



Gold Standard[®]
for the Global Goals

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

SECTION B - Implementation of project

SECTION C - Description of monitoring system applied by the project

SECTION D - Data and parameters

SECTION E - Calculation of SDG Impacts

SECTION F - Safeguards Reporting

SECTION G - Stakeholder inputs and legal disputes

KEY PROJECT INFORMATION

GS ID (s) of Project (s)	2680
Title of the project (s) covered by monitoring report	Dongdongtan 9MWp Solar PV Project
Version number of the PDD/VPA-DD (s) applicable to this monitoring report	05
Version number of the monitoring report	2.1
Completion date of the monitoring report	10/11/2022
Date of project design certification	28/04/2014
Date of Last Annual Report	Not applicable
Monitoring period number	2 nd
Duration of this monitoring period	21/07/2019 to 07/12/2020 (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



TEMPLATE

Table 1 - Sustainable Development Contributions Achieved

Sustainable Development Goals Targeted	SDG Impact	Amount Achieved	Units / Products
13 Climate Action	Emissions Reductions	15,004	tCO ₂ e
7 Affordable and Clean Energy	MWh of renewable energy generated	17,511.930	MWh
8 Decent Work and Economic Growth	Number of jobs created	8	-
	Number of trainings	6	-
	Average salary	144,751	CNY/year

Table 2 – Product Vintages

		Amount Achieved
Start Dates	End Dates	GS VERs
21/07/2019	31/12/2019	4,105
01/01/2020	07/12/2020	10,899

SECTION A. DESCRIPTION OF PROJECT

A.1. General description of project

Dongdongtan 9MWp Solar PV Project (thereafter referred to the Project) is a newly built new solar PV power plant located in Dongdongtan Area, Suzhou District, Jiuquan City, Gansu Province, P. R. of China. The project is developed by Three Gorges New Energy Jiuquan 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 9.009MWp. A total of 36,036 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 14,440 MWh 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 01/09/2013 and started operation on 08/12/2013. The continued operation periods are expected to be 25 years. The project was registered as a GS project on 28/04/2014 with GS ID of 2680. 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, 08/12/2013.

This is the 2nd monitoring period of the project, which is originally planned to cover the period from 01/04/2015 to 07/12/2020. 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 21/07/2022, the VVB performed the site visit audit for this monitoring period and thus only GSVERs achieved during the period from 21/07/2019 to 07/12/2020 will be claimed for this monitoring period. Therefore, this 2nd monitoring period is from 21/07/2019 to 07/12/2020. The deviation request in this regard submitted on 06/06/2022 has been reviewed and concluded for the same by GS on 27/06/2022. The actual total emission reductions claimed by the PP in this monitoring period are 15,004 tCO₂e.

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 Dongdongtan Area, Suzhou District, Jiuquan City, Gansu Province, P. R. of China, with central geographical coordinates of east longitude of 98°32'09'' and north latitude of 39°36'10''.



