



**Verified Carbon
Standard**

JIANGSU DONGTAI PHASE II WIND POWER PROJECT

Document Prepared by

Guohua Energy Investment Co., Ltd.

Contact Information

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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The purpose of the report is to calculate the emission reductions generated by Jiangsu Dongtai Phase II Wind Power Project (thereafter referred to the project) during the monitoring period (01/11/2018 to 31/07/2022), and to serve as basis for the verification and issuance of corresponding VCUs.

The Project, developed by Guohua (Jiangsu) Wind Power Co., Ltd., involves construction and operation of a wind power project that is sited in Jiangggang Town, Dongtai County, Yancheng City, Jiangsu Province, China. The construction start date for the project is 26/05/2010. The first power unit started operation on 10/12/2010, and all the wind turbine generators were put into operation on 31/12/2012. The Project has been registered as a CDM project on 26/03/2012 (UNFCCC registration reference number: 5924).

The total installed capacity of the Project is 200MW consisting of 100 sets of wind turbine with unit capacity of 2MW. The electricity generated by the Project is delivered to the East China Power Grid (ECPG). The scenario existing prior to the start of the implementation of the project is the same as the baseline scenario, i.e. electricity would have otherwise been generated by the operation of existing power plants connected to ECPG and by the addition of new generation sources of ECPG. After the project is put into operation, the power generated will replace a part of power supply in ECPG which is dominated by fuel-fired power plants and thus reduce greenhouse gas (GHG) emission through avoiding CO₂ emissions produced by ECPG. The estimated annual emission reductions are 338,011 tCO_{2e} during the first crediting period and 280,488 tCO_{2e} during the second crediting period.

During this monitoring period (01/11/2018 to 31/07/2022), the monitoring activities were conducted strictly in accordance with the monitoring plan contained in the registered CDM-PDD. The Project has operated without any accidental or emergency events that might impact the accuracy and/or implementation of monitoring activities during this monitoring period. The net power supply during this monitoring period is 1,246,286.010 MWh. The total emission reductions in this monitoring period (01/11/2018 to 31/07/2022) are 956,291 tCO_{2e}.

1.2 Sectoral Scope and Project Type

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

Project type: Grid-connected wind power project.

The project is not a grouped project.

1.3 Project Proponent

Organization name	Guohua (Jiangsu) Wind Power Co., Ltd.
Contact person	Mr. Hu Weiping
Title	Project manager
Address	No. 3 of Dongzhimen South Street, Dongcheng District, Beijing
Telephone	010-58151719
Email	20005222@ceic.com

1.4 Other Entities Involved in the Project

Organization name	N/A
Role in the Project	N/A
Contact person	N/A
Title	N/A
Address	N/A
Telephone	N/A
Email	N/A

1.5 Project Start Date

10/12/2010, on which the VCS project began reducing GHG emissions.

1.6 Project Crediting Period

First crediting period:

10/12/2010 - 09/12/2020 which covers 10 years.

Section crediting period:

10/12/202 - 09/12/203 which covers 10 years.

There is a deviation for the crediting period. The project is registered under VCS Standard 3 and completed validation before 19/03/2020, thus it remains eligible to apply the crediting period requirements under VCS Version 3 which shall be a maximum of ten years and may be renewed at most twice, so the first renewable crediting period of the project shall be updated from

10/12/2010-31/03/2012 to 10/12/2010 - 09/12/2020. Besides, since the project has been registered under CDM, and is not eligible for VCU issuance beyond the end of the total project crediting period under CDM (31/03/2033). However the project lifetime is 20 years. Therefore the project crediting life would be 10/12/2010 – 09/12/2030.

1.7 Project Location

The Project is located in Jiangggang Town, Dongtai County, Yancheng City, Jiangsu Province, China, and the geographical coordinates are 120°54'11" east longitude and 32°39'35" north latitude.

