and 48.297kg respectively. The air quality in the operation quality was effectively improved against the baseline scenario.
	If applicable, has the reported data been cross-checked with other available data? (Yes / No)	Yes. The MRRs /11/ have been cross-checked with values in monthly ETNs /10/ and verified as consistent.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Yes, QA/QC procedure for calculation; procedure for monitoring staff training and competence /13/ were established and implemented. The data flow and protection process were observed during the on-site inspection.
	Relevant Safeguarding Principles:	9.4
	Data/Parameter	Other pollutants
	Unit	N/A
	Description	Domestic solid waste will be properly collected and periodically transferred to the local waste disposal plant for further treatment. The wasted equipment, such as the solar cell panel, will be collected together and transferred to the manufacturer.
	Value applied for this monitoring period	No negative impact
	Measuring /Reading /Recording frequency	Each verification
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes, the measuring and reporting frequency are in line with the registered passport /4/.
	Monitoring equipment with accuracy	N/A
	Is the installed monitoring equipment has been duly calibrated for this entire monitoring period? (Yes / No)	N/A
	How were the values in the monitoring report verified?	During site visit, domestic solid waste collecting device and the wasted equipment collecting place have been checked during site visit. Solid waste have been collected together and periodically transferred to the local waste disposal plant for further treatment. The same has been confirmed through checking Waste treatment Records /28/, Waste treatment Manual /29/ and Hazardous waste registration form /30/. This is in compliance with

		the requirement in the GS passport /4/. The same has been confirmed during interview with local stakeholders.
	If applicable, has the reported data been cross-checked with other available data? (Yes / No)	N/A
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	N/A
	Relevant Safeguarding Principles:	6.1
	Data/Parameter	Quantitative employment and income generation
	Unit	N/A
	Description	Number of jobs provided in the operations of the project and their salary levels
	Value applied for this monitoring period	6 long-term work positions for local people have been created with 132,765 CNY yearly average salary for every employee
	Measuring /Reading /Recording frequency	Yearly during the operation period
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes, the measuring and reporting frequency are in line with the Registered Passport /4/.
	Monitoring equipment with accuracy	N/A
	Is the installed monitoring equipment has been duly calibrated for this entire monitoring period? (Yes / No)	N/A
	How were the values in the monitoring report verified?	After checking Salary Payroll of year 2019-2020 issued by the project owner /16/, it is confirmed that 6 long-term work positions for local people have been created with 132,765 CNY yearly average salary for every employee. The same have been confirm via interviewing with employee of the project owner. Also, after checking Qinghai Statistical Yearbook 2021 /27/, it is found the average salary of the project activity is much higher than the salary level of power industry in Qinghai province (92,792 CNY).
	If applicable, has the reported data been cross-checked with other available data? (Yes / No)	N/A
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	N/A
	Relevant Safeguarding Principles:	6.1
	Data/Parameter	Quality of employment
	Unit	N/A
	Description	The project organizes trainings for the staffs on the technology and monitoring of the plant operation, and

		the emergency and safety procedures, etc.
	Value applied for this monitoring period	4 times trainings were provided by the project owner
	Measuring /Reading /Recording frequency	Every monitoring period
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes, the measuring and reporting frequency are in line with the Registered Passport /4/.
	Monitoring equipment with accuracy	N/A
	Is the installed monitoring equipment has been duly calibrated for this entire monitoring period? (Yes / No)	N/A
	How were the values in the monitoring report verified?	By checking all the training records /13/, it is confirmed that the project owner provides sufficient training for the employee on the technology and the monitoring of the plant operation, and the emergency and safety procedures. The trainings were provided on 18/10/2019, 28/01/2020, 03/03/2020 and 25/10/2020 respectively during this monitoring period. The same has been confirmed through interview with employees of the project owner.
	If applicable, has the reported data been cross-checked with other available data? (Yes / No)	N/A
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	N/A
Findings	N.A.	
Conclusion	All the potential negative information on assessment questionnaires answered as "No", thus confirmed that there was no negative impact on safeguarding principles during this monitoring period. So there is no need to re-assessment the Safeguarding principles during this monitoring period.	

