

THREE GORGES NEW ENERGY JIUQUAN CO., LTD GUAZHOU 100MW SOLAR POWER PROJECT



Document Prepared By Climate Bridge Ltd.

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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

Three Gorges New Energy Jiuquan Co., Ltd Guazhou 100MW Solar Power Project (hereafter simplified as “the project”) is a newly built grid-connected solar photovoltaic power plant with installed capacity of 100.39¹ MWp, which is located in Solar Power Industry Zone, Guazhou County, Jingyuan City, Gansu Province of China. Power generated by the project replaces part of electricity generated by fossil-fuel dominated Northwest Power Grid (NWPG), thus the project achieves GHG emission reductions.

- The project started construction on 22/09/2013. All project equipment and facilities as described in the registered VCS PD have been correctly installed. Please refer to section 2.1 for details;
- The project started commissioning on 30/12/2013 and runs continuously since commissioning.
- This monitoring period is the second monitoring period. The first monitoring period covers the period from 30/12/2013~29/08/2015 (both days included).
- This monitoring period covers the period from 30/08/2015 to 31/12/2017. The project operated in accordance with the registered VCS PD.
- Total GHG emission reduction achieved in this monitoring period is 132,027 tCO₂e.

1.2 Sectoral Scope and Project Type

Sectoral Scope 1: Energy industries (renewable - / non-renewable sources)

Project Type: Grid-connected renewable power generation

The project is not a grouped project.

1.3 Project Proponent

Organization name	Three Gorges New Energy Jiuquan Co., Ltd.
Contact person	Wang Hongye
Title	General Manager Assistant
Address	No.12, lane 2, Baiguang Road, Xuanwu District, Beijing, China
Telephone	010-58689628
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¹ The total installed capacity of the Solar Photovoltaic Modules is 100.39 MW (=250W*294,315 + 255W*105,144), while the capacity of inverters and box transformers is 100MW.

1.4 Other Entities Involved in the Project

Organization name	Climate Bridge Ltd.
Role in the project	Consultant and VCU Buyer
Contact person	Gao.zhiwen
Title	Project Manager
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1.5 Project Start Date

30/12/2013 (commissioning start date)

1.6 Project Crediting Period

This project adopts renewable crediting periods of 25 years (from 30/12/2013 to 29/12/2038), and the first 10-year crediting period is from 30/12/2013 to 29/12/2023 (both days included).

1.7 Project Location

The Project is located in Solar Power Industry Zone, Guazhou County, Jingyuan City, Gansu Province of China. The coordinates of the project are:

Latitude: 40°36'21.40" - 40°37'502.90" N

Longitude: 96°24'6.30" - 96°25'38.30" E

1.8 Title and Reference of Methodology

ACM0002: "Grid-connected electricity generation from renewable sources" (Version 16.0);

The methodology also refers to:

"Tool for the demonstration and assessment of additionality" (Version 07.0.0);

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

1.9 Other Programs

- Emission Trading Programs and Other Blinding Limits:

The project does not reduce GHG emissions from activities that are included in an emission trading program or any other mechanism that includes GHG allowance trading.

- Other Forms of Environment Credit:

Some periods of the project in this crediting period has registered and issued as international renewable energy certificates (I-REC), the information of I-REC is listed below: <http://www.irecstandard.org/>; Details of the project, monitoring periods and details of I-REC sought are listed below:

Details of the project		Monitoring periods for I-REC	Details of I-REC	
Project title	Device ID		Volumes (MWh)	Issue ID
Guazhou Solar	GUAZSOL1	2015/9/1~2015/12/31	27,654	PPENG-2016-0525-0434-37
Guazhou Solar	GUAZSOL1	2016/1/1~2016/4/30	32,351	PPENG-2016-0525-0448-09
Guazhou Solar	GUAZSOL1	2016/5/1~2016/5/12	3,564	PPENG-2017-0110-0231-58
Guazhou Solar	GUAZSOL1	2017/1/1~2017/1/11	2,826	PPENG-2017-0705-0901-32
Guazhou Solar	GUAZSOL1	2017/1/12~2017/1/12	221	PPENG-2017-0713-0155-07

- Participation under Other GHG Programs:

The project hasn't participated under CDM, GS or any other GHG Programs.

1.10 Sustainable Development

The project promotes local sustainable development through the following aspects:

- The project activity will displace the power generation of fossil fuel power plants, reducing CO₂, SO_x and NO_x emissions significantly, thus mitigating the air pollution and its adverse;
- Improvement of the fossil fuel dominated fuel mix of the electricity generation in the power grid by providing clean and renewable energy source, and help to energy supply security impacts on human health.
- Promote application and diffusion of the innovative/creative solar PV technology in China through the demonstrative practice of the project activity.