1.8 Title and Reference of Methodology

Approved consolidated baseline and monitoring methodology ACM0002.version 12.1.0 (1st crediting period)-“Consolidated methodology for grid-connected electricity generation from renewable sources” and version 20.0 (2nd crediting period)-“Grid-connected electricity generation from renewable sources”

The methodology also refers to the approved versions for the following tools:

- Tool for the demonstration and assessment of additionality version 05.2.1 (1st crediting period);
- Tool to calculate the emission factor for an electricity system version 02.2.1 (1st crediting period) and version 7.0 (2nd crediting period)

Reference:

<http://cdm.unfccc.int/methodologies/PAmethodologies/approved.html>

1.9 Participation under other GHG Programs

The Project was registered as a CDM project on 26/03/2012 (Ref. 5924). The first CDM crediting period is from 01/04/2012 to 31/03/2019. CERs of 628,247 tCO₂e have been issued for the monitoring periods from 01/04/2012 to 31/05/2014. The emission reductions during this monitoring period (01/11/2018 to 31/07/2022) will only apply for issuance under VCS, which is ensured by the statement that the PP will not request the issuance of CERs under CDM and the VCUs will not be double counted.

1.10 Other Forms of Credit

Emission Trading Programs and Other Binding Limits

China has a national emissions trading scheme only cover the high-emission industries, such as thermal power generation, petrochemical, chemical, building materials, iron and steel, non-ferrous, paper, aviation and other key emission industries that emitted at least 26,000 tons of CO₂e/year, not including renewable project¹.

¹ http://www.mee.gov.cn/xxgk2018/xxgk/xxgk05/202103/t20210330_826728.html

Thus, the project proponent: Guohua (Jiangsu) Wind Power Co., Ltd. as an enterprise for renewable energy investment, is not included in the compliance entity list by China national Emission Trading Scheme (ETS). Moreover, the project has not been registered as a CCER (Chinese Certified Emission Reductions) project in China, thus it is not eligible for emission reductions transaction under the China's ETS.

Therefore, the project does not reduce GHG emissions from activities that are included in an emissions trading program or any other mechanism that includes GHG allowance trading. The net GHG emission reductions generated during this monitoring period have not been used for compliance under such programs or mechanisms. Furthermore, a statement on no double counting will be submitted to Verra to confirm the credits during this monitoring period has not been counted and will not be counted under emission trading programs and other binding limits.

Other Forms of Environmental Credit

The project has not sought or received another form of GHG-related environmental credit, including renewable energy certificates, during this monitoring period.

1.11 Sustainable Development Contributions

The Project activity will not only supply renewable electricity to grid, but also contribute to sustainable development of the local community, which mainly include the following:

- The project utilizes wind resources to generate and supplied 1,246,286.010MWh renewable electricity to the power grid during this monitoring period, which contributes to SDG 7.
- The project provides 25 long-term job opportunities for local residents during this monitoring period, which has a positive effect on the local economy which contributes to SDG 8.
- The project utilizes zero-emission wind power to supply electricity to the grid, and reduces 956,291 tCO₂e of GHG emissions during this monitoring period, which contributes to SDG 13.

For evidence of SDGs, please refer to Appendix 1 for details.

Table 1: Sustainable Development Contributions

Row number	SDG Target	SDG Indicator	Net Impact on SDG Indicator	Current Project Contributions	Contributions Over Project Lifetime
1)	7.2	7.2.1 Renewable energy share in the total final energy consumption	Implemented activities to increase	The project has provided 1,246,286.010 MWh renewable energy generation during this monitoring period.	This is the first time to report sustainable development contributions of the project. The project has provided 1,246,286.010 MWh renewable energy generation accumulated at the end of this monitoring period.

2)	8.5	8.5.1 Average hourly earnings of employees, by sex, age, occupation and persons with disabilities	Implemented activities to increase	The project has employed at least 25 persons including at least 22 men and 3 women during this monitoring period with yearly average salary higher than the local average salary of the respective years² : <table><tr><th>Year</th><th>Number of staff (men+women)</th><th>Average yearly salary of the project (CNY)</th><th>Local average salary (CNY)</th></tr><tr><td>2018</td><td>22+3</td><td>111,537</td><td>70,147</td></tr><tr><td>2019</td><td>23+4</td><td>120,353</td><td>82,104</td></tr><tr><td>2020</td><td>24+4</td><td>124,846</td><td>86,650</td></tr><tr><td>2021</td><td>24+4</td><td>136,346</td><td>97,835</td></tr></table>	Year	Number of staff (men+women)	Average yearly salary of the project (CNY)	Local average salary (CNY)	2018	22+3	111,537	70,147	2019	23+4	120,353	82,104	2020	24+4	124,846	86,650	2021	24+4	136,346	97,835	Employed at least 25 persons yearly.
Year	Number of staff (men+women)	Average yearly salary of the project (CNY)	Local average salary (CNY)																						
2018	22+3	111,537	70,147																						
2019	23+4	120,353	82,104																						
2020	24+4	124,846	86,650																						
2021	24+4	136,346	97,835																						
3)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	By supplying 1,246,286.010 MWh renewable energy to the grid, the project has prevented the release of 956,291 tonnes of carbon into the atmosphere during the monitoring period.	This is the first time to report sustainable development contributions of the project. the project prevented the release of 956,291 tonnes of carbon into the atmosphere accumulated at the end of this monitoring period.																				