E.9. Stakeholder inputs and legal disputes

Means of verification	As confirmed through the onsite visit and interview with the users, it is verified that the inputs/grievances mechanism has been in place /26/. As per the onsite interview with PP and local stakeholders, it is confirmed that the questionnaires /14/ survey has been carried out for collecting the comments from local stakeholders regularly so that they can raise any questions to the project owner. Besides, local people can raise any suggestion about negative impacts of the project operation to monitoring office at any time which has been confirmed by site interview with local stakeholders. Therefore, it is verified that they have access to provide issues or comments through questionnaires. And via checking the questionnaires/16/ conducted in this monitoring period, it is verified that there were no inputs/grievances received during this monitoring period.
Findings	N/A
Conclusion	All the methods of continuous input /grievance mechanism are confirmed during on-site investigation and interviews. CTI verified that there are no comments/complaints received from the stakeholders during this monitoring period of the project activity.

SECTION F. Internal quality control

The final verification report was undergone a technical review by a qualified independent reviewer before requesting issuance of the project activity. The technical review was performed by a technical reviewer qualified in accordance with CTI's qualification scheme for GS validation and verification that meets the criteria of GS4GG guidelines for qualification.

SECTION G. Verification opinion

The verification team assigned by the VVB (CTI) concludes that the 3rd periodic verification of GS programme of activities "Ulan Phase II 10MWp Solar PV Project" in Qinghai Province, P.R.China, as described in the registered GS PDD and final version of monitoring report, meets all relevant requirements set by the GS4GG Principles and Requirements.

The project activity was correctly implemented according to selected monitoring methodology and monitoring plan. The collected monitoring data allowed to verify the amount of achieved SDG impacts. And the project is contributed to sustainability development. Thus, the VVB is pleased to issue a positive verification opinion.

SECTION H. Certification statement

Shenzhen CTI International Certification Co., Ltd (CTI) has performed the 3rd periodic verification of the SDG outcomes that have been reported for the GS project activity "Ulan Phase II 10MWp Solar PV Project" in Qinghai Province, P. R. of China for the monitoring period from 01/01/2017 to 19/12/2020.

The verification is based on the baseline and monitoring methodology AMS I.D. "Grid connected renewable electricity generation" (Version 17.0), the PDD and the final version of monitoring report. The verification consisted of the following three phases: i) desk review of the project design and the baseline and monitoring plan; ii) follow-up on-site visit and interviews with project participants; iii) resolution of outstanding issues and the issuance of the final verification and certification report.

The PPs are responsible for the collection, calculation and determination of the SDG impacts data in accordance with the monitoring plan and the reporting of SDG impacts on the basis set out within the project monitoring report.

It is CTI's responsibility to provide an independent verification statement on the reported SDG impacts for the project. Based on an understanding of the risks associated with reporting of SDG impacts 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 SDG impacts are fairly stated.

CTI confirms that the SDG impacts are calculated without material misstatements. Based on the evidence and information that are considered necessary to guarantee that SDG impacts are appropriately calculated, CTI confirms that the SDG impacts from the "Ulan Phase II 10MWp Solar PV Project" in Qinghai Province, P.R.China during the monitoring period from 01/01/2017 to 19/12/2020 as follows:

Monitoring Period Number: 3rd

Monitoring period: 01/01/2017 to 19/12/2020

The verified amount of impact for each SDG in the PA as per commitment period is stated below;

SDG No.	Total for this MP
	Vintage: 01/01/2017 to 19/12/2020
SDG 8	4 times trainings have been provided for the staffs on the technology and monitoring of the plant operation, and the emergency and safety procedures. 6 long term jobs with annual average salary of 132,765 CNY have been provided.
SDG 7	18,575.823 MWh of renewable energy supplied
SDG 13	GHG emission Reductions 15,917 t GSVERs