2 IMPLEMENTATION STATUS

2.1 Implementation Status of the Project Activity

The project generates electricity by using renewable solar photovoltaic (PV) power and delivers to the NWPG, replacing equivalent electricity generated by fossil fuel fired power plants connected to the NWPG and therefore reducing GHG emissions.

The total installed capacity of the Project is 100.39 MWp, which consists of 100 sets of power generation units (sub-systems). Each of the power generation unit is equipped with 2 inverters and one box transformer. The technical parameters of the main equipment installed for the project are shown in **Table 1**.

Table 1: Parameters of the equipment installed by the project

Photovoltaic Modules	CS6P-250P	CS6P-255P
Manufacturer	Changshu Artes sunshine Power Technology Co., Ltd.	
Quantity	294,315	105,144
Rated maximum power (Wp)	250	255
Rated Power Voltage (V)	30.1	30.2
Rated Power Current (A)	8.30	8.43
Open circuit voltage (V)	37.2	37.4
Life time (years)	25	25
Decay rate in 25 years (%)	≤ 20	≤ 20
Conversion Efficiency (%)	15.54	15.54

Inverter	SG500MX	EP-0500-A
Manufacturer	Sungrow Power Supply Co., Ltd.	Wuxi Sineng New Energy Co. , Ltd
Quantity	98	102
Rated output Power (kW)	500	500
Rated output Voltage (V)	3 ~ 315	315
Rated output frequency (Hz)	50	50

Max. output current (A)	1,008	1,008
-------------------------	-------	-------

Box transformer	ZGS-Z.G-1000/38.5	YBF-1000/40.5	ZGSF11-Z.G-1000/35
Manufacturer	Ningbo Tian'an Transformer Co., Ltd.	Sunel Transformer Co., Ltd.	Jiangsu Huapeng Transformer Co., Ltd.
Quantity	40	30	30
Rated capacity (kVA)	1,000	1,000	1,000
Rated Voltage (V)	38,500±2×2.5/315/315	40,500	38,500±2×2.5/315/315

The electricity generated is transformed to 35kV by box transformers, connected to the onsite substation via 35kV lines, and then transformed to 110kV through the two main transformers before delivered to Bulongji 330kV Substation of the grid company and finally to NWPG.

The project started construction on 22/09/2013 and started commissioning on 30/12/2013. The project operated smoothly without any emergencies or special events that would impact the applicability of the applied methodology. No events that may impact the GHG emission reductions or removals and monitoring occurred during this monitoring period.

2.2 Deviations

2.2.1 Methodology Deviations

No methodology deviations.

2.2.2 Project Description Deviations

No project description deviations

2.3 Grouped Project

The project is not a grouped project.

2.4 Safeguards

2.4.1 No Net Harm

The project will not cause significant impact on the environment and socio-economic as to the conclusion of the EIA. The conclusions of EIA are documented below:

- 1) Ecological environment

The area influenced by the project construction is about 272.59 hm². The construction activity will destroy the nature vegetation. Working area should be strictly defined and water-and-soil conservation measures should be implemented to minimize the water loss and soil erosion.

2) Acoustic environment

The noise during construction period is mainly from the operation of the construction equipment such as excavator and concrete mixer, the sound source is from 86 to 105 dB. Therefore, the mechanical equipment should be well maintained during the construction period to keep the lubrication and decrease noise. The temporary acoustical insulation measures should be applied for the equipment which would cause high noise and also reduce their working hours to minimize the influence to acoustic environment around the project. There're no residents within 1km of the project site, hence the influence of noise is low.

The noise during operation period is mainly from main transformer (around 60dB(A)). After acoustical insulation and range attenuation, the noise inside the project boundary can meet the standard II of GB12348-2008.

3) Air environment

During the construction period, the activities of construction for buildings and roads will cause some ground excavation and massive earthwork transport, which will generate raise dust in the windy days and bring negative impact to local air environment in short time; the transport vehicle will aggravate the raise dust and the TSP concentration will exceed the limit. But due to the range attenuation of TSP, as long as there are effective prevention and treatment, the impact will be minimized to least.