² <http://tjj.yancheng.gov.cn/attach/0/1a3c4d108b0f453b894fc634c327c355.pdf>

http://tjj.yancheng.gov.cn/art/2022/6/24/art_1774_3870168.html

2 SAFEGUARDS

2.1 No Net Harm

In accordance with relevant laws and regulations on environmental protection, an Environmental Impact Assessment (EIA) of the proposed project has been implemented. The results of the EIA have been approved by the General Office of Ministry of Environmental Protection of the People's Republic of China.

The EIA has assessed every possible aspect of environmental impacts of the project and recommended corresponding measures, where applicable. The environmental impacts and corresponding mitigation measures during operation have been discussed in the registered CDM-PDD. No negative environmental impacts have been identified.

Furthermore, the project makes positive contributions to the sustainable development as described in section 1.11 of this report e.g., providing job opportunities and clean energy to the local community, and mitigating GHG emissions.

In conclusion, construction and operation of the project does not cause any negative environmental nor socio-economic impacts.

2.2 Local Stakeholder Consultation

LSC prior to the project implementation

A public survey was conducted on 06/01/2010 by the project owner. Questionnaires were distributed to the stakeholders in the directly affected area, requesting comments on the proposed project construction. As there are few people living around the wind farm project site, 30 copies of questionnaire were distributed and 30 copies of the questionnaire were returned. From the comments above, it can be concluded most representatives think the proposed project will do good to local environment and economy and all support it.

LSC during the operation period

During this monitoring period, the project carried out the communication with local stakeholders in line with the on-going communication mechanism, i.e.,

The project owner published the contact information of the contact person who is responsible for stakeholders' comments to the local government and residents. Stakeholders were informed of the contact information, and their comments can be directly collected by the contact person. The comments would be fed back to the stakeholders by the contact person for a timely response. Besides, the contact person of project owner also meets local villagers to collect their comments and suggestions at least yearly. Actually the contact person met local villagers to collect their comments and suggestions respectively in May 2019, June 2020, May 2021 and May 2022. Once the contact person received negative comments from the stakeholders, the contact person would record the negative comments and the feedback. The local authority also conducts spot checks on the implementation of the project at periodic intervals as per relevant regulations.

In line with VCS requirements all the processed have been implemented to receive comments from local stakeholders as well as communicate with them. By the end of this monitoring period, the project did not receive any negative comments nor grievance from the stakeholders.

2.3 AFOLU-Specific Safeguards

The project is a non-AFOLU project, and this section is not required.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The total installed capacity of the Project is 200MW consisting of 100 sets of wind turbine with unit capacity of 2MW. See Table 2 below for key technical specifications.

Table 2. Major technical parameters of the key equipments of the Project

Parameters Name	Unit	Value
Type	/	W2000M-93-80
Rated output	KW	2,000
Number of blades	piece	3
Rotor diameter	M	93
Cut-in speed	m/s	3
Cut-out speed	m/s	25
Rated voltage of generator	V	690
Frequency	Hz	50
Lifetime	years	20

No abnormal circumstance occurred during this monitoring period. There is no event or situation occurred during the monitoring period, which may impact the applicability of the methodology and may impact the GHG emission reductions or removals and monitoring. The project was operational as normal during the monitoring period.

3.2 Deviations

3.2.1 Methodology Deviations

No methodology deviation exists.