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emission
CAR	Corrective Action Request
NWPG	Northwest China Power Grid
CDM	Clean Development Mechanism
CL	Clarification Request
CO ₂	Carbon dioxide
CP	Crediting Period
DNA	Designated National Authority
EB	Executive Board
FAR	Forward Action Request
GHG	Green House Gas
GSC/GSP	Global Stakeholder Consultation Process
GS4GG	Gold Standard for the Global Goals
IPCC	Intergovernmental Panel on Climate Change
KP	Kyoto Protocol
LSC	Local Stakeholder Consultation
MoV	Means of Validation
MP	Monitoring Plan
ODA	Official Development Assistance
PD	Project Developer
PDD	Project Design Document
PE	Project Emission
PP	Project Participant
PS	Project Standard
QC/QA	Quality control/Quality assurance
RFR	Request for Registration
SCR	Stakeholder Consultation Report
SD	Sustainable Development
SDG	Sustainable Development Goals
SFR	Stakeholder Feedback Round
tCO ₂ e	Tonnes of Carbon di oxide equivalent
UNFCCC	United Nations Framework Convention on Climate Change
V	Version
VER	Voluntary Emission Reduction
VVB	Validation and Verification Body
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers

Mr. Wenjun DU

Satisfies the requirements of competence management system of CTI Certification, and is hereby appointed as:

Qualification						
Status	GHG Auditor	Validator	Verifier	Team Leader	Technical Reviewer	Technical Expert
Date	√	√	√	√	-	√

Scope	Technical Area
SS 1: Energy industries (renewable/non-renewable sources)	TA 1.2: Energy generation from renewable energy sources
SS 13: Waste handling and disposal	TA 13.1: Solid waste and wastewater
	TA 13.2: Manure

This appointment is valid for 3 years from its date of approval below and is bound by internal requirements of management system of the Certification Body of CTI.

Approved by: *Wu Lin*
Wu LIN

Technical Competent Manager

Shenzhen, 01/01/2021

Mr. Li Ziqi

Satisfies the requirements of competence management system of CTI Certification, and is hereby appointed as:

Qualification						
Status	GHG Auditor	Validator	Verifier	Team Leader	Technical Reviewer	Technical Expert
Date	√	√	√	√	-	√

Scope	Technical Area
SS 1: Energy industries (renewable/non-renewable sources)	TA 1.2: Energy generation from renewable energy sources
SS 5: Chemical industry	TA 5.1: Chemical industry
	TA 5.2: Caprolactam, nitric and adipic acid
SS 11: Fugitive emissions from production and consumption of halocarbons and sulphur hexafluoride	TA 11.1: Emissions of fluorinated gases
	TA 11.2: Refrigerant gas production
SS 12: Solvents use	TA 12.1: Chemical industry

This appointment is valid for 3 years from its date of approval below and is bound by internal requirements of management system of the Certification Body of CTI.

Approved by:

