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Climate Security & Sustainable Development

TEMPLATE

MONITORING REPORT

PUBLICATION DATE 14.10.2020

VERSION v. 1.1

RELATED SUPPORT - TEMPLATE GUIDE Monitoring Report v. 1.1

This document contains the following Sections

Key Project Information

SECTION A - Description of project

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SECTION D - Data and parameters

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SECTION F - Safeguards Reporting

SECTION G - Stakeholder inputs and legal disputes

KEY PROJECT INFORMATION

GS ID (s) of Project (s)	2679
Title of the project (s) covered by monitoring report	Ulan Phase II 10MWp Solar PV Project
Version number of the PDD/VPA-DD (s) applicable to this monitoring report	03
Version number of the monitoring report	02
Completion date of the monitoring report	02/08/2022
Date of project design certification	05/12/2014
Date of Last Annual Report	Not applicable
Monitoring period number	3 rd
Duration of this monitoring period	01/01/2017 to 19/12/2020 (both days inclusive)
Project Representative	Climate Bridge (Shanghai) Ltd.
Host Country	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

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Table 1 - Sustainable Development Contributions Achieved

Sustainable Development Goals Targeted	SDG Impact	Amount Achieved	Units / Products
13 Climate Action	Emissions Reductions	15,917	tCO ₂ e
7 Affordable and Clean Energy	MWh of renewable energy generated	18,575.823	MWh
8 Decent Work and Economic Growth	Number of jobs created	6	/
	Number of trainings	4	/
	Average salary	132,765	CNY/year

Table 2 – Product Vintages

		Amount Achieved
Start Dates	End Dates	GS VERs
01/01/2017	18/07/2019	0 ¹
19/07/2019	31/12/2019	4,937
01/01/2020	19/12/2020	10,980

¹ As per the requirements of GS 2.2 Chapter 4, the duration of the monitoring period cannot be more than three years from the date of site visit/remote audit by a VVB is performed. 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.

SECTION A. DESCRIPTION OF PROJECT

A.1. General description of project

Ulan Phase II 10MWp Solar PV Project (thereafter referred to the Project) is a newly built new solar PV power plant located in Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China. The project is developed by Ulan Jinfeng New Energy Photovoltaic Power Generation Co., Ltd. The purpose of the Project is to utilize the solar energy at the project site for electricity generation. The actual installed capacity of the Project is 10.36MWp. A total of 41,440 pieces of 250Wp polycrystalline silicon solar cell modules have been installed. The electricity generated by the Project is supplied to Northwest China Power Grid (NWPG). The estimated feed-in electricity by the Project is 16,103.7MWh per year.

The scenario existing prior to the implementation of the project is that the quantity of net electricity generation by the Project would be generated by other grid-connected power plant or provided by newly added power sources in the NWPG. The baseline scenario is the same as the scenario existing prior to the start of implementation of the project activity.

The Project started construction on 18/07/2013 and started operation on 20/12/2013. The continued operation periods are expected to be 25 years. The project was registered as a GS project on 05/12/2014 with GS ID of 2679. The project was registered as a retroactive GS project. As per the GS rules, pre-registration credits can be claimed for two years prior to the GS registration. Therefore, the start date of the GS crediting period is the same as the operation start date, 20/12/2013.

This is the 3rd monitoring period of the project, covering the period from 01/01/2017 to 19/12/2020. However as per the requirements of GS2.2 Chapter 4, the duration of the monitoring period cannot be more than three years from the date of site visit/remote audit by a VVB is performed. 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.

Therefore, to ensure the continuity of monitoring period, this monitoring report covers all the remaining period (01/01/2017-19/12/2020) of the 1st crediting period, while only the emission reductions and SDG contributions achieved during the reporting period of

19/07/2019-19/12/2020 is claimed by the PP. The actual total emission reductions claimed by the PP in this monitoring period are 15,917 tCO₂e.

For the convenience of the report preparation and easier understanding, this report consistently uses the following terminology for description of monitoring period and the period during which GSVERs are to be claimed.

The monitoring period: refer to the period from 01/01/2017 to 19/12/2020, which covers all the remaining period of 1st crediting period.

The reporting period: refer to the period from 19/07/2019 to 19/12/2020 during which the GSVERs are claimed by the PP.

Only the emission reductions and SDG contributions achieved during the reporting period is reported in this monitoring report.

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.

The project contributes to sustainable development through the reduction of the emission of greenhouse gas and other pollutants resulting from the power generation industry in China. It also contributes to stimulate the growth of the solar photovoltaic power industry, promoting the progress of technology advancement and commercial popularization of grid-connected clean renewable energy generation in China, providing long-term working opportunities during the operation of the project.

A.2. Location of project

The Project is located in Keke Town, Ulan County, Haixi Mongol and Tibetan Autonomous Prefecture, Qinghai Province, P. R. of China, with central geographical coordinates of east longitude of 98°23'09'' and north latitude of 36°59'11''.