3.2.2 Project Description Deviations

There is a deviation for the crediting period. The project is registered under VCS Standard 3 and completed validation before 19/03/2020, thus it remains eligible to apply the crediting period requirements under VCS Version 3 which shall be a maximum of ten years and may be renewed at most twice, so the first renewable crediting period of the project shall be updated from 10/12/2010-31/03/2012 to 10/12/2010 - 09/12/2020. Besides, since the project has been registered under CDM, and is not eligible for VCU issuance beyond the end of the total project

crediting period under CDM (31/03/2033). However the project lifetime is 20 years. Therefore the project crediting life would be 10/12/2010 – 09/12/2030. This deviation is related to the change on the duration of the crediting period, which does not impact the applicability of the methodology, additionality or the appropriateness of the baseline scenario. This deviation has been validated during the renewal of the crediting period.

3.3 Grouped Projects

The Project is not a grouped project.

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

Data / Parameter	EF _{grid,CM,y}
Data unit	tCO ₂ e/MWh
Description	The combined margin grid emission factor of the East China Power Grid where the Project connected to
Source of data	Registered CDM-PDD
Value applied	0.8325 in the first crediting period 0.690825 in the second crediting period
Justification of choice of data or description of measurement methods and procedures applied	Determined ex-ante and fixed for the 1 st crediting period and 2 nd crediting period respectively
Purpose of Data	Calculation of baseline emissions.
Comments	-

4.2 Data and Parameters Monitored

Data / Parameter	EG _{out,y}
Data unit	MWh
Description	Electricity delivered to grid in year y
Source of data	Electricity meter reading
Description of measurement methods and procedures to be applied	Two main electricity meters (M1,M2) and two backup meters (M1B, M2B) are used to measure the Electricity delivered to grid in year y
Frequency of monitoring/recording	Continuously monitored and monthly recorded and aggregated

Value monitored	1,254,259.262
Monitoring equipment	See table below
QA/QC procedures to be applied	Meters have been properly calibrated annually according to the requirement from Technical administrative code of electric energy metering (national standard reference: DL/T448), and in compliance with the requirement of monitoring plan. Meter readings are crosschecked with sales receipts. All data and records are archived during the crediting period and at least 2 years after the end of the crediting period.
Purpose of the data	Calculation of baseline emissions
Calculation method	-
Comments	-

Data / Parameter	EG _{in,y}
Data unit	MWh
Description	Electricity imported from grid in year y
Source of data	Electricity meter reading
Description of measurement methods and procedures to be applied	Two main electricity meters (M1,M2) and two backup meters (M1B, M2B) are used to measure the Electricity imported from grid in year y
Frequency of monitoring/recording	Continuously monitored and monthly recorded and aggregated
Value monitored	7,973.252
Monitoring equipment	See table below
QA/QC procedures to be applied	Meters have been properly calibrated annually according to the requirement from Technical administrative code of electric energy metering (national standard reference: DL/T448), and in compliance with the requirement of monitoring plan. Meter readings are crosschecked with sales receipts. All data and records are archived during the crediting period and at least 2 years after the end of the crediting period.
Purpose of the data	Calculation of baseline emissions
Calculation method	-
Comments	-

Data / Parameter	$EG_{facility,y}$
Data unit	MWh
Description	Net electricity delivered to the Grid by the Project activity in year y
Source of data	Calculation: $EG_{facility,y} = EG_{out,y} - EG_{in,y}$
Description of measurement methods and procedures to be applied	Calculated by $EG_{facility,y} = EG_{out,y} - EG_{in,y}$
Frequency of monitoring/recording	Continuously monitored and monthly recorded and aggregated
Value monitored	1,246,286.010
Monitoring equipment	See table below.
QA/QC procedures to be applied	Calculated by $EG_{facility,y} = EG_{out,y} - EG_{in,y}$
Purpose of the data	Used for baseline emission calculation
Calculation method	Calculated by $EG_{facility,y} = EG_{out,y} - EG_{in,y}$
Comments	-