Wu LIN

Wu Lin

Technical Competent Manager

Shenzhen, 01/01/2021

Appendix 3. Documents reviewed or referenced

No	Author	Title	References to the document	Provider
1.	PP	3 rd periodic Monitoring Report	- version 01 dated 05/06/2022 - Version 02 dated 02/08/2022	PP
2.	PP	3 rd periodic Emission Reduction Calculation spreadsheet	/	PP
3.	PP	Registered GS PDD	Version 03 dated 06/12/2014	PP
4.	PP	Registered GS-Passport	Version 03 dated 06/12/2014	PP
5.	TÜV Rheinland	Gs Validation Report	Version 03.0 dated 12/12/2014, Report No. 01 997 9105077912	GS website
6.	VVB	Previous Verification Report and MR	- FVR: version 01.2 dated 01/03/2017 - MR: version 01 dated 05/01/2017	GS website
7.	Electricity Metering and Verification Center of Qinghai Province	Calibration certificates of M1 and M2	03/12/2016 01/12/2017 28/11/2018 20/11/2019 16/11/2020	Project Owner
8.	Qinghai Provincial Quality and Technical Supervision Bureau	Accreditation of Electricity Metering and Verification Center of Qinghai Province	Qingfaji [2014]0016 Qingfaji [2017]0016 Qingfaji[2020]0016	Project Owner
9.	State Grid Qinghai Electric Power Company	Power Purchase Agreement	January 2009	Project Owner
10.	Qinghai Electric Power Trading Center	Electricity Transaction Notes (ETNs)	The quantity of the grid electricity export and import, covering this monitoring period	Project Owner
11.	Ulan Jinfeng New Energy Photovoltaic Power Generation Co., Ltd.	Meter Reading Records (MRRs)	Meter M1 and M2, covering this monitoring period	Project Owner
12.	Ulan Jinfeng New Energy Photovoltaic Power Generation Co., Ltd.	Operation LOG	- Power plant daily operation log. - Power plant daily dispatch log. - Maintenance plan and records. - Electric equipments operation records. - Duty shift records.	Project Owner
13.	Ulan Jinfeng New Energy Photovoltaic Power Generation Co., Ltd.	Training Records	In relation with operation, maintenance, safety,	Project Owner
14.	Local stakeholders	stakeholder survey questionnaire	stakeholder meeting for SDG monitoring	Project Owner
15.	Ulan Jinfeng New Energy Photovoltaic Power Generation Co., Ltd.	Monitoring Manual	Monitoring Manual for the project activity and project site management rules and regulations	Project Owner
16.	Ulan Jinfeng New Energy Photovoltaic Power Generation Co., Ltd.	Salary Payroll of year 2019-2020	2019 - 2020	Project Owner
17.	Project Owner	Photographs of Project Site	Photographs of Project Site, polycrystalline silicon solar cell	Project Owner

			modules, Central Control Room, DCS System, all the meters and nameplate of the equipments, wastewater treatment facility (septic-tank), domestic solid waste collecting device	
18.	UNFCCC	AMS I.D.	Approved CDM methodology AMS I.D.: "Grid-connected electricity generation from renewable resources" (Version 17.0)	UNFCCC Website
19.	GS	GS4GG MR template	Gold Standard for Global Goals Monitoring Report Template version 1.1 in October 2020	GS Website
20.	GS	Gold Standard for the Global Goals Principles and Requirements	Version 1.2	GS Website
21.	GS	Gold Standard for the Global Goals Safeguarding Principles & Requirements	Version 1.2	GS Website
22.	GS	Gold Standard for the Global Goals Stakeholder Consultation and Engagement Requirements	Version 1.2	GS Website
23.	UNFCCC	UNFCCC website	https://cdm.unfccc.int	UNFCCC website
24.	VERRA	VCS	https://verra.org/project/vcs-program/	VCS website
25.	CCER exchange info-platform	China CCER GHG Scheme	http://cdm.ccchina.org.cn/ccer.aspx	Public Website
26.	Project Owner	Complaints Book	/	Project Owner
27.	China National Statistic Bureau	Qinghai Statistical Yearbook 2021	http://tjj.qinghai.gov.cn/nj/2021/indexch.htm	Project Owner
28.	Ulan Jinfeng New Energy Photovoltaic Power Generation Co., Ltd.	Waste treatment Records	Covering this monitoring period	Project Owner
29.	Ulan Jinfeng New Energy Photovoltaic Power Generation Co., Ltd.	Waste treatment Manual	/	Project Owner
30.	Ulan Jinfeng New Energy Photovoltaic Power Generation Co., Ltd.	Hazardous waste registration form	Covering this monitoring period	Project Owner

Appendix 4. Clarification requests, corrective action requests and forward action requests

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

FAR ID	N/A	Section no.		Date: DD//22/YYYY
Description of FAR				
No FAR from the 2nd verification report and Performance Review Form.				
Project participant response				Date: DD/22/YYYY
N/A				
Documentation provided by project participant				
N/A				
VVB assessment				Date: DD/22/YYYY
N/A				