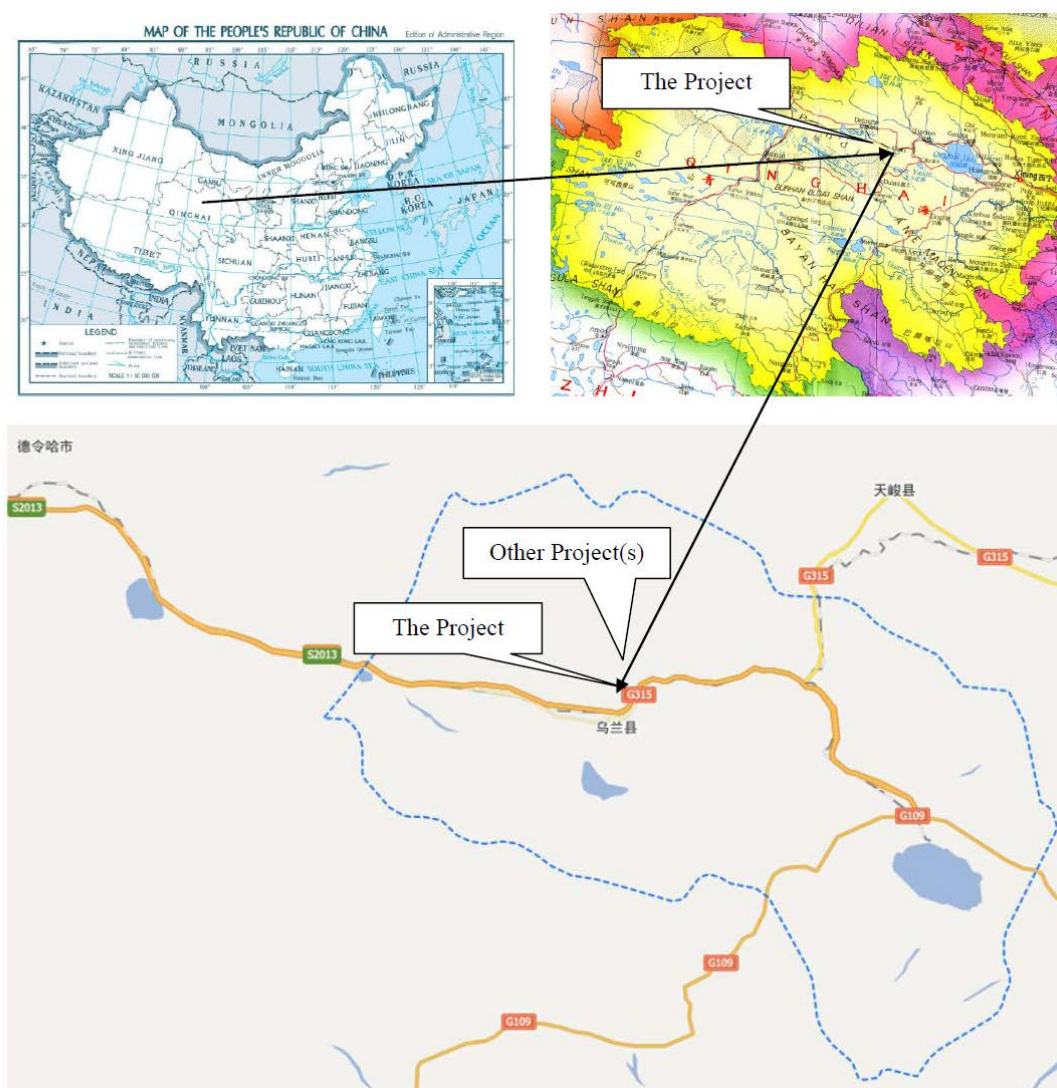


Figure 1 Location of the project

A.3. Reference of applied methodology

(a) The applied methodology

AMS-I.D. Grid connected renewable electricity generation (Version 17.0).

(b) Tools to which the applied methodology refers

Tool to calculate the emission factor for an electricity system (Version 04.0)

For more information, please visit:

<http://cdm.unfccc.int/methodologies/SSCmethodologies/approved>

A.4. Crediting period of project

Renewable crediting period of 7×3 years is chosen for the Project. The first crediting period of the project activity is from 20/12/2013 to 19/12/2020. This is the 3rd monitoring period in the 1st crediting period.

SECTION B. IMPLEMENTATION OF PROJECT

B.1. Description of implemented project

The project started operation on 20/12/2013. This project consists of one site only and the implementation is not phased. The project has been implemented in accordance with the registered PDD and monitoring plan during this monitoring period. The Project has been operated without any accidental or emergency events that might impact the GHG emission reductions and monitoring.

The total installed capacity of the project is 10.36MWp, consisting of 41,440 pieces of the polycrystalline silicon solar PV cell modules with unit capacity of 250Wp. The electricity generation supplied by the Project is sent through the 35kV line to the 110kV substation at the project site, and then delivered to the NWPG. The main technical parameters of the key equipment of the Project are illustrated in Table 1.

Table 1. Major technical parameters of key equipment

	Item	Unit	Value
Solar cell module	Type	-	JKM250P-60
	Quantity	-	41,440
	Rated Max. Power	Wp	250
	Optimum Voltage	V	30.4
	Optimum Current	A	8.23
	Open Circuit voltage	V	37.6
	Short Circuit current	A	8.81
	Lifetime	year	25
	Manufacturer	-	Jinko Solar Co., Ltd.
Inverter	Type	-	DS 500 KTL
	Quantity	-	20
	Max. Output power	kW	500
	Rated frequency	HZ	50/60
	Manufacturer		Anhui Duraluxe Energy Co., Ltd.

The technical process of the Project is illustrated in Figure 2 below.