4) Water environment

The highest amount of domestic sewage generated during construction period is about 2.4m³/d which is mainly inside the living area. The temporary toilet built for compost treatment will prevent the pollution of water environment. The waste water from construction will be collected in sedimentation tank without discharge and then used for reducing road dust after treatment. The domestic sewage generated during operation period will be treated and should reach the Water Quality Standard for Farmland Irrigation (GB5084-2005) and can be used for greenbelt around the plant area. In addition, a tank of 150m³ will be built for temporary storage of waste water during winter season when no irrigation needed.

5) Solid waste environment

No waste earth and stone during construction period will be stockpiled, and the domestic garbage generated during construction and operation period will be gathered into the garbage bags and then transported to collection site in Guazhou County for disposal. During year15-25 of operation period, the polysilicon batteries will be replaced step by step. Totally 7,437 tonnes of used batteries will be recycled by manufacture. All dangerous waste will be gathered and transported to Gansu Hazardous Waste Disposal Centre.

6) Socio- economic impacts

The project promotes local sustainable development through the following aspects:

- Improvement of the fossil fuel dominated fuel mix of the electricity generation in the power grid by providing clean and renewable energy source, and help to energy supply security.
- Promote application and diffusion of the innovative/creative solar PV technology in China through the demonstrative practice of the project activity.

2.4.2 Local Stakeholder Consultation

The project owner designed a questionnaire to collect the comments of relevant stakeholders. The one page questionnaire was designed with the following sections

- 1) Brief introduction of the project
- 2) Basic information of respondent
- 3) Major question issues
 - Whether the project will cause water pollution?
 - Whether the project will cause air pollution?
 - Whether the project will cause noise pollution?
 - Whether the project will impact on soil environment?
 - Whether the project will impact on the surrounding animals and plants?
 - Impact on the local residents' employment opportunities and income.
 - Impact on the local economic development.
 - Impact on the local power grid and NWPG.
 - Attitude on developing the project

30 questionnaires have been handed in total and all of them have been received successfully from the stakeholder representatives, respectively from the local government, and surrounding villages. The representatives covered different ages, different occupations and different education levels. most of the stakeholders interviewed expressed the project will benefit the local environment, economy and social development, some of them thought there is no significant impact on those, and no negative impact were raised by stakeholders..

3 DATA AND PARAMETERS

3.1 Data and Parameters Available at Validation

Data / Parameter	EF _{grid,CM,y}
Data unit	tCO ₂ e/MWh
Description	Combined margin CO ₂ emission factor for Northwest Power Grid in year y
Source of data	China DNA
Value applied:	0.8311
Justification of choice of data or description of measurement methods and procedures applied	2014 Baseline Emission Factors for Regional Power Grids in China issued by China DNA on 11/05/2015.
Purpose of the data	Calculation of baseline emissions
Comments	-

3.2 Data and Parameters Monitored

Data / Parameter	EG _{facility,y}														
Data unit	MWh														
Description	Quantity of net electricity generation supplied by the project plant to the grid in year y														
Source of data	Calculated														
Description of measurement methods and procedures to be applied	Calculated based on the electricity delivered to the grid by the project (EG _{export,y}) and the electricity imported from the grid by the project (EG _{import,y})														
Frequency of monitoring/recording	Measured continuously and recorded monthly														
Value monitored:	Exclude the electricity in periods of 30/08/2015~31/12/2015, 01/01/2016~29/05/2016 and 01/01/2017~29/01/2017, the EG_{facility,y} is listed below: <table border="1"> <thead> <tr> <th>Period</th><th>Value</th></tr> </thead> <tbody> <tr> <td>30/08/2015~31/12/2015</td><td>0.000</td></tr> <tr> <td>01/01/2016~29/05/2016</td><td>0.000</td></tr> <tr> <td>30/05/2016~31/12/2016</td><td>60,089.480</td></tr> <tr> <td>01/01/2017~29/01/2017</td><td>0.000</td></tr> <tr> <td>30/01/2017~31/12/2017</td><td>98,769.020</td></tr> <tr> <td>Total</td><td>158,858.500</td></tr> </tbody> </table>	Period	Value	30/08/2015~31/12/2015	0.000	01/01/2016~29/05/2016	0.000	30/05/2016~31/12/2016	60,089.480	01/01/2017~29/01/2017	0.000	30/01/2017~31/12/2017	98,769.020	Total	158,858.500
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01/01/2017~29/01/2017	0.000														
30/01/2017~31/12/2017	98,769.020														
Total	158,858.500														
Monitoring equipment	-														
QA/QC procedures to be applied	The quantity of electricity delivered to the grid by the														

	project ($EG_{export,y}$) and the electricity imported from the grid by the project ($EG_{import,y}$) is crosschecked with electricity sales and purchase receipts.
Purpose of the data	Calculation of baseline emissions
Calculation method	$EG_{facility,y} = EG_{export,y} - EG_{import,y}$
Comments	-