Table 3 Information of meters

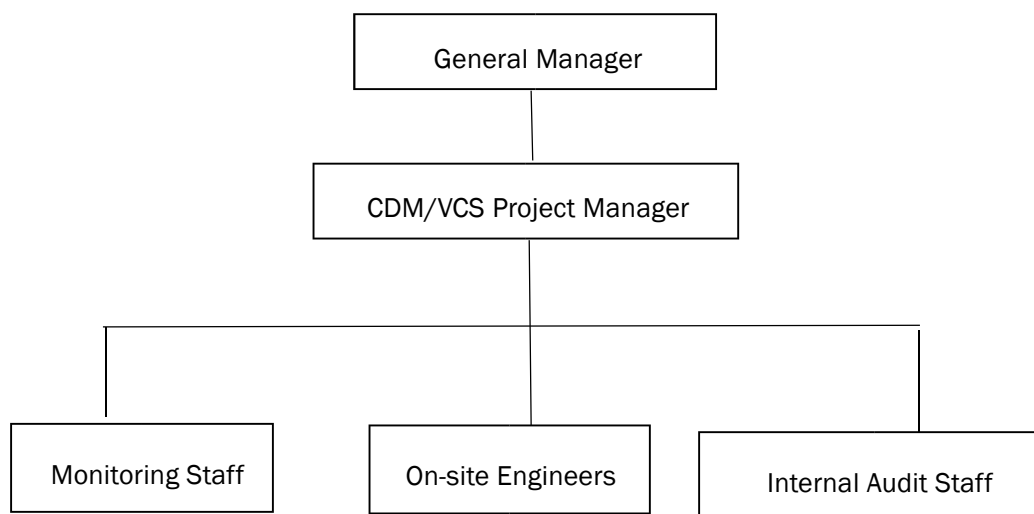
Meter	Type	Serial No.	Accuracy	Calibration date	Valid till	Calibrator
M1	Electricity meter	96347859	0.2S	09/03/2018	08/03/2019	Electricity research institute of Jiangsu Grid Company
				14/02/2019	13/02/2020	
				10/01/2020	09/01/2021	
				05/01/2021	04/01/2022	
				30/12/2021	29/12/2022	
M1B	Electricity meter	96386908	0.2S	09/03/2018	08/03/2019	
				14/02/2019	13/02/2020	
				10/01/2020	09/01/2021	
				05/01/2021	04/01/2022	
M2	Electricity meter	Used before 17/02/2019: 14684234	0.2S	09/03/2018	08/03/2019	
		Used after 17/02/2019: 96348038	0.2S	14/02/2019	13/02/2020	
				10/01/2020	09/01/2021	
				05/01/2021	04/01/2022	
M2B	Electricity meter	Used before 17/02/2019: BJ900523	0.2S	30/12/2021	29/12/2022	
				09/03/2018	08/03/2019	

		Used after 17/12/2019: 96348181	0.2S	14/02/2019	13/02/2020
				10/01/2020	09/01/2021
				05/01/2021	04/01/2022
				30/12/2021	29/12/2022

4.3 Monitoring Plan

1. Monitoring organization

Project owner organized a special CDM/VCS workgroup to take charge of the monitoring work of the whole project. The general manager of the project entity appointed a CDM/VCS project manager. Monitoring staff, on-site engineers and internal audit staff are responsible for the collection of the data and information required in the monitoring plan. The collected data and information is documented and sent to the CDM/VCS manager monthly. The CDM/VCS manager is in charge of the implementation of the monitoring plan and report to the general manager of the project owner. The general manager makes the confirmations on monitoring,



CDM/VCS project manager is responsible for supervising and checking data and whole data record process as well as keeping receipt of sales for cross check. Record keeping is the most important exercise in relation to the monitoring process. In order to facilitate auditor's reference, monitoring results is indexed. All paper-based information is stored by the Project owner and kept at least in one copy. And all data collected were archived electronically and will be kept for at least 2 years after the end of the last crediting period.