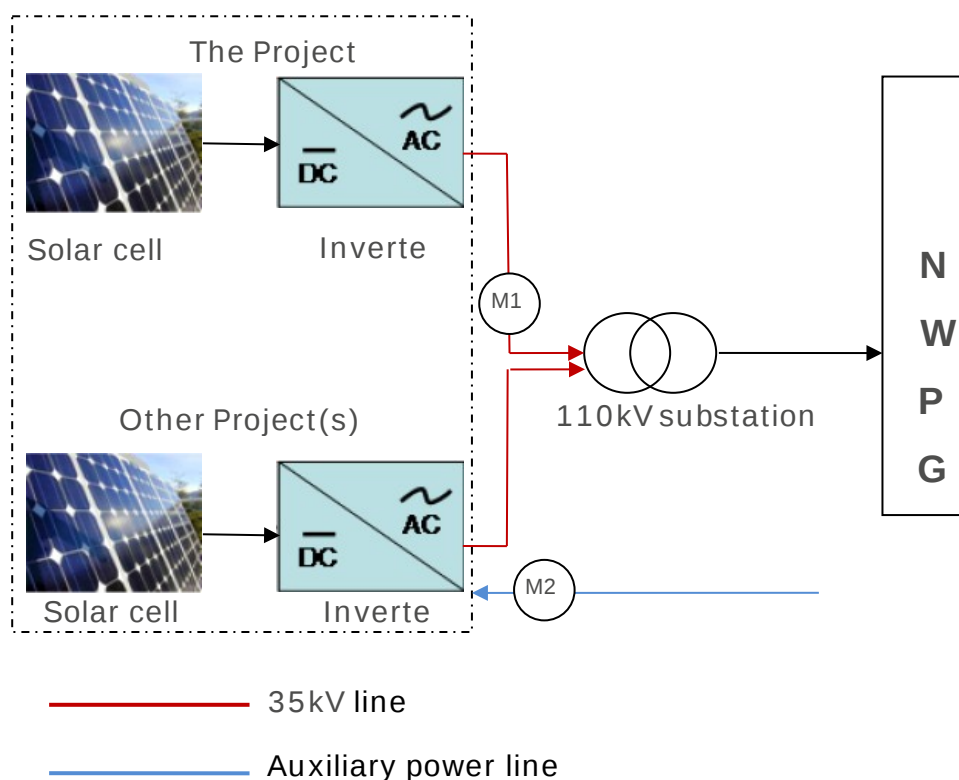


Figure 2 Technical process of the project

B.1.1 Forward Action Requests

Not applicable.

B.2. Post-Design Certification changes

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B.2.1. Temporary deviations from the approved Monitoring & Reporting Plan, methodology or standardized baseline

No temporary deviation from registered monitoring plan or applied methodology during this monitoring period.

B.2.2. Corrections

No corrections during this monitoring period.

B.2.3. Changes to start date of crediting period

No changes to the start date of crediting period.

B.2.4. Permanent changes from the Design Certified monitoring plan, applied methodology or applied standardized baseline

No permanent changes from the Design Certified monitoring plan, applied methodology or applied standardized baseline during this monitoring period.

B.2.5. Changes to project design of approved project

No changes to project design of approved project during this monitoring period.

SECTION C. DESCRIPTION OF MONITORING SYSTEM APPLIED BY THE PROJECT

1. Organizational structure

The monitoring of the emission reductions is carried out according to the scheme shown in Figure 3 below.