Data / Parameter	$EG_{export,y}$																						
Data unit	MWh																						
Description	Quantity of the electricity delivered to the grid by the project in year y																						
Source of data	On-site measurement																						
Description of measurement methods and procedures to be applied	Use calibrated electric meters. The accuracy of the meter(s) is 0.2s The calibration was conducted annually subject to national standards.																						
Frequency of monitoring/recording	Measured continuously and recorded monthly																						
Value monitored:	The actual quantity of the electricity delivered to the grid by the project is listed below: <table border="1"> <thead> <tr> <th>Period</th><th>Value</th></tr> </thead> <tbody> <tr> <td>30/08/2015~31/12/2015</td><td>27,699.600</td></tr> <tr> <td>01/01/2016~29/05/2016</td><td>41,295.140</td></tr> <tr> <td>30/05/2016~31/12/2016</td><td>61,116.000</td></tr> <tr> <td>01/01/2017~29/01/2017</td><td>7,787.000</td></tr> <tr> <td>30/01/2017~31/12/2017</td><td>100,245.000</td></tr> <tr> <td>Total</td><td>238,142.740</td></tr> </tbody> </table> Since the electricity generated during the periods of 01/09/2015~31/12/2015, 01/01/2016~12/05/2016, and 01/01/2017~12/01/2017 has been issued as I-REC, for convenience and conservative, the electricity generated during the periods of 30/08/2015~31/12/2015, 01/01/2016~29/05/2016 and 01/01/2017~29/01/2017 are not claimed for VCUs. The electricity generated during those periods is listed below: <table border="1"> <thead> <tr> <th>Period</th><th>Value</th></tr> </thead> <tbody> <tr> <td>30/08/2015 - 31/12/2015</td><td>27,699.600</td></tr> <tr> <td>01/01/2016~29/05/2016</td><td>41,295.140</td></tr> <tr> <td>01/01/2017~29/01/2017</td><td>7,787.000</td></tr> </tbody> </table>	Period	Value	30/08/2015~31/12/2015	27,699.600	01/01/2016~29/05/2016	41,295.140	30/05/2016~31/12/2016	61,116.000	01/01/2017~29/01/2017	7,787.000	30/01/2017~31/12/2017	100,245.000	Total	238,142.740	Period	Value	30/08/2015 - 31/12/2015	27,699.600	01/01/2016~29/05/2016	41,295.140	01/01/2017~29/01/2017	7,787.000
Period	Value																						
30/08/2015~31/12/2015	27,699.600																						
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30/05/2016~31/12/2016	61,116.000																						
01/01/2017~29/01/2017	7,787.000																						
30/01/2017~31/12/2017	100,245.000																						
Total	238,142.740																						
Period	Value																						
30/08/2015 - 31/12/2015	27,699.600																						
01/01/2016~29/05/2016	41,295.140																						
01/01/2017~29/01/2017	7,787.000																						

	Total	76,781.740
	After exclusion of the above electricity, the $EG_{\text{export},y}$ is listed below:	
	Period	Value
	30/08/2015~31/12/2015	0.000
	01/01/2016~29/05/2016	0.000
	30/05/2016~31/12/2016	61,116.000
	01/01/2017~29/01/2017	0.000
	30/01/2017~31/12/2017	100,245.000
	Total	161,361.000
Monitoring equipment	Monitored by bidirectional electricity meter M1 Mode:WU.TE432q Serial number: 41600811 Accuracy: 0.2s Calibration frequency: Annually Date of calibration:14/11/2014,14/11/2015, 14/11/2016,14/11/2017 Validity: 14/11/2014 – 13/11/2018 Calibration entity name: Gansu Electric Power Company Energy Measurement Center	
QA/QC procedures to be applied	Meter is calibrated periodically by the third party calibration entity. The data is crosschecked by the electricity sale receipts.	
Purpose of the data	Calculation of baseline emissions	
Calculation method	-	
Comments	-	
Data / Parameter	$EG_{\text{import},y}$	
Data unit	MWh	
Description	Quantity of the electricity imported from the grid by the project in year y	
Source of data	On-site measurement	
Description of measurement methods and procedures to be applied	Use calibrated electric meters. The accuracy of the meter(s) is 0.2s. The calibration is conducted annually subject to national standards.	
Frequency of monitoring/recording	Measured continuously and recorded monthly	
Value monitored:	The actual quantity of the electricity imported from the grid by the project is listed below:	