Table 2. CL from this verification

CL ID	01	Section no.	E.5	Date: 20/07/2022
Description of CL				
In the section A of the monitoring report, the demonstration of no double counting of GS VERs for this monitoring period is not clarified.				
Project participant response				Date: 02/08/2022
The project was only registered under GS program, and the ERs achieved during this monitoring period has not and will not seek issuance under any other GHG program. Section A of the MR version 02 has been updated to report the same.				
Documentation provided by project participant				
MR (Version 02 dated 02/08/2022)				
VVB assessment				Date: 12/08/2022
The VVB has checked for double counting by reviewing all relevant registries including CDM /21/, VCS /22/ and other GHGs programs such as China CCER /35/, EU ETS, IREC or subnational, various regional schemes such as the Canadian and American provincial/state-based schemes. CTI confirmed that there is no potential exists for Double Counting of emissions reductions due to issuance of Gold Standard VERs/CO₂-certificates from the considered project activity. Furthermore, the project activity contained in the MR have been verified through checking verification report of previous monitoring period /6/ and the registered GS PDD /3/. The project equipment's information is also verified during on-site assessment and confirmed as consistent with the GS PDD /3/. Therefore, It is concluded that the double counting of the ER calculation was avoided and the risk of double counting is unlikely to happen. Therefore, CL 01 is closed.				

Table 3. CAR from this verification

CAR ID	01	Section no.	E.3	Date: 20/07/2022
Description of CAR				
By checking MR (version 01 dated 05/06/2022), the monitoring period is from 01/01/2017 to 19/12/2020. By checking FVR of previous monitoring period, it is confirmed that the previous site visit by VVB was conducted on 24/01/2017 - 25/01/2017. CTI conducted a site visit on 19/07/2022 for this monitoring period and therefore, It was identified that the site visit between previous and this monitoring period are longer than three years. As per "APPLICABILITY OF MINIMUM SITE VISIT REQUIREMENTS BY VVB" issued on 16/08/2021, in case follow-up site visits are not conducted within three years after the previous site visit, and when the delays were due to Non-Force Majeure, the VVB shall not verify the monitoring period falling before three years of the site visit date. Therefore, CTI considers the emission reductions from 01/01/2017 to 18/07/2019 of this monitoring period cannot be claimed. Please update MR accordingly.				
Project participant response				Date: 02/08/2022

On 19/07/2022, the VVB performed the site visit audit for this monitoring period and thus only GSVERs achieved during the period from 19/07/2019 to 19/12/2020 will be claimed for this monitoring period. The GSVERs achieved during the period from 01/01/2017 to 18/07/2019 will not be claimed by PP.	
Documentation provided by project participant	
MR (Version 02 dated 02/08/2022)	
VVB assessment	Date: 12/08/2022
Only GS-VERs achieved during the period from 19/07/2019 to 19/12/2020 will be claimed for this monitoring period, i.e. the reporting period is from 19/07/2019 to 19/12/2020, and the emission reductions have been recalculated. Therefore, CAR 01 is closed.	

CAR ID	02	Section no.	E.7.2	Date: 20/07/2022
Description of CAR				
The monthly value of the measured quantities of the grid electricity export and import, as well as the crosscheck process should be listed in section E.2 of the MR.				
Project participant response				Date: 02/08/2022
The monthly values of monitored electricity export and import have been reported in section E.2 of the MR version 02				
Documentation provided by project participant				
MR (Version 02 dated 02/08/2022)				
VVB assessment				Date: 12/08/2022
The monthly value of the measured quantities of the grid electricity export and import, as well as the crosscheck process have been supplemented in section E.2 of the MR and confirmed by CTI to be correct. Therefore, CAR 02 is closed.				

Table 4. FAR from this verification

FAR ID	xx	Section No.		Date: DD/MM/YYYY
Description of FAR				
No FAR from this verification				
Project participant response				Date: DD/MM/YYYY
XX				
Documentation provided by project participant				
XX				
VVB assessment				Date: DD/MM/YYYY
XX				