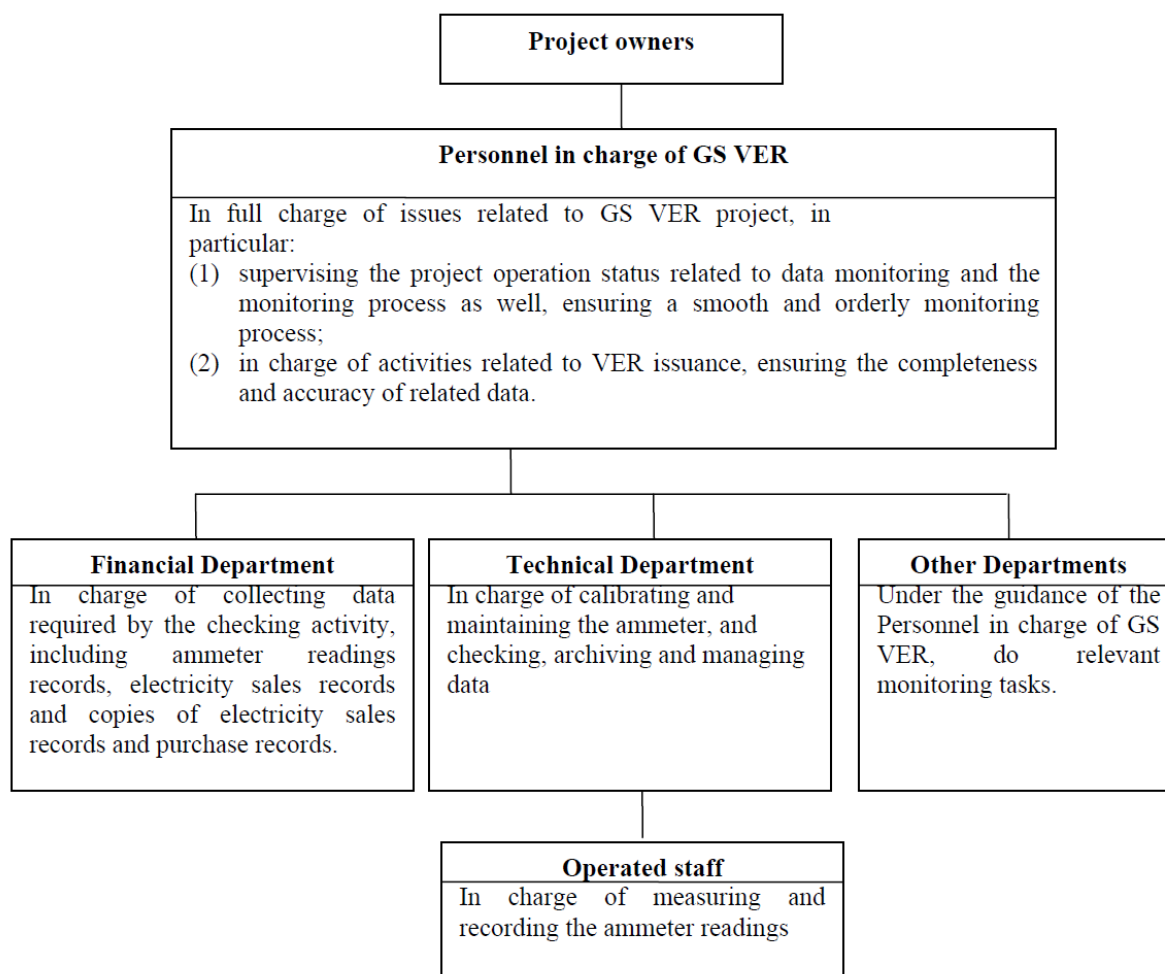


Figure 3 Organizational structure of the monitoring

2. Monitoring Measures

The quantity of net electricity generation supplied to the grid is measured by the electricity meter M1 installed at the 35 kV line of the Project and electricity meter M2 installed at the auxiliary power line. Please refer to Figure 4 below for the monitoring system of the project.

Bi-directional electricity meter M1 with accuracy of 0.2S has been installed at the 35 kV line of the Project to monitor the quantity of the grid electricity export and import of

the Project through 35 kV line. Electricity meter M2 with accuracy of 0.5S has been installed at the auxiliary power line the total quantity of the grid electricity import of the Project and Other Project(s) through auxiliary power line.

The electric energy metering system was installed according to the requirements of the Technical Administrative Code of Electric Energy Metering (DL/T448).

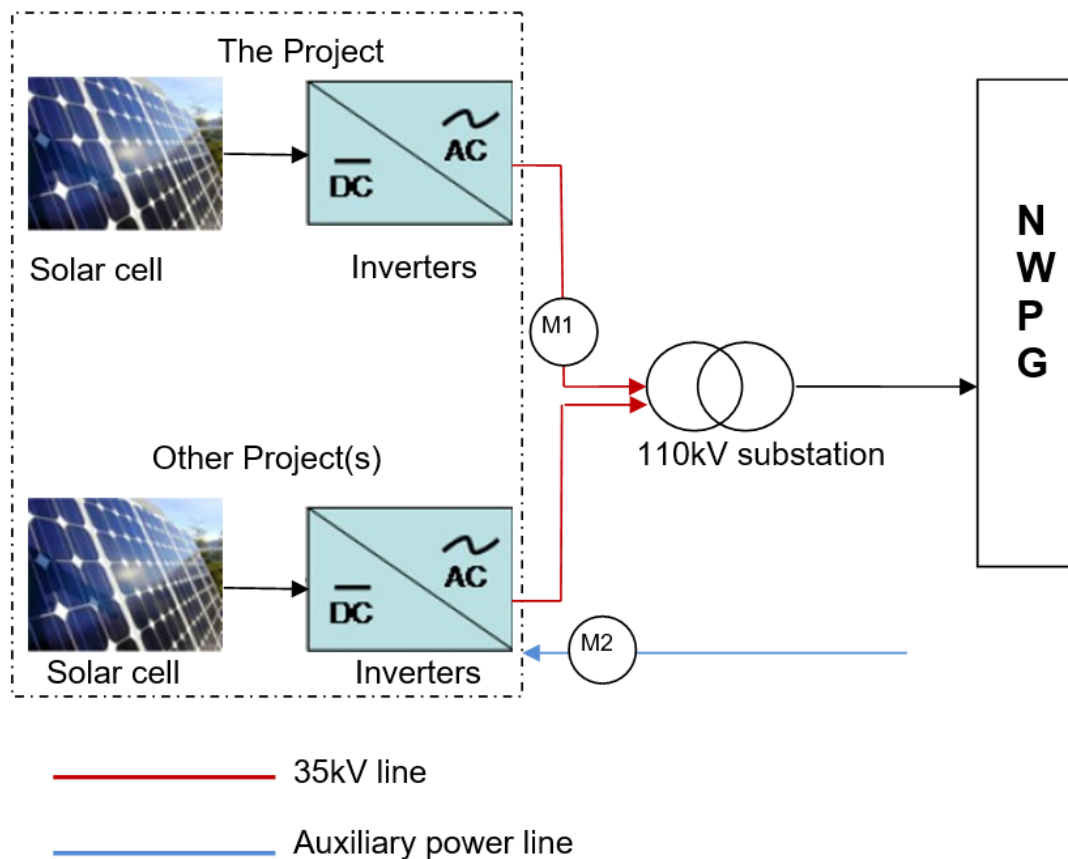


Figure 4 Monitoring system of the project

3. Calibration of electricity meters

The periodic calibration of electricity meters has been implemented as per the requirements of the Technical Administrative Code of Electric Energy Metering (DL/T448) to ensure accuracy. Both electricity meters have been calibrated annually as per the registered monitoring plan.