	Period	Value
	30/08/2015~31/12/2015	577.280
	01/01/2016~29/05/2016	700.920
	30/05/2016~31/12/2016	1,026.520
	01/01/2017~29/01/2017	93.94
	30/01/2017~31/12/2017	1,475.980
	Total	3,874.640
Since the electricity generated during the periods of 01/09/2015~31/12/2015, 01/01/2016~12/05/2016, and 01/01/2017~12/01/2017 has been issued as I-REC, for convenience and conservative, the electricity generated during the periods of 30/08/2015~31/12/2015, 01/01/2016~29/05/2016 and 01/01/2017~29/01/2017 are not claimed for VCU. The electricity generated during those periods is listed below:		
	Period	Value
	30/08/2015 - 31/12/2015	577.280
	01/01/2016~29/05/2016	700.92
	01/01/2017~29/01/2017	93.94
	Total	1,372.140
After exclusion of the above electricity, the $EG_{import,y}$ is listed below:		
	Period	Value
	30/08/2015~31/12/2015	0.000
	01/01/2016~29/05/2016	0.000
	30/05/2016~31/12/2016	1,026.520
	01/01/2017~29/01/2017	0.000
	30/01/2017~31/12/2017	1,475.980
	Total	2,502.500
Monitoring equipment	Monitored by bidirectional electricity meter M1 Mode:WU.TE432q Serial number: 41600811 Accuracy: 0.2s Calibration frequency: Annually Date of calibration:14/11/2014,14/11/2015, 14/11/2016,14/11/2017 Validity: 14/11/2014 – 13/11/2018 Calibration entity name: Gansu Electric Power Company Energy Measurement Center	
QA/QC procedures to be	Cross check measurement results with electricity purchase receipts	

applied	
Purpose of the data	Calculation of baseline emissions
Calculation method	-
Comments	-

3.3 Monitoring Plan

3.3.1 Operation and management structure

Overall responsibility for daily monitoring and reporting lies with the project owner. A monitoring group is established within the project company to carry out the monitoring work. The structure of the monitoring group is as follows:

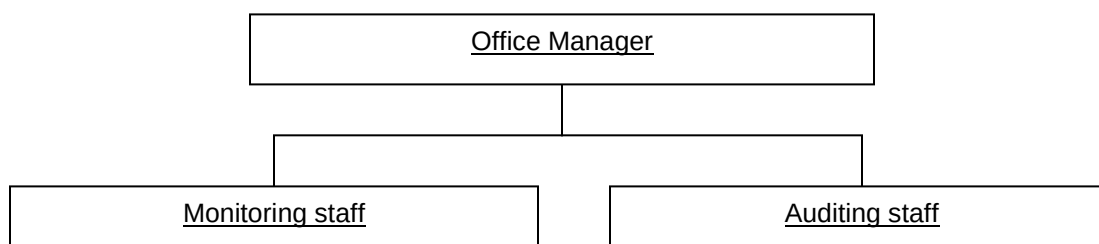


Figure 1 Organization structure of the monitoring team

The responsibilities of each role in the team structure are:

- Office manager has the overall management responsibility, especially supervising the implementation of the monitoring plan
- Monitoring staff measures the electricity imported to and exported from the project
- Auditing staff performs internal verification of the measurement, collects relevant receipts and calculates emission reductions
- Finally, general manager reviews the monitoring reports.

3.3.2 Monitoring equipment and installation

The electricity generated by the project is transformed to 110kV through the onsite 110kV substation before connected to the Bulongji Substation of NWPG through 110kV transmission line. And two bi-directional meters M1 and M2 with accuracy of 0.2s are installed to monitor the electricity delivered to the grid by the project ($EG_{export,y}$) and the electricity imported from the grid by the project ($EG_{import,y}$). Meter M2 is installed at the Bulongji substation, and meter M1 is installed at the onsite 110kV substation. Meter M1 is owned, operated and maintained by the project owner and meter M2 is owned, operated and maintained by the grid company. Since meter M2 is out of project owner's reach, the readings from meter M1 are used for ER calculation,

and when M1 is out of order, the readings from meter M2, which are provided by the grid company only under such circumstances, are used instead. The total electricity delivered to the grid by the project is calculated as follows: $EG_{facility,y} = EG_{export,y} - EG_{import,y}$.

During this monitoring period, meter M1 runs continuously with no malfunctioning.