2. Monitoring equipments

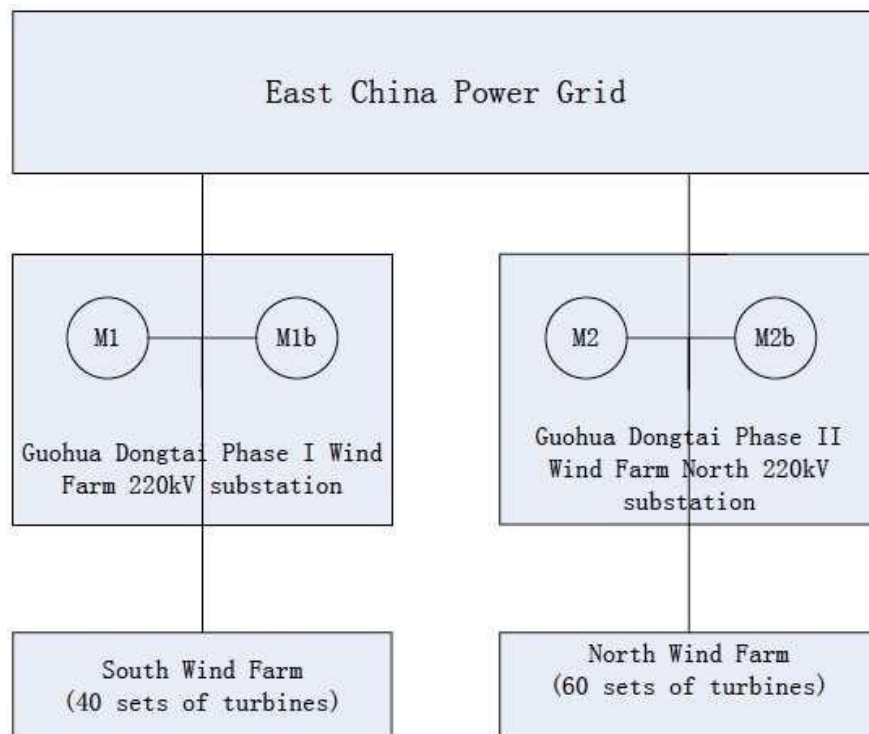
The Project consists two wind farms, including 60 sets of turbines installed in north wind farm and the other 40 sets of turbines installed in south wind farm. One pair (meter M1 and

its backup meter M1B) were installed at Guohua Dongtai Phase I Wind Farm 220kV substation to measure the electricity export to the grid and electricity import from the grid by south wind farm of the project. Another pair (meter M2 and its backup meter M2B) were installed at Guohua Dongtai Phase II Wind Farm North 220kV substation to measure the electricity generated from the north wind farm of the project.

All the metering equipments used were properly configured and checked according to the national standard. The metering equipment were checked by the project owner and Grid Company before operation. The main meter is owned, operated and maintained by East China Power Grid, and the backup meter is owned, operated and maintained by the owner company. When the main meter is out of order, the readings from the backup meter will be used for reference.

All meters mentioned above has the accuracy of 0.2s and all parameters measured by these meters are continuously measurement daily read at 24:00 and monthly recorded on the last day of each month, and all the data collected are used to calculate the Project's net electricity delivered to the grid. All the records were documented and maintained by the Project owner for DOE's verification.

The location of those meters is presented in following figure:



3. Calibration of Meters & Metering

All the meters were calibrated annually according to national standard by qualified third party to make sure that the electricity meters are accurate. And these calibration records are maintained by the Project owner.

4. Data collection and Emergency procedures

Project manager is responsible for supervising and checking data and whole data record process as well as keeping receipt of sales for cross check. All paper-based information will be stored by the Project owner and kept at least in one copy. And all data collected should be archived electronically and be kept for at least 2 years after the end of the last crediting period.

If the main meter is inaccurate by detecting errors larger than the allowable one, or functions improperly, the grid-connected electricity generated by the Project shall be determined by the reading of its backup meter.

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

As per the registered PD, the baseline emission of the project is calculated as below:

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

Table 4 Baseline emissions calculation

Year	EG _{facility}	EF _{grid,CM,y}	BE _y
	MWh	tCO ₂ e/MWh	tCO ₂ e
1st crediting period			
2018 (01/11/2018 to 31/12/2018)	66,084.288	0.8325	55,015
2019 (01/01/2019 to 31/12/2019)	310,000.335	0.8325	258,075
2020 (01/01/2020 to 09/12/2020)	296,784.144	0.8325	247,072
Total in 1st crediting period	672,868.767	/	560,162
2nd crediting period			
2020 (10/12/2020 to 31/12/2020)	18,832.072	0.690825	13,009
2021 (01/01/2021 to 31/12/2021)	369,577.804	0.690825	255,313
2022 (01/01/2022 to 31/07/2022)	185,007.367	0.690825	127,807
Total in 2nd crediting period	573,417.243	0.690825	396,129
Total	1,246,286.010	/	956,291

The monitored monthly electricity data is shown in the tables below:

Table 5 Monitoring results (MWh)