4. Quality control and Emergency procedures

For Meter M1:

The records of electricity sales and purchase are used to cross-check the readings of the meter M1 as long as the error in the meter M1 is within the permissible limits.

However, when the meter has the malfunction or the breakdown, the net electricity supplied to the grid will be determined according to the stipulation of the PPA, the emission reductions during this period will be considered as 0.

For Meter M2:

If Meter M2 is functioned improperly or out of order, the imported electricity will be estimated by assuming that equipment consuming the imported electricity operated at maximum capacity for the full period of the missing data, and the estimate shall include an additional 10% to account for transmission and distribution losses.

No emergency occurred during this monitoring period.

5. Data Management System

Specific staff has been appointed by the project owner to take on the overall responsibility for monitoring greenhouse gas emission reductions and keeping all the data collected as part of monitoring. Data shall be kept and archived electronically for two years after the end of the last crediting period or the last issuance of VERs, whichever occurs later.

SECTION D. DATA AND PARAMETERS

D.1. Data and parameters fixed ex ante or at renewal of crediting period

SDG13 Climate Action

The baseline grid emission factor $EF_{grid,CM,y}$ is calculated and fixed ex ante based on the relevant basis parameters in registered PDD which are not described in detail here.

Data / parameter:	$EF_{grid,CM,y}$
Unit	tCO ₂ e/MWh
Description	Combined Margin CO ₂ emission factor in year y
Source of data	Registered PDD (page 15)
Value(s) applied)	0.856875
Choice of data or measurement methods and procedures	2013 baseline emission factors for regional power grids in China, issued by China DNA

Purpose of data	Calculation of baseline scenario
Additional comments	Calculated ex ante and fixed for the first crediting period

D.2 Data and parameters monitored

SDG 13

Data / Parameter	ER_y								
Unit	tCO ₂ /yr								
Description	Emission reduction in year y								
Source of data	Calculated								
Value(s) applied	<table border="1"> <thead> <tr> <th>Period</th><th>Value</th></tr> </thead> <tbody> <tr> <td>01/01/2017~18/07/2019</td><td>0 (Not claimed)</td></tr> <tr> <td>19/07/2019~31/12/2019</td><td>4,937</td></tr> <tr> <td>01/01/2020~19/12/2020</td><td>10,980</td></tr> </tbody> </table>	Period	Value	01/01/2017~18/07/2019	0 (Not claimed)	19/07/2019~31/12/2019	4,937	01/01/2020~19/12/2020	10,980
Period	Value								
01/01/2017~18/07/2019	0 (Not claimed)								
19/07/2019~31/12/2019	4,937								
01/01/2020~19/12/2020	10,980								
Measurement methods and procedures	The ex-post emission reduction is calculated according to equation (4) and equation (14) of the registered PDD.								
Monitoring frequency	Each verification								
QA/QC procedures	/								
Purpose of data	SDG13								
Additional comment	/								

SDG7

Data / Parameter	EG_{facility,y}
Unit	MWh
Description	Quantity of net electricity generation supplied to the grid in year y. The net electricity generation supplied to the grid is the difference between the measured quantities of the grid electricity export and import.
Source of data	Meter reading records& Electricity Transaction Notes (ETN)

Value(s) applied	<table><tr><td>Period</td><td>Value</td></tr><tr><td>01/01/2017~18/07/2019</td><td>0 (Not claimed)</td></tr><tr><td>19/07/2019~31/12/2019</td><td>5,761.718</td></tr><tr><td>01/01/2020~19/12/2020</td><td>12,814.105</td></tr></table>		Period	Value	01/01/2017~18/07/2019	0 (Not claimed)	19/07/2019~31/12/2019	5,761.718	01/01/2020~19/12/2020	12,814.105																										
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	19/07/2019~31/12/2019	5,761.718																																		
	01/01/2020~19/12/2020	12,814.105																																		
Measurement methods and procedures	Directly measured by electricity meters M1 at the 35kV line of the Project and electricity meter M2 at the auxiliary power line. The monthly settlement time of electricity export/import is 24:00 on the last day of the month. ETNs are issued by the grid company based on the meter readings of meter M1 and M2.																																			
	<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">Latest 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	Latest 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																																	
	Latest 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																																		
The following parameters have been monitored:																																				
(i) The quantity of the grid electricity export (measured by M1); and																																				
(ii) The quantity of the grid electricity import (measured by M1 and M2 ²).																																				

² The meters M2 recorded 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 was deducted for calculating the net electricity generation supplied to grid by the Project.