Gold Standard®
for the Global Goals

TEMPLATE

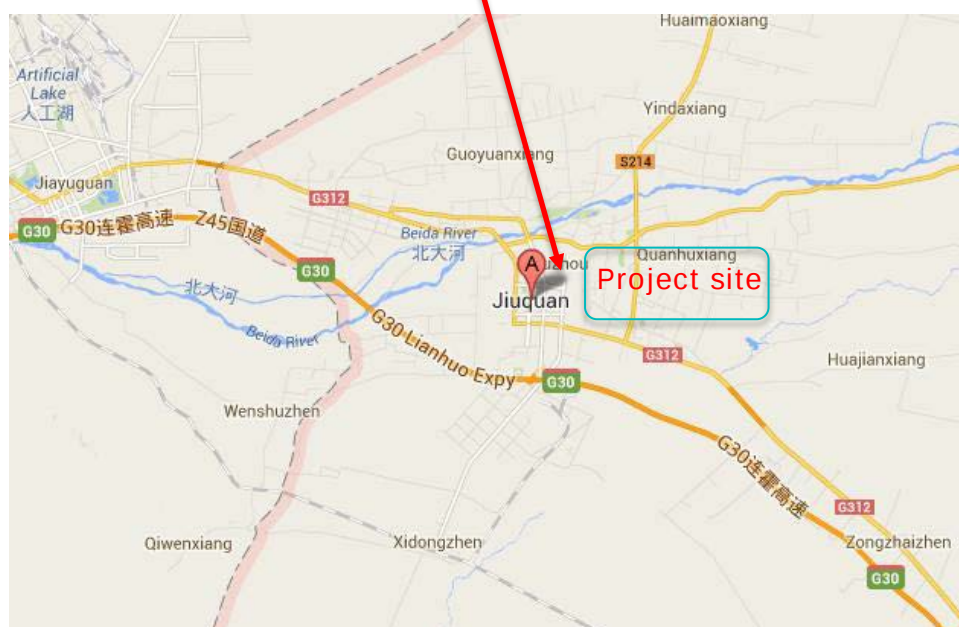
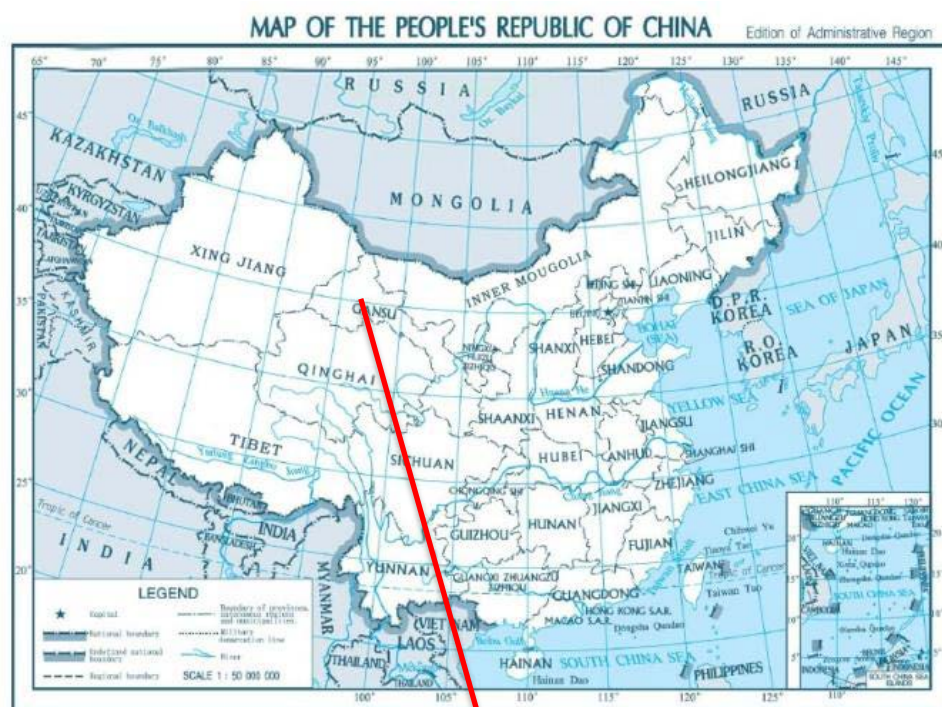


Figure 1 Location of the project

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 08/12/2013 to 07/12/2020. This is the 2nd monitoring period in the 1st crediting period.