Period start	Period end	EG _{out,y}			EG _{in,y}			EG _y =EG _{out,y} -EG _{in,y}
		M1	M2	Total	M1	M2	Total	
1st crediting period								
01/11/2018	30/11/2018	9,668.586	14,682.753	24,351.339	0.000	343.015	343.015	24,008.324
01/12/2018	31/12/2018	18,082.473	24,131.070	42,213.543	0.000	137.579	137.579	42,075.964
Subtotal 2018		-	-	66,564.882	-	-	480.594	66,084.288
01/01/2019	31/01/2019	9,150.098	14,435.303	23,585.401	0.000	256.573	256.573	23,328.828
01/02/2019	28/02/2019	10,802.758	16,357.244	27,160.002	0.000	134.090	134.090	27,025.912
01/03/2019	31/03/2019	14,034.493	21,850.193	35,884.686	0.000	121.325	121.325	35,763.361
01/04/2019	30/04/2019	12,471.996	19,644.570	32,116.566	0.000	217.259	217.259	31,899.307
01/05/2019	31/05/2019	11,040.077	17,014.467	28,054.544	0.000	122.021	122.021	27,932.523
01/06/2019	30/06/2019	7,277.711	10,834.606	18,112.317	0.000	86.214	86.214	18,026.103
01/07/2019	31/07/2019	6,509.394	10,361.657	16,871.051	0.000	253.889	253.889	16,617.162
01/08/2019	31/08/2019	12,453.607	18,411.408	30,865.015	0.000	260.243	260.243	30,604.772
01/09/2019	30/09/2019	9,997.795	15,408.145	25,405.940	0.000	288.579	288.579	25,117.361
01/10/2019	31/10/2019	7,976.281	12,152.464	20,128.745	0.000	202.804	202.804	19,925.941
01/11/2019	30/11/2019	10,492.190	15,588.346	26,080.536	0.000	78.214	78.214	26,002.322
01/12/2019	31/12/2019	12,269.268	15,728.067	27,997.335	0.000	240.592	240.592	27,756.743
Subtotal 2019		-	-	312,262.138	-	-	2,261.803	310,000.335
01/01/2020	31/01/2020	11,251.276	18,991.074	30,242.350	0.000	219.481	219.481	30,022.869
01/02/2020	29/02/2020	11,187.552	19,351.001	30,538.553	0.000	57.763	57.763	30,480.790
01/03/2020	31/03/2020	15,515.102	24,977.941	40,493.043	0.000	94.899	94.899	40,398.144
01/04/2020	30/04/2020	12,747.101	19,639.425	32,386.526	0.000	108.759	108.759	32,277.767
01/05/2020	31/05/2020	13,991.755	23,353.839	37,345.594	0.000	225.254	225.254	37,120.340