	The project owner is responsible for the monitoring activities.
Monitoring frequency	Continuous measurement and at least monthly recording
QA/QC procedures	Cross check measurement results with records for sold and purchased electricity. The electricity meters are calibrated annually.
Purpose of data	Calculation of baseline emissions, SDG 7
Additional comment	/

SDG 8 and safeguarding principle 6.1

Data / Parameter	Quality of employment
Unit	/
Description	The project organizes trainings for the staffs on the technology and monitoring of the plant operation, and the emergency and safety procedures, etc.
Source of data	Training records 2019-2020.pdf
Value(s) applied	4
Measurement methods and procedures	The training records
Monitoring frequency	Each monitoring period
QA/QC procedures	The proportion of data to be monitored is 100% and the data will be archived and kept at least for two years after the end of the crediting period.
Purpose of data	SDG8, safeguarding principle 6.1
Additional comment	/

Data / Parameter	Quantitative employment and income generation
Unit	Persons, CNY/year

Description	Number of jobs provided in the operations of the project and their salary levels
Source of data	Payroll of project staffs 2019-2020.pdf
Value(s) applied	Number of jobs provided: 6 Annual average salary: 132,765 CNY
Measurement methods and procedures	HR records
Monitoring frequency	Each monitoring period
QA/QC procedures	The proportion of data to be monitored is 100% and the data will be archived and kept at least for two years after the end of the crediting period.
Purpose of data	SDG8, Safeguarding principle 6.1
Additional comment	/

Safeguarding principle 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.
Source of data	Waste treatment records.pdf
Value(s) applied	N/A
Measurement methods and procedures	Check the wastewater treatment facility and interview with the local residents
Monitoring frequency	Each verification
QA/QC procedures	The proportion of data to be monitored is 100% and the data will be archived and kept at least for two years after the end of the crediting period.

Purpose of data	Safeguarding principle 9
Additional comment	/

Data / Parameter	Air quality
Unit	tSO ₂ , tNO _x
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
Source of data	Measured by electricity meter
Value(s) applied	SO ₂ emission reduction: 2.3g/KWh*18,575.823 MWh=42.724t NO ₂ emission reduction: 2.6g/KWh*18,575.823 MWh=48.297t
Measurement methods and procedures	Directly measured by electricity meters and crosschecked with sales records. Currently, there is no available public data on average atmospheric pollutant emissions per kWh of electricity associated with the fossil fuel-based grid electricity in NWPG. Therefore, the average data for the whole China is used. The SO ₂ emission factor is 2.3g/kWh for sulphur fossil fuel-based power plants. The NO _x emission factor is 2.6 g/kWh for fossil fuel-based power plants
Monitoring frequency	The electricity is continuously measured and at least monthly recorded
QA/QC procedures	Cross check measurement results with records for sold electricity. The electricity meters have been calibrated annually.
Purpose of data	Safeguarding principle 9
Additional comment	/

Data / Parameter	Other pollutants
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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
Source of data	Monitored by the project owner Waste treatment records.pdf
Value(s) applied	N/A
Measurement methods and procedures	Check the domestic solid waste collecting device, the wasted equipment collecting place and interview with local residents
Monitoring frequency	Each verification
QA/QC procedures	The proportion of data to be monitored is 100% and the data will be archived and kept at least for two years after the end of the crediting period.
Purpose of data	Safeguarding principle 9
Additional comment	/

D.3. Comparison of monitored parameters with last monitoring period

Data / Parameter	Value obtained in this monitoring period	Value obtained last monitoring period
Not applicable for non-Community Service Activities.		

D.4. Implementation of sampling plan

Not applicable.

SECTION E. CALCULATION OF SDG IMPACTS

E.1. Calculation of baseline value or estimation of baseline scenario of each SDG Impact

SDGs	Baseline value
SDG 7 Affordable and Clean Energy	In baseline scenario, electricity supplied by the project would be generated by fossil-fuel based power plants of NWPG in absence of the project. The SDG 7 (Affordable and clean energy: Ensure access to affordable, reliable, sustainable and modern energy for all) cannot be achieved in baseline scenario. Therefore, baseline impact benefit of SDG 7 is zero.
SDG 8 Decent Work and Economic Growth	In baseline scenario, in absence of the project, there is no comparative job opportunities providing decent salaries to improve living conditions. And there is no technical training for local people to upgrade their skills. The SDG 8 (Decent work and economic growth: Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all) cannot be achieved in baseline scenario. Therefore, baseline impact benefit of SDG 8 is zero.
SDG 13 Climate Action	In baseline scenario, there is no operation of renewable power generation at the project site. All the electricity supplied by the project would be supplied by NWPG as usual, and no GHG emission reduction would be achieved, therefore baseline impact benefit of SDG 13 is zero.

E.2. Calculation of project value or estimation of project situation of each SDG Impact

SDGs	Project value
SDG 7 Affordable and Clean Energy	During the reporting period of 19/07/2019-19/12/2020 in this monitoring period, the net renewable electricity supplied by the project to the grid is 18,575.823 MWh, which could replace the equivalent electricity from fossil fuel-based grid. Therefore, project value of SDG 7 is 18,575.823 MWh of renewable electricity supplied to the power grid. Please refer to the ER spreadsheet for details.
SDG 8 Decent Work and Economic Growth	During the reporting period of 19/07/2019-19/12/2020 in this monitoring period, the project provided 6 permanent and skilled jobs and carried out 4 technical trainings for all staffs.

	The average annual salary of the project staffs is 132,765 CNY in this monitoring period, which is much higher than the average salary level (92,792 CNY) of power industry in Qinghai Province as indicated in Qinghai Statistical Yearbook 2021 (http://tjj.qinghai.gov.cn/nj/2021/indexch.htm). Therefore, project values of SDG 8 are as follows: 6 permanent and skilled jobs; 4 technical trainings for all staffs; 132,765 CNY, average annual salary of the project staffs. Please refer to the ER spreadsheet for details.
SDG 13 Climate Action	According to the registered PDD, project value of SDG 13 is calculated as follows:

Project Emissions

As per AMS-I.D. (version 17.0), the project emission is zero ($PE_y = 0 \text{ tCO}_2\text{e}$).