The power line diagram of the project is shown as follows:

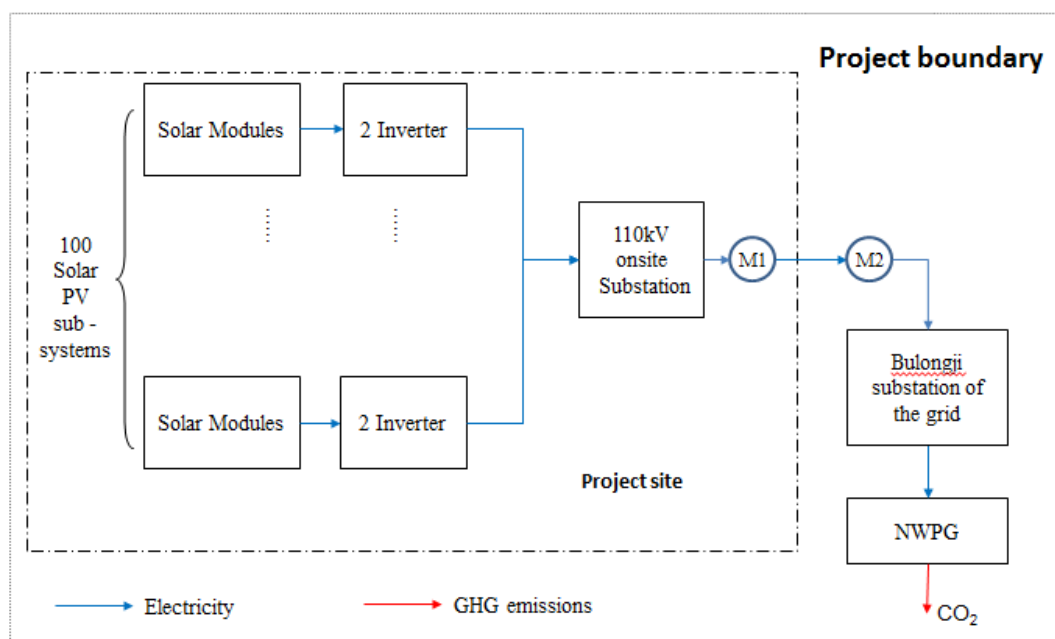


Figure 2 Power line diagram of the monitoring system

1) Data collection system

The procedures of data recording and collecting are listed below:

- The project owner reads meter M1 every month and then submits the reading results to the grid company for crosscheck with meter readings of meter M2. Upon agreement on the electricity readings from both parties, the project owner provides the grid company sale receipt for $EG_{export,y}$ and the power grid issues the project owner receipt for $EG_{import,y}$.
- The project owner files the meter readings of M1 in the monthly report. The monthly report is archived and used to calculate emission reductions.
- The project owner collects and keeps on file maintenance records, meter calibration documents.

2) Quality assurance and quality control (QA/QC)

QA/QC practice involves:

- The metering equipment is calibrated and checked annually for accuracy;
- Calibration is carried out by qualified parties with the records supplied to the project owner, and the calibration ensured sufficient accuracy so that any error resulting from such equipment did not exceed the allowable error of full-scale rating.
- When M1 is out of work, M2 is used for measurement, and no emission reduction is claimed when both M1 and M2 are out of work.

All data collected as part of monitoring is archived electronically. All information is stored by the technology department of the project owner and all the materials have physical copies for backup. And all data including calibration records is kept until 2 years after the end of the crediting period, or the last issuance of VCU, whichever is later.

4 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

4.1 Baseline Emissions

Baseline Emissions (BE_y) is determined by multiplying net electricity generation supplied by the project plant to the grid ($EG_{facility,y}$) during the monitoring period by Emission Factor ($EF_{grid,CM,y}$) of NWPG.

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

where

BE_y : Baseline emissions of the NWPG during monitoring period

$EF_{grid,CM,y}$: Emission factor of the NWPG during monitoring period

$EG_{facility,y}$: Electricity generated by the project (electricity directed to Bulongji substation) during the monitoring period

As stated in Section 3.1, the grid emission factor $EF_{grid,cm,y}$ of the project during this crediting period is 0.8311 tCO₂e/MWh, the baseline emissions for the monitoring period are listed as follows:

Table 2 Baseline Emissions during this monitoring period

Time Period	$EG_{export,y}$ MWh	$EG_{import,y}$ MWh	$EG_{facility,y}$ MWh	BE_y tCO ₂ e
30/08/2015~31/12/2015	0.000	0.000	0.000	0
01/01/2016~29/05/2016	0.000	0.000	0.000	0
30/05/2016~31/12/2016	61,116.000	1,026.520	60,089.480	49,940
01/01/2017~29/01/2017	0.000	0.000	0.000	0
30/01/2017~31/12/2017	100,245.000	1,475.980	98,769.020	82,087
Total	161,361.000	2,502.500	158,858.500	132,027

4.2 Project Emissions

The project is a renewable energy project, therefore, according to methodology ACM0002, there is no emission for the project, $PE_y=0$.