01/06/2020	30/06/2020	6,549.788	15,622.637	22,172.425	0.000	211.491	211.491	21,960.934
01/07/2020	31/07/2020	7,283.482	13,184.957	20,468.439	0.000	258.843	258.843	20,209.596
01/08/2020	31/08/2020	8,764.738	10,211.476	18,976.214	0.000	119.742	119.742	18,856.472
01/09/2020	30/09/2020	4,662.712	7,642.435	12,305.147	0.000	329.552	329.552	11,975.595
01/10/2020	31/10/2020	6,796.811	11,222.260	18,019.071	0.000	212.581	212.581	17,806.490
01/11/2020	30/11/2020	10,476.637	17,735.205	28,211.842	0.000	240.725	240.725	27,971.117
01/12/2020	09/12/2020	2,978.838	4,826.412	7,805.250	0.000	101.220	101.220	7,704.030
Subtotal 2020		-	-	298,964.454	-	-	2,180.310	296,784.144
Total in 1st crediting period		-	-	677,791.474	-	-	4,922.707	672,868.767
2nd crediting period								
10/12/2020	31/12/2020	7,281.605	11,797.895	19,079.500	0.000	247.428	247.428	18,832.072
Subtotal 2020		-	-	19,079.500	-	-	247.428	18,832.072
10/12/2020	31/01/2021	14,700.502	23,917.626	38,618.128	0.000	148.139	148.139	38,469.989
01/02/2021	28/02/2021	17,882.326	28,479.998	46,362.324	0.000	29.665	29.665	46,332.659
01/03/2021	31/03/2021	12,342.258	20,022.926	32,365.184	0.000	70.004	70.004	32,295.180
01/04/2021	30/04/2021	11,546.820	19,944.241	31,491.061	0.000	147.593	147.593	31,343.468
01/05/2021	31/05/2021	10,735.909	17,861.418	28,597.327	0.000	119.892	119.892	28,477.435
01/06/2021	30/06/2021	8,007.102	14,527.851	22,534.953	0.000	156.711	156.711	22,378.242
01/07/2021	31/07/2021	17,440.817	23,680.688	41,121.505	0.000	122.514	122.514	40,998.991
01/08/2021	31/08/2021	6,467.249	11,355.604	17,822.853	0.000	357.042	357.042	17,465.811
01/09/2021	30/09/2021	12,151.936	12,413.363	24,565.299	0.000	153.719	153.719	24,411.580
01/10/2021	31/10/2021	12,812.817	16,969.061	29,781.878	0.000	247.359	247.359	29,534.519
01/11/2021	30/11/2021	14,187.168	18,579.371	32,766.539	0.000	98.111	98.111	32,668.428
01/12/2021	31/12/2021	10,495.006	14,859.836	25,354.842	0.000	153.340	153.340	25,201.502
Subtotal 2021		-	-	371,381.893	-	-	1,804.089	369,577.804
01/01/2022	31/01/2022	10,123.532	15,337.844	25,461.376	0.000	196.654	196.654	25,264.722
01/02/2022	28/02/2022	7883.504	12,025.833	19,909.337	0.000	161.91	161.910	19,747.427
01/03/2022	31/03/2022	14120.06	20,328.013	34,448.073	0.000	154.405	154.405	34,293.668
01/04/2022	30/04/2022	11807.196	18,105.395	29,912.591	0.000	133.065	133.065	29,779.526

01/05/2022	31/05/2022	8862.227	14,796.956	23,659.183	0.000	96.431	96.431	23,562.752
01/06/2022	30/06/2022	10455.304	18,346.772	28,802.076	0.000	90.332	90.332	28,711.744
01/07/2022	31/07/2022	8666.573	15,147.186	23,813.759	0.000	166.231	166.231	23,647.528
Subtotal 2022		-	-	186,006.395	-	-	999.028	185,007.367
Total in 2nd crediting period		-	-	576,467.788	-	-	3,050.545	573,417.243
Total		-	-	1,254,259.262	-	-	7,973.252	1,246,286.010

Note: during this monitoring report, the data of electricity from the meter reading records is consistent with the sales receipts. The project only imported electricity from the grid from the transmission line metered by M2 and the $EG_{in,y}$ metered by the M1 is zero.

5.2 Project Emissions

As per the methodology and the registered CDM-PDD, the project emission is 0.

5.3 Leakage

As per the methodology and the registered CDM-PDD, the leakage is 0.

5.4 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)
1st crediting period				
2018 (01/11/2018 to 31/12/2018)	55,015	0	0	55,015
2019 (01/01/2019 to 31/12/2019)	258,075	0	0	258,075
2020 (01/01/2020 to 09/12/2020)	247,072	0	0	247,072
Total in 1st crediting period	560,162	0	0	560,162
2nd crediting period				
2020 (10/12/2020 to 31/12/2020)	13,009	0	0	13,009
2021 (01/01/2021 to 31/12/2021)	255,313	0	0	255,313
2022 (01/01/2022 to 31/07/2022)	127,807	0	0	127,807
Total in 2nd crediting period	396,129	0	0	396,129
Total	956,291	0	0	956,291

Comparison of the actual emission reductions with the estimated values of this monitoring period is analysed as follows:

1st crediting period:

Annual estimated emission reductions are 338,011 tCO₂e

Total days during this monitoring period are 770 days

Calculated estimation of the emission reductions: $338,011 * 770 / 365 = 713,064 \text{ tCO}_2\text{e}$

The actual emission reductions achieved during this monitoring period are 21.44% lower than the estimated ex-ante amount.

2nd crediting period:

Annual estimated emission reductions are 280,488 tCO₂e

Total days during this monitoring period are 599 days

Calculated estimation of the emission reductions: $280,488 * 599 / 365 = 460,308 \text{ tCO}_2\text{e}$

The actual emission reductions achieved during this monitoring period are 13.94% lower than the estimated ex-ante amount.