SECTION B. IMPLEMENTATION OF PROJECT

B.1. Description of implemented project

The project started operation on 08/12/2013. 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 9.009MWp, consisting of 36,036 pieces of the polycrystalline silicon solar PV cell modules with unit capacity of 250Wp. The electricity generation supplied by the Project is sent to the newly built 35kV switch station 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	-	YL250P-29b
	Quantity	-	36,036
	Rated Max. Power	Wp	250
	Rated Voltage	V	30.4
	Rated Current	A	8.24
	Open Circuit voltage	V	38.4
	Short Circuit current	A	8.79
	Lifetime	year	25
Inverter	Type	-	SG500MX
	Quantity	-	18
	Rated Output power	kW	500
	Rated Output voltage	V	3~315
	Rated Output frequency	HZ	50

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

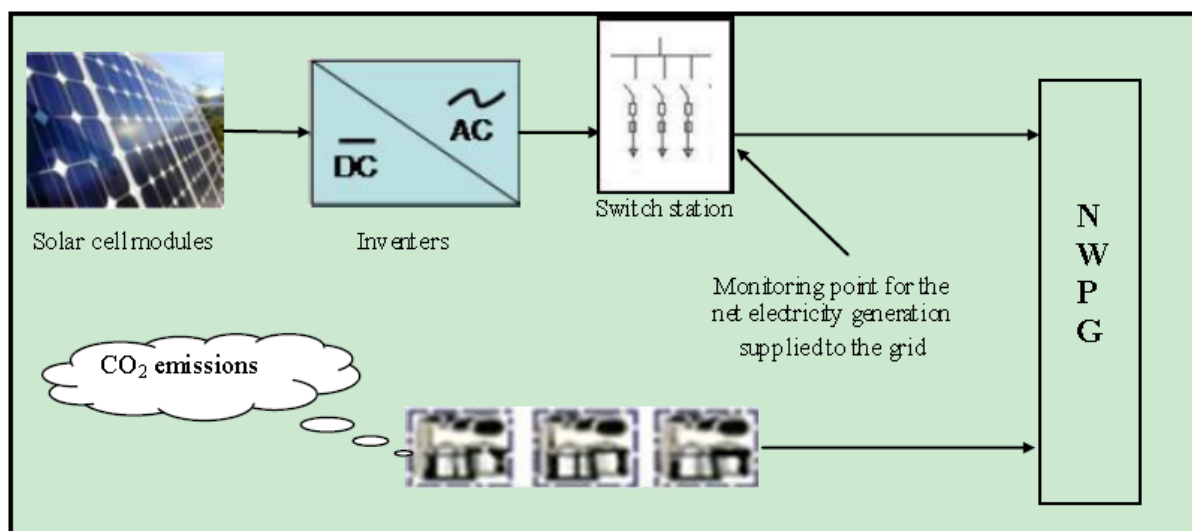


Figure 2 Technical process of the project

B.1.1 Forward Action Requests

Not applicable.

B.2. Post-Design Certification changes

>>

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.

However, there's a site visit frequency deviation from the requirements of GS2.2. As per the Gold Standard Toolkit Version 2.2, Chapter 4, para. 4.7 DOE site visit, site visit is mandatory in one of the first two years after the start of the crediting period, and by default once every three years after that. The site visit for 1st monitoring period of the project was performed by VVB on 14/05/2015 - 15/05/2015, and the site visit for this 2nd monitoring period was on 21/07/2022. The interval between two site visits is over three years, therefore the PP has submitted a deviation request to GS. GS concluded that 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. Thus, for this 2nd monitoring period, only GSVERs achieved during the period from 21/07/2019 to 07/12/2020 will be claimed by the PP.

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.