4.3 Leakage

According to methodology ACM0002, project leakage is not considered, $L_y=0$.

4.4 Net GHG Emission Reductions and Removals

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
30/08/2015~31/12/2015	0	0	0	0
01/01/2016~29/05/2016	0	0	0	0
30/05/2016~31/12/2016	49,940	0	0	49,940
01/01/2017~29/01/2017	0	0	0	0
30/01/2017~31/12/2017	82,087	0	0	82,087
Total	132,027	0	0	132,027

APPENDIX 1: MONITORED VALUES OF ELECTRICITY(INCLUDED THE ELECTRICITIES ISSUED AS I-REC)

Period	EG _{export,y} (MWh)			EG _{import,y} (MWh)			EG _{facility,y} (MWh)
	Measured by the main meter	Electricity data in Sales Receipts	Conservative value	Measured by the main meter	Electricity data in Sales Receipts	Conservative value	EG _{export,y} - EG _{import,y}
30/08/2015-28/09/2015	6,700.760	6,512.000	6,512.000	112.420	50.000	112.420	6,399.580
29/09/2015-29/10/2015	7,013.600	7,117.000	7,013.600	110.440	88.000	110.440	6,903.160
30/10/2015-28/11/2015	7,269.020	7,216.000	7,216.000	148.500	22.000	148.500	7,067.500
29/11/2015-31/12/2015	7,014.700	6,958.000	6,958.000	205.920	64.500	205.920	6,752.080
30/08/2015-31/12/2015	27,998.080	27,803.000	27,699.600	577.280	224.500	577.280	27,122.320
01/01/2016-29/01/2016	6,577.120	6,549.000	6,549.000	144.100	51.000	144.100	6,404.900
30/01/2016-27/02/2016	7,842.120	7,788.000	7,788.000	197.340	88.000	197.340	7,590.660
28/02/2016-29/03/2016	7,448.320	7,392.000	7,392.000	149.380	82.500	149.380	7,242.620
30/03/2016-28/04/2016	10,507.860	10,472.000	10,472.000	116.600	99.000	116.600	10,355.400
29/04/2016-29/05/2016	9,094.140	9,108.000	9,094.140	76.780	93.500	93.500	9,000.640
30/05/2016-28/06/2016	11,464.860	11,275.000	11,275.000	100.320	49.500	100.320	11,174.680
29/06/2016-29/07/2016	11,746.020	11,660.000	11,660.000	104.720	55.000	104.720	11,555.280
30/07/2016-29/08/2016	8,989.860	8,932.000	8,932.000	118.580	60.500	118.580	8,813.420
30/08/2016-28/09/2016	10,755.360	10,681.000	10,681.000	134.640	60.500	134.640	10,546.360
29/09/2016-29/10/2016	9,687.920	9,603.000	9,603.000	141.240	66.000	141.240	9,461.760
30/10/2016-28/11/2016	4,502.520	4,400.000	4,400.000	150.480	77.000	150.480	4,249.520
29/11/2016-31/12/2016	4,597.560	4,565.000	4,565.000	276.540	94.000	276.540	4,288.460
01/01/2016-31/12/2016	103,213.660	102,425.000	102,411.140	1,710.720	876.500	1,727.440	100,683.700
01/01/2017-29/01/2017	7,828.700	7,787.000	7,787.000	93.940	93.000	93.940	7,693.060
30/01/2017-26/02/2017	8,083.240	7,975.000	7,975.000	179.520	93.500	179.520	7,795.480
27/02/2017-29/03/2017	8,342.400	8,228.000	8,228.000	150.260	77.000	150.260	8,077.740
30/03/2017-28/04/2017	9,944.440	9,812.000	9,812.000	122.320	60.500	122.320	9,689.680
29/04/2017-29/05/2017	12,010.680	11,847.000	11,847.000	133.980	66.000	133.980	11,713.020
30/05/2017-28/06/2017	5,401.000	5,324.000	5,324.000	99.440	49.500	99.440	5,224.560
29/06/2017-29/07/2017	9,505.540	9,383.000	9,383.000	85.800	44.000	85.800	9,297.200
30/07/2017-29/08/2017	12,230.240	12,067.000	12,067.000	129.580	66.000	129.580	11,937.420
30/08/2017-28/09/2017	10,782.420	10,637.000	10,637.000	120.340	60.500	120.340	10,516.660
29/09/2017-29/10/2017	7,767.100	7,733.000	7,733.000	144.760	77.000	144.760	7,588.240
30/10/2017-28/11/2017	8,524.340	8,338.000	8,338.000	155.320	66.000	155.320	8,182.680
29/11/2017-31/12/2017	8,973.580	8,901.000	8,901.000	154.660	88.000	154.660	8,746.340
01/01/2017-31/12/2017	109,393.680	108,032.000	108,032.000	1,569.920	841.000	1,569.920	106,462.080
Total (30/08/2015-31/12/2017)	240,605.420	238,260.000	238,142.740	3,857.920	1,942.000	3,874.640	234,268.100

