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Standard**

INNER MONGOLIA SUNJIAYING 50.25MW WIND POWER PROJECT

Document Prepared by Longyuan (Beijing) Carbon Asset Management
Technology Co., Ltd.

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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

Inner Mongolia Sunjiaying 50.25MW Wind Power Project is a grid connected renewable energy project located in Inner Mongolia Autonomous Region, Northeast China. The objective of the project is to generate electricity using wind power generation technology and to sell into the Power Grid. The project involves the installation of 67 sets of 750 kW wind turbines, which amounts to a total installed capacity of 50.25MW.

The project is expected to supply 120.94GWh renewable electricity annually to the power grid during the 20 years lifetime. The project achieves CO₂ emission reduction by replacing electricity generated by fossil fuel fired power plant connected into China Northeast Power Grid. The estimated annual emission reduction of the project is 138,585 tCO₂e.

The project was implemented in consistency with the registered PD. The project began to construct on 08-April-2006 and started fully operation since 01-Jan-2007¹.

This is the second monitoring period from 01-May-2012 to 31-Dec-2016 under VCS program for the project. The total GHG emission reductions generated in this monitoring period are 498,388 tCO₂e.

1.2 Sectoral Scope and Project Type

Sectoral scope: 1 energy industries (Renewable sources).

Project type: Grid connected wind power project.

The project is not a grouped project.

1.3 Project Proponent

Organization name	Chifeng Xinsheng Wind Power Co., Ltd.
Contact person	Wang Haihan
Title	Manager
Address	Yihegong town, Wengniute Banner, Chifeng City, Inner Mongolia, P.R. China

¹ All the 67 sets wind turbine generators connected to the power grid on 31-Dec-2006 and started power generation officially on 01-Jan-2007, which is also the start date of VCS crediting period of the project. Therefore, the fully operation start date in this monitoring report is confirmed to be 01-Jan-2007.

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1.4 Other Entities Involved in the Project

Organization name	Longyuan (Beijing) Carbon Asset Management Technology Co., Ltd.
Role in the Project	Consultant
Contact person	Yu Shanshan
Title	General Manager
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1.5 Project Start Date

01-Jan-2007 (Fully operation start date, please refer to footnote 1 above for details).

1.6 Project Crediting Period

The project applies renewable crediting period. The 1st crediting period of the VCS project is 10 years, from 01-Jan-2007 to 31-Dec-2016.

1.7 Project Location

The project is located in Wengniute County, East Inner Mongolia, China. Its geographical coordinates are north latitude 42°41'21" and east longitude 118°02'56.7". Please refer to Figure 1 below.



Figure 1 Location of the project

1.8 Title and Reference of Methodology

Applied methodology: ACM0002 (Version 6): Consolidated methodology for grid-connected electricity generation from renewable sources.

Applied tools: Tool for the Demonstration and Assessment of Additionality (version 03).

The applied methodology and tool can be found from the following link:

<https://cdm.unfccc.int/methodologies/PAmethodologies/approved>

1.9 Participation under other GHG Programs

The project is a registered CDM project with reference No. 1488, the detailed information can be found at <https://cdm.unfccc.int/Projects/DB/DNV-CUK1198676316.92/view>.

The emission reductions achieved during period 24-April-2008 to 30-April-2012 have been issued as CERs under CDM program. The first monitoring period under VCS program was from 01-Jan-2007 to 23-April-2008, with VCUs successfully issued. This is the second monitoring period under VCS program from 01-May-2012 to 31-Dec-2016 for the project. All emission reductions during this monitoring period have not and will not seek CDM CER issuance. Emission reductions during this monitoring period will only seek issuance under VCS program.

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 project². Thus, the project proponent Chifeng Xinsheng 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). Furthermore, 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.

² http://www.mee.gov.cn/xxgk/xxgk05/202103/t20210330_826728.html

1.11 Sustainable Development Contributions

The project activity is a renewable wind power project located in Inner Mongolia Autonomous Region, Northeast China.



The project utilizes wind resources to generate and supplied 434,933.639MWh renewable electricity to the power grid during this monitoring period, which contributes to SDG 7.



The project provides 22 long-term decent job opportunities for local residents including 6 positions for female and the average salary rate of the project's employees is higher than the local average salary rate which has a positive effect on the local economy and contributes to SDG 8.