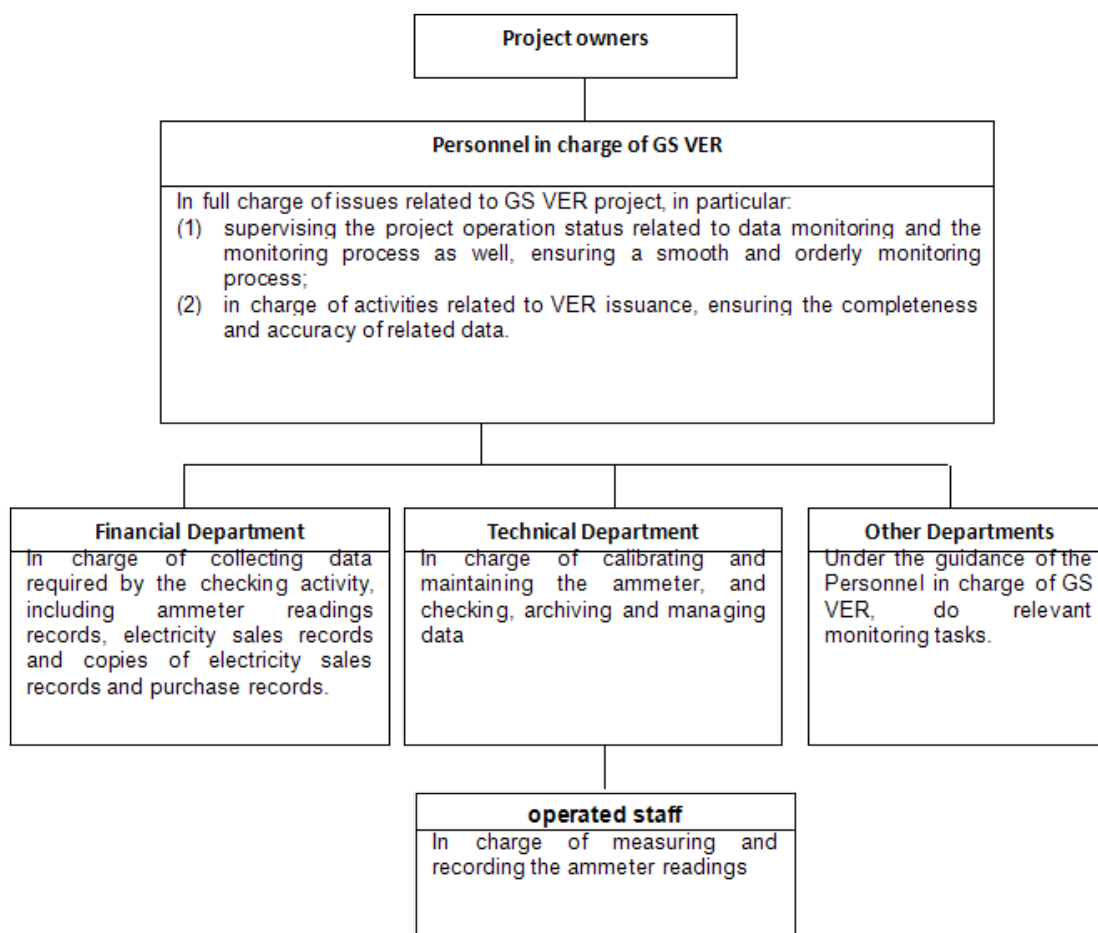


Figure 3 Organizational structure of the monitoring

2. Monitoring Measures

The quantity of net electricity generation supplied to the grid ($EG_{\text{facility},y}$) is measured by the electricity meters M1 (main meter) and meter M1' (backup meter) with accuracy class of no lower than 0.5S installed at the outlet of the newly built 35kV switch station of the project. Please refer to Figure 4 below for the monitoring system of the project.

Two bi-directional electricity meters M1 and M1' with accuracy of 0.2S have been installed at the outlet of the newly built 35kV switch station to monitor the quantity of the grid electricity export and the quantity of the grid electricity import. The quantity of

net electricity generation supplied to the grid ($EG_{\text{facility},y}$) is the difference between the quantity of the grid electricity export and the quantity of the grid electricity import.