Leakage

As per AMS-I.D. (version 17.0), leakage is not considered ($LE_y = 0 \text{ tCO}_2\text{e}$).

Baseline Emissions

As per AMS-I.D. (version 17.0), baseline emissions (BE_y) include only CO_2 emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity, which is calculated as follows:

$$BE_y = EG_{BL,y} * EF_{\text{CO}_2,\text{grid},y} = EG_{\text{facility},y} * EF_{\text{grid},\text{CM},y}$$

Where:

BE_y = Baseline emissions in year y (tCO_2/yr)

$EG_{\text{facility},y}$ = Quantity of net electricity generation supplied to the grid in year y. (MWh/yr)

$EF_{\text{grid},\text{CM},y}$ = Combined margin CO_2 emission factor for the project electricity system in year y (tCO_2/MWh)

Emission Reductions

$$ER_y = BE_y - PE_y - LE_y = BE_y = EG_{\text{facility},y} * EF_{\text{grid},\text{CM},y}$$

The project value of SDG 13 is calculated as follows:

Period	$EG_{\text{facility},y}$ (Mwh)	$EF_{\text{grid},\text{CM},y}$ ($\text{tCO}_2\text{e}/\text{MWh}$)	BE_y (tCO_2e)	ER_y (tCO_2e)
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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 monthly values of monitored $EG_{\text{facility},y}$ are as follows:

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Monitoring Period		The quantity of the grid electricity export (MWh)			The quantity of the grid electricity import (MWh)						EG _{facility,y} (MWh)
		Meter Reading Records from M1	ETNs	Verified data	Meter Reading Records from M1	ETNs	Verified data	Meter Reading Records from M2	ETNs	Verified data	
		A	B	C=MIN(A,B)	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	0	0	0*
19/07/2019	31/07/2019	562.660	562.660	562.660	1.960	1.960	1.960	0.709	0.709	0.709	559.991
01/08/2019	31/08/2019	1,236.530	1,236.530	1,236.530	4.970	4.970	4.970	0.760	0.760	0.760	1,230.800
01/09/2019	30/09/2019	954.500	954.500	954.500	3.990	3.990	3.990	7.930	7.930	7.930	942.580
01/10/2019	31/10/2019	1,058.520	1,058.520	1,058.520	5.950	5.950	5.950	1.565	1.565	1.565	1,051.005
01/11/2019	30/11/2019	1,027.713	1,027.713	1,027.713	6.230	6.230	6.230	0.728	0.728	0.728	1,020.755
01/12/2019	31/12/2019	963.167	963.167	963.167	6.580	6.580	6.580	0.000	0.000	0.000	956.587
2019 SUM		5,803.090	5,803.090	5,803.090	29.680	29.680	29.680	11.692	11.692	11.692	5,761.718
01/01/2020	31/01/2020	1,192.710	1,192.710	1,192.710	6.300	6.300	6.300	1.569	1.569	1.569	1,184.841
01/02/2020	29/02/2020	1,123.130	1,123.130	1,123.130	5.460	5.460	5.460	0.873	0.873	0.873	1,116.797
01/03/2020	31/03/2020	1,195.210	1,195.210	1,195.210	5.390	5.390	5.390	0.756	0.756	0.756	1,189.064
01/04/2020	30/04/2020	1,245.110	1,245.110	1,245.110	4.760	4.760	4.760	0.748	0.748	0.748	1,239.602
01/05/2020	31/05/2020	1,060.870	1,060.870	1,060.870	4.830	4.830	4.830	0.769	0.769	0.769	1,055.271
01/06/2020	30/06/2020	1,024.940	1,024.940	1,024.940	4.550	4.550	4.550	0.740	0.740	0.740	1,019.650
01/07/2020	31/07/2020	1,033.280	1,033.280	1,033.280	4.760	4.760	4.760	0.517	0.517	0.517	1,028.003
01/08/2020	31/08/2020	1,130.970	1,130.970	1,130.970	5.110	5.110	5.110	0.758	0.758	0.758	1,125.102
01/09/2020	30/09/2020	1,289.710	1,289.710	1,289.710	5.250	5.250	5.250	6.238	6.238	6.238	1,278.222
01/10/2020	31/10/2020	1,102.260	1,102.260	1,102.260	5.880	5.880	5.880	9.703	9.703	9.703	1,086.677
01/11/2020	30/11/2020	806.480	806.480	806.480	5.950	5.950	5.950	11.664	11.664	11.664	788.866

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01/12/2020	19/12/2020	718.920	718.920	718.920	4.200	4.200	4.200	12.710	12.710	12.710	702.010
2020 sum		12,923.590	12,923.590	12,923.590	62.440	62.440	62.440	47.045	47.045	47.045	12,814.105
Total		18,726.680	18,726.680	18,726.680	92.120	92.120	92.120	58.737	58.737	58.737	18,575.823

*Note: Emission reductions during the period from 01/01/2017 to 18/07/2019 are not claimed by the PP, therefore the monitored values of electricity export/import are counted as 0 here.

TEMPLATE
E.3. Calculation of leakage

SDG13

As per applied methodology AMS-I.D. (Version 17.0), leakage is not considered.