APPENDIX 1: MONITORED VALUES OF ELECTRICITY(EXCLUDED THE ELECTRICITIES ISSUED AS I-REC)

Period	EG _{export,y} (MWh)			EG _{import,y} (MWh)			EG _{facility,y} (MWh)
	Measured by the main meter	Electricity data in Sales Receipts	Conservative value	Measured by the main meter	Electricity data in Sales Receipts	Conservative value	EG _{export,y} - EG _{import,y}
30/08/2015-28/09/2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29/09/2015-29/10/2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30/10/2015-28/11/2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29/11/2015-31/12/2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30/08/2015-31/12/2015	0.000	0.000	0.000	0.000	0.000	0.000	0.000
01/01/2016-29/01/2016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30/01/2016-27/02/2016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
28/02/2016-29/03/2016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30/03/2016-28/04/2016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
29/04/2016-29/05/2016	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30/05/2016-28/06/2016	11,464.860	11,275.000	11,275.000	100.320	49.500	100.320	11,174.680
29/06/2016-29/07/2016	11,746.020	11,660.000	11,660.000	104.720	55.000	104.720	11,555.280
30/07/2016-29/08/2016	8,989.860	8,932.000	8,932.000	118.580	60.500	118.580	8,813.420
30/08/2016-28/09/2016	10,755.360	10,681.000	10,681.000	134.640	60.500	134.640	10,546.360
29/09/2016-29/10/2016	9,687.920	9,603.000	9,603.000	141.240	66.000	141.240	9,461.760
30/10/2016-28/11/2016	4,502.520	4,400.000	4,400.000	150.480	77.000	150.480	4,249.520
29/11/2016-31/12/2016	4,597.560	4,565.000	4,565.000	276.540	94.000	276.540	4,288.460
30/05/2016-31/12/2016	61,744.100	61,116.000	61,116.000	1,026.520	462.500	1,026.520	60,089.480
01/01/2017-29/01/2017	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30/01/2017-26/02/2017	8,083.240	7,975.000	7,975.000	179.520	93.500	179.520	7,795.480
27/02/2017-29/03/2017	8,342.400	8,228.000	8,228.000	150.260	77.000	150.260	8,077.740
30/03/2017-28/04/2017	9,944.440	9,812.000	9,812.000	122.320	60.500	122.320	9,689.680
29/04/2017-29/05/2017	12,010.680	11,847.000	11,847.000	133.980	66.000	133.980	11,713.020
30/05/2017-28/06/2017	5,401.000	5,324.000	5,324.000	99.440	49.500	99.440	5,224.560
29/06/2017-29/07/2017	9,505.540	9,383.000	9,383.000	85.800	44.000	85.800	9,297.200
30/07/2017-29/08/2017	12,230.240	12,067.000	12,067.000	129.580	66.000	129.580	11,937.420
30/08/2017-28/09/2017	10,782.420	10,637.000	10,637.000	120.340	60.500	120.340	10,516.660
29/09/2017-29/10/2017	7,767.100	7,733.000	7,733.000	144.760	77.000	144.760	7,588.240
30/10/2017-28/11/2017	8,524.340	8,338.000	8,338.000	155.320	66.000	155.320	8,182.680
29/11/2017-31/12/2017	8,973.580	8,901.000	8,901.000	154.660	88.000	154.660	8,746.340
30/01/2017-31/12/2017	101,564.980	100,245.000	100,245.000	1,475.980	748.000	1,475.980	98,769.020
Total (30/08/2015-31/12/2017)	163,309.080	161,361.000	161,361.000	2,502.500	1,210.500	2,502.500	158,858.500