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

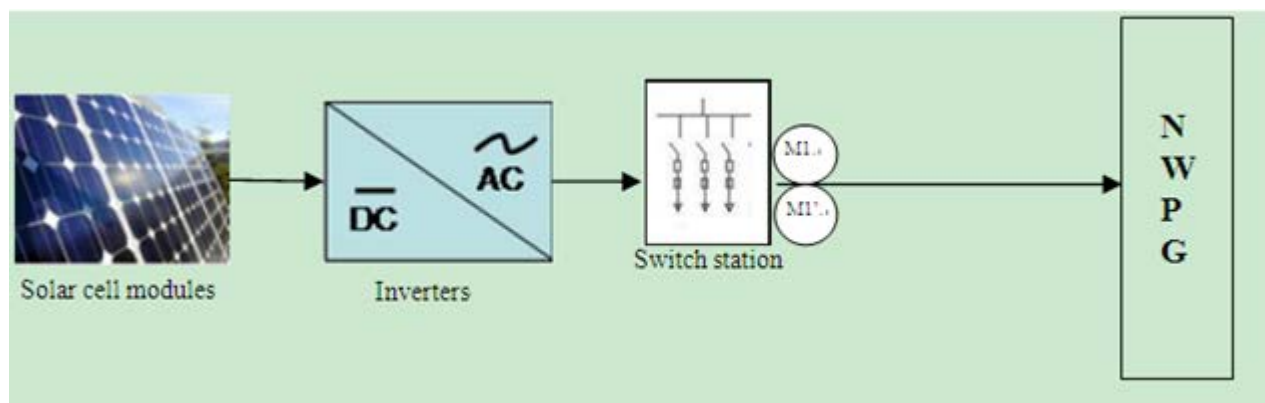


Figure 4 Monitoring system of the project

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

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 reading of the backup meter will be adopted. If both the main meter and backup meter are malfunctioning, 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 tCO₂e.

During this monitoring period, the monitoring system worked continuously without any technical failure. 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.

In conclusion, the monitoring equipment has been correctly installed as per national standards, maintained and calibrated periodically by qualified entity to ensure accuracy. Meter readings are recorded timely, and electricity are settled monthly with the grid company. The PP has designated a specific monitoring group to implement the monitoring system, all staffs are trained and qualified. Therefore, the continuous monitoring of the project can be assured.

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 18)
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> <tr> <th>Period</th><th>Value</th></tr> <tr> <td>21/07/2019~31/12/2019</td><td>4,105</td></tr> <tr> <td>01/01/2020~07/12/2020</td><td>10,899</td></tr> </table>	Period	Value	21/07/2019~31/12/2019	4,105	01/01/2020~07/12/2020	10,899
Period	Value						
21/07/2019~31/12/2019	4,105						
01/01/2020~07/12/2020	10,899						
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) and invoices						
Value(s) applied	<table> <tr> <th>Period</th><th>Value</th></tr> <tr> <td>21/07/2019~31/12/2019</td><td>4,791.799</td></tr> <tr> <td>01/01/2020~07/12/2020</td><td>12,720.131</td></tr> </table>	Period	Value	21/07/2019~31/12/2019	4,791.799	01/01/2020~07/12/2020	12,720.131
Period	Value						
21/07/2019~31/12/2019	4,791.799						
01/01/2020~07/12/2020	12,720.131						
Measurement methods and procedures	Directly measured by electricity meters M1 (main meter) and M1' (backup meter) installed at the outlet of 35kV switch station of the Project.						

	The monthly settlement time of electricity export/import is 24:00 on the last day of the month. ETNs for the quantity of the grid electricity export and invoices for the quantity of the grid electricity import are issued by the grid company based on the meter readings of main meter M1.		
	Electricity meter	M1	M1'
	Type	Mk6E	Mk6E
	Serial Number	213211182	213211183
	Accuracy	0.2S	0.2S
	Latest calibration date	28/10/2018 26/10/2019 20/10/2020	28/10/2018 26/10/2019 20/10/2020
	Validity	27/10/2019 25/10/2020 19/10/2021	27/10/2019 25/10/2020 19/10/2021
	The following parameters have been monitored: (i) The quantity of the grid electricity export; and (ii) The quantity of the grid electricity import. 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	6
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	The trainings were performed onsite by onsite senior engineers