E.4. Calculation of net benefits or direct calculation for each SDG Impact

SDG	SDG Impact	Baseline estimate	Project estimate	Net benefit
13	GHG Emission Reductions	0	15,917	15,917
7	MWh of renewable energy supplied	0	18,575.823	18,575.823
	Number of permanent and skilled jobs	0	6	6
8	Number of trainings	0	4	4
	Average annual salary level of project staffs	0	132,765	132,765

E.5. Comparison of actual SDG Impacts with estimates in approved PDD

SDG	Values estimated in ex ante calculation of approved PDD for this monitoring period	Actual values achieved during this monitoring period
13	19,657 tCO ₂ e	15,917 tCO ₂ e
7	22,942 MWh	18,575.823 MWh
	6 job opportunities	6 job opportunities
8	Trainings will be provided for project staffs, however number of trainings was not 4 trainings specified in the registered PDD and passport	
	Annual salary > 92,792 CNY	132,765 CNY

E.5.1. Explanation of calculation of value estimated ex ante calculation of approved PDD for this monitoring period

The comparison of actual SDG Impacts with estimates in approved PDD will be conducted **only for the reporting period** since only ERs and SDG contribution achieved during the reporting period is claimed by the PP.

For SDG 13 and SDG 7

The reporting period of 19/07/2019-19/12/2020 in this monitoring period covers 520 days. As per registered PDD, the project is expected to supply 16,103.7 MWh renewable energy to the power grid and achieve 13,798 tCO₂e GHG emission reductions annually, thus the estimated value for SDG 7 for this reporting period is 22,942 MWh ($=16,103.7 \text{ MWh} \times 520 \text{ days}/365\text{days}$), the estimated value for SDG 13 for this reporting period is 19,657 tCO₂e ($=13,798 \text{ tCO}_2\text{e} \times 520 \text{ days}/365\text{days}$).

For SDG 8

The project is expected to provide 6 permanent and skilled jobs , and will provide technical trainings for project staffs, however the number of trainings was not specified in the registered PDD and GS Passport. Furthermore, the average annual salary of project staffs is expected to be higher than the average annual salary of power industry in Qinghai Province. As per Qinghai Statistical Yearbook 2021, the average annual salary of power industry in Qinghai Province is 92,792 CNY. Therefore, the estimated value for SDG 8 for this reporting period is 6 jobs opportunities with technical trainings provided and an average annual salary of higher than 92,792 CNY.

E.6. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD

The comparison of actual SDG Impacts with estimates in approved PDD will be conducted only for the reporting period since only ERs and SDG contribution achieved during the reporting period is claimed by the PP.

For SDG 8

During the reporting period of 19/07/2019-19/12/2020 in this monitoring period, the project provided 6 job positions for local people, and relevant staff received 4 trainings for improving their skills and security awareness, and the average salary level of employees is 132,765 CNY, much higher than the average annual salary of power industry in Qinghai Province. The project has achieved higher contributions to SDG 8 than expected.

For SDG 13 and SDG 7

The emission reductions and the total net electricity supplied to the grid during this reporting period are 19.03% lower than the estimation, which is due to solar energy fluctuation over the years and is deemed reasonable.

SECTION F. SAFEGUARDS REPORTING

Safeguarding principles that were added to the monitoring plan have been summarized as follows:

Principles	Mitigation Measures added to the Monitoring Plan
Principle 9.4	Refer to Section D.2 Air Quality
	Refer to Section D.2 Water quality and quantity
	Refer to Section D.2 Other pollutants
Principle 6.1	Refer to Section D.2 Quantitative employment and income generation
	Refer to Section D.2 Quality of employment

SECTION G. STAKEHOLDER INPUTS AND LEGAL DISPUTES

G.1. List all Inputs and Grievances which have been received via the Continuous Input and Grievance Mechanism together with their respective responses / mitigations.

Continuous Input and Grievance Mechanism has been established and implemented by the PP. In this monitoring period, **NO** inputs or grievances were received via Continuous Input and Grievance Mechanism.

The Continuous Input and Grievance Mechanism of the project is as follows:

Method	Include all details of Chosen Method (s) so that they may be understood and, where relevant, used by readers.
Continuous Input / Grievance Expression Process Book (mandatory)	Grievance expression book in local villages, kept by the leader of the villages, detailed as follows: Xishagou Village, Mr. Long Gang
GS Contact (mandatory)	help@goldstandard.org
Other	Telephone access +86-15343615822 (for project owner, plant chief)

+86-10-5868-9628 (for project owner, headquarter)

+86 158 1052 7065 (for GS expert)

Local stakeholders can call the working staff of the project owner and GS expert to express their comments, suggestion and complaint.

Internet/email access

wang_hongye@ctgpc.com.cn (for project owner, headquarter)

annyta.luo@sustain-cert.com (for GS expert)

Local stakeholders can send email to the project owner and GS expert to express their comments, suggestion and complaint.

G.2. Report on any stakeholder mitigations that were agreed to be monitored.

The project did not receive any inputs/grievances from previous monitoring period. Thus, there is no stakeholder mitigations that were agreed to be monitored in this monitoring period.

G.3. Provide details of any legal contest that has arisen with the project during the monitoring period

There was no legal contest or dispute during this monitoring period.

Revision History

Version	Date	Remarks
1.1	14 October 2020	Hyperlinked section summary to enable quick access to key sections Improved clarity on Key Project Information Section for POA monitoring Forward action request section Improved Clarity on SDG contribution/SDG Impact term used throughout Clarity on safeguard reporting Clarity on design changes Leakage section added for VER/CER projects Addition of Comparison of monitored parameters with last monitoring period Provision of an accompanying Guide to help the user understand detailed rules and requirements
1.0	10 July 2017	Initial adoption