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: 8 Annual average salary: 144,751 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	Wastewater is treated through wastewater treatment facility, then 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*17,511.930 MWh=40.277t NO ₂ emission reduction: 2.6g/KWh*17,511.930 MWh=45.531t

Measurement methods and procedures	Calculated using quantity of net electricity generation supplied to the grid which is 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 SO₂ 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
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 this monitoring period, the net renewable electricity supplied by the project to the grid is 17,511.930 MWh, which could replace the equivalent electricity from fossil fuel-based grid. Therefore, project value of SDG 7 is 17,511.930 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 this monitoring period, the project provided 8 permanent and skilled jobs and carried out 6 technical trainings for all staffs. The average annual salary of the project staffs is 144,751 CNY in this monitoring period, which is much higher than the average salary level (90,420 CNY) of power industry in Gansu Province as indicated in China Statistical Yearbook 2021 (http://www.stats.gov.cn/tjsj/ndsj/2021/indexch.htm). Therefore, project values of SDG 8 are as follows: 8 permanent and skilled jobs; 6 technical trainings for all staffs; 144,751 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) are the product of electrical energy baseline ($EG_{BL,y}$) expressed in MWh of electricity produced by the renewable generating unit multiplied by the grid emission factor, which is calculated as follows:

$$BE_y = EG_{BL,y} * EF_{CO_2,grid,y} = EG_{facility,y} * EF_{grid,CM,y}$$

Where:

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

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

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

Emission Reductions

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

The project value of SDG 13 is calculated as follows:

Period		$EG_{facility,y}$ (Mwh)	$EF_{grid,CM,y}$ (tCO_2e/MWh)	BE_y (tCO_2e)	ER_y (tCO_2e)
21/07/2019	31/12/2019	4,791.799	0.856875	4,105	4,105
01/01/2020	07/12/2020	12,720.131	0.856875	10,899	10,899
Total		17,511.930	-	15,004	15,004

The monthly values of monitored $EG_{facility,y}$ are as follows:

TEMPLATE

Monitoring Period		The quantity of the grid electricity export (MWh)			Monitoring Period**		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	Invoice	Verified data	
		A	B	C=MIN(A,B)			D	E	F=MAX(D,E)	
21-07-2019	31-07-2019	530.376	513.458	513.458	21-07-2019	31-07-2019	12.679	12.812	12.812	500.646
01-08-2019	31-08-2019	1,118.866	1,069.854	1,069.854	01-08-2019	31-08-2019	9.008	9.159	9.159	1,060.695
01-09-2019	30-09-2019	963.816	907.294	907.294	01-09-2019	30-09-2019	14.333	14.556	14.556	892.738
01-10-2019	31-10-2019	1,109.500	1,057.592	1,057.592	01-10-2019	31-10-2019	16.484	16.791	16.791	1,040.801
01-11-2019	30-11-2019	732.774	697.105	697.105	01-11-2019	30-11-2019	19.245	19.572	19.572	677.533
01-12-2019	31-12-2019	674.772	640.539	640.539	01-12-2019	31-12-2019	20.785	21.153	21.153	619.386
2019 SUM		5,130.104	4,885.842	4,885.842	2019 SUM		92.534	94.043	94.043	4,791.799
01-01-2020	31-01-2020	1,109.430	1,045.222	1,045.222	01-01-2020	31-01-2020	17.983	18.263	18.263	1,026.959
01-02-2020	29-02-2020	1,005.970	931.926	931.926	01-02-2020	29-02-2020	14.519	14.720	14.720	917.206
01-03-2020	31-03-2020	1,356.264	1,301.241	1,301.241	01-03-2020	31-03-2020	15.996	16.246	16.246	1,284.995
01-04-2020	30-04-2020	1,487.024	1,463.856	1,463.856	01-04-2020	30-04-2020	14.435	14.665	14.665	1,449.191
01-05-2020	31-05-2020	1,355.676	1,317.100	1,317.100	01-05-2020	31-05-2020	13.941	14.120	14.120	1,302.980
01-06-2020	30-06-2020	1,278.844	1,215.607	1,215.607	01-06-2020	30-06-2020	13.124	13.302	13.302	1,202.305
01-07-2020	31-07-2020	1,239.406	1,150.687	1,150.687	01-07-2020	31-07-2020	13.979	14.228	14.228	1,136.459
01-08-2020	31-08-2020	1,335.165	1,257.602	1,257.602	01-08-2020	31-08-2020	14.052	14.284	14.284	1,243.318
01-09-2020	30-09-2020	1,318.748	1,232.065	1,232.065	01-09-2020	30-09-2020	12.547	27.040	27.040	2,236.847
01-10-2020	31-10-2020	1,093.100	1,031.822	1,031.822	01-10-2020	31-10-2020	14.005			
01-11-2020	30-11-2020	899.056	819.420	819.420	01-11-2020	30-11-2020	17.933	18.208	18.208	801.212
01-12-2020	07-12-2020	145.454	138.667	138.667	01-12-2020	07-12-2020	19.722	20.008	20.008	118.659
2020 sum		13,624.137	12,905.215	12,905.215	2020 sum		182.236	185.084	185.084	12,720.131
Total		18,754.241	17,791.057	17,791.057	Total		274.770	279.127	279.127	17,511.930

****Note:** As the quantity of the grid electricity import was monthly recorded with monthly cut-off time at 24:00 of the last day of each month, the quantity of the grid electricity import during the period 21/07/2019-31/07/2019 and 01/12/2020-07/12/2020 is not available. To ensure conservativeness and simplify the calculation process, the quantity of the grid electricity import during 01/07/2019-31/07/2019 and 01/12/2020-31/12/2020 was deducted for ER calculation.

*****Note:** The quantity of the grid electricity export was daily recorded at 24:00, therefore the quantity of the grid electricity export during the period 21/07/2019-31/07/2019 and 01/12/2020-07/12/2020 is available. To assist the verification of VVB, the grid company issued a statement regarding the quantity of the grid electricity export during the period 21/07/2019-31/07/2019 and 01/12/2020-07/12/2020 which is used for crosscheck with the meter reading records.

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	15,004	15,004
7	MWh of renewable energy supplied	0	17,511.930	17,511.930
	Number of permanent and skilled jobs	0	8	8
8	Number of trainings	0	6	6
	Average annual salary level of project staffs	0	144,751	144,751

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	17,153 tCO ₂ e	15,004 tCO ₂ e
7	20,018 MWh	17,511.930 MWh
	8 job opportunities	8 job opportunities
8	Trainings will be provided for project staffs; however, number of trainings was not specified in the registered PDD and passport	6 trainings
	Annual salary > 90,420 CNY	144,751 CNY

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

For SDG 13 and SDG 7

This monitoring period covers 506 days. As per registered PDD, the project is expected to supply 14,440 MWh renewable energy to the power grid and achieve 12,373 tCO₂e GHG emission reductions annually, thus the estimated value for SDG 7 for this monitoring period is 20,018 MWh (=14,440 MWh × 506 days/365days), the estimated value for SDG 13 for this monitoring period is 17,153 tCO₂e (=12,373 tCO₂e × 506 days/365days).

For SDG 8

The project is expected to provide 8 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 Gansu Province. As per China Statistical Yearbook 2021, the average annual salary of power industry in Gansu Province is 90,420 CNY. Therefore, the estimated value for SDG 8 for this monitoring period is 8 jobs opportunities with technical trainings provided and an average annual salary of higher than 90,420 CNY.

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

For SDG 8

During this monitoring period, the project provided 8 job positions for local people, and relevant staff received 6 trainings for improving their skills and security awareness, and the average salary level of employees is 144,751 CNY, much higher than the average annual salary of power industry in Gansu 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 monitoring period are 12.52% 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 in the Village Committee Offices which are accessible for every villager, detailed as follows: Sihao Village, Mr. Xietao; Jiugou Village, Mr. Wang Haibo; Xiaomiao Village, Mr. Wu Zhiwei
GS Contact (mandatory)	help@goldstandard.org
Other	Telephone access +86-0937-2888978 (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)

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.



TEMPLATE

Appendix 1

Sample of solid and liquid waste treatment records

SXXNY-QEHC DLYY-018-02

酒泉朝阳、三阳光伏电站三废处理台账

时间	三废类型	处置方式	记录人
01/08/2019	生活垃圾	垃圾池收集后送地方环卫部门处置	马徐州
03/08/2019	生活废水	化粪池处理	武学红
09/08/2019	生活垃圾	垃圾池收集后送地方环卫部门处置	马徐州
15/08/2019	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红
21/08/2019	生活垃圾	垃圾池收集后送地方环卫部门处置	马徐州
29/08/2019	废太阳能板	专人收集交生产企业回收（两块）	马徐州
06/09/2019	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红
14/09/2019	生活废水	污水处理设施处理后用于绿化	马徐州
21/09/2019	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红
30/09/2019	生活垃圾	垃圾池收集后送地方环卫部门处置	马徐州
05/10/2019	生活垃圾	垃圾池收集后送地方环卫部门处置	马徐州
08/10/2019	废太阳能板	专人收集交生产企业回收（两块）	马徐州
18/10/2019	生活废水	化粪池处理	武学红
24/10/2019	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红
01/11/2019	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红

SXXNY-QEHC DLYY-018-02

酒泉朝阳、三阳光伏电站三废处理台账

时间	三废类型	处置方式	记录人
08/07/2020	生活废水	化粪池处理	马徐州
14/07/2020	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红
18/07/2020	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红
24/07/2020	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红
30/07/2020	废太阳能板	专人收集交生产企业回收（一块）	马徐州
02/08/2020	生活垃圾	垃圾池收集后送地方环卫部门处置	马徐州
08/08/2020	生活废水	污水处理设施处理后用于绿化	武学红
14/08/2020	生活垃圾	垃圾池收集后送地方环卫部门处置	马徐州
21/08/2020	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红
30/08/2020	生活垃圾	垃圾池收集后送地方环卫部门处置	马徐州
04/09/2020	生活垃圾	垃圾池收集后送地方环卫部门处置	马徐州
12/09/2020	生活废水	化粪池处理	马徐州
16/09/2020	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红
17/09/2020	生活废水	化粪池处理	武学红
24/09/2020	生活垃圾	垃圾池收集后送地方环卫部门处置	武学红

Samples of training records

 三峡新能源 China Three Gorges New Energy Corp.	标准	GB/T 28001-2011
	格式	签到表
	表格编号	AQBG-06- GB/T 28001-2011

会议签到表

会议内容	酒泉检修中心11月份安全例会				
组织部门	安环办	参加人员	酒泉郭阳全等6人		
时 间	2019.11.27	地 点	会议室	人 数	
序 号	部 门			签 名	
1	电气一次组			马小如	
2	综合部			丁 强	
3	综合部			张金祥	
4	综合部			沈乾雯	
5	电气二次组			刘常旺	
6	电气一次组			张金祥	
7	电气一次组			苏东保	
8	电气二次组			陈明龙	

 三峡新能源 China Three Gorges New Energy Corp.	标 准	GB/T 28001-2011
	格 式	会议签到表
	承办部门	安全生产办公室

安全生产例会签到表

会议名称		酒泉检修点 10 月份安全生产例会			
主持人	赵红伟	承办部门		酒泉检修点	
日 期	2020.10.30	时 间	16:00	地 点	会议室
序 号	部 门			签 名	
1	酒泉检修点			曹源涛	
2	酒泉检修点			王志强	
3	酒泉检修点			张家琦	
4	酒泉检修点			丁晓	
5	酒泉检修点			侯飞	
6					
7					
8					
9					
10					
11					
12					
13					

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