The renewable electricity generated by the project replaces electricity generation by fossil-fuel power plants of the power grid, which reduced 498,388 tCO₂e GHG emission during this monitoring period and contributes to SDG 13.

Since the project contributions with all impacts are not included in previously approved VCS monitoring reports or reported in Sustainable Development Contribution Reports, all impacts during the previous monitoring period from 01-Jan-2007 to 30-Apr-2012 has not been calculated in the cumulative impact. Thus, the cumulative impacts in project lifetime are same as the one in this monitoring period.

Please refer to section 4 and section 5 of this monitoring report for the evidence of the project's contribution to SD 7 and SDG 13. And the evidence for SDG 8 is submitted as a separate document to Verra due to confidentiality requirement of the project proponent.

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	Renewable energy supplied to the power grid	Implemented activities to increase	434,933.639 MWh of electricity from renewable sources has been supplied to the power grid during the reporting period	An accumulated 434,933.639 MWh of electricity from renewable sources has been supplied to the power grid by end of the reporting period
2)	8.5	Numbers of decent job opportunities provided by implementation of the project	Implemented activities to increase	22 people have been employed by the project as long-term employee which have income higher than local average level	22 people have been employed by the project as long-term employee by end of the reporting period
3)	13.0	Tonnes of greenhouse gas emissions avoided	Implemented activities to increase	The project has achieved a total GHG emission reduction of 498,388 tCO ₂ e during the reporting period.	An accumulated 498,388 tCO ₂ e of GHG emission reduction have been achieved by the project by end of the reporting period

2 SAFEGUARDS

2.1 No Net Harm

The Environmental Impact Assessment (EIA) of the project has been conducted and approved by local government officials. The EIA report 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 PD. No negative environmental impacts have been identified.

Furthermore, the project makes positive contribute 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, no net harm on local environment and social community has been detected for the project.

2.2 Local Stakeholder Consultation

LSC prior to the project implementation

Local stakeholder consultation has been conducted in July 2006. All comments received have been well addressed. Please refer to section E of the registered PD (version 3.0 dated 14-Nov-2007) of the project for detailed information.

In conclusion, there was no significant negative comments received in the project preparation stage.

LSC during the operation period

Communications with Local stakeholders have been carried out at periodic intervals. Key implementation schedules and changes of the project have been communicated to the local authority, the neighbourhood committee, and local residents. The comments and suggestions from residents were collected by the local authority, if any.

The project owner carried out questionnaire survey for the local stakeholders to collect the relevant comments and suggestions every two years, e.g., in June 2012, July 2014 and May 2016 during this monitoring period. The local authority also conducts spot checks on the implementation of the project at periodic intervals as per relevant regulations. There have been no negative comments received for the project so far.

In line with VCS requirements all the processes have been implemented to receive comments from local stakeholders as well as communicate with them at periodic intervals.

2.3 AFOLU-Specific Safeguards

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

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

67 sets of 750 kW wind turbines (Type S48/750) have been installed by the project, which amounts to a total installed capacity of 50.25MW. Each wind turbine has a 690V-to-35kV transformer. 33 sets of wind turbine link to one 35kV line and the other 34 sets of turbine link to the other 35kV line. Two 35kV lines link into the on-site 220kV main transformer at the project site. By the 220kV line, the electricity generated by the project is delivered to the power grid. One 10kV backup line is used to additional electricity imported from the grid in case of emergency.

During this monitoring period, the project was implemented in accordance with the registered VCS PD and the revised monitoring plan approved by EB. The Project has operated without any accidental or emergency events that might impact the GHG emission reductions or removals and monitoring.

3.2 Deviations

3.2.1 Methodology Deviations

There is no methodology deviation in this monitoring period.

3.2.2 Project Description Deviations

The project is registered under VCS Version 2007.1 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 1st crediting period of the project should be updated from “01-Jan-2007 to 23-April-2008”³ to “01-Jan-2007 to 31-Dec-2016”.

The deviation of the crediting period does not impact the applicability of the methodology, additionality or the appropriateness of the baseline scenario.

A revised monitoring plan has been approved by EB on 16-Aug-2010. According to the revised monitoring plan, the electricity exported to and imported from the grid through the main line are monitored by the two main meters (accuracy degree of 0.2S) installed on the two 35kV lines.

³ stated in the monitoring report of the first VCS monitoring period (01-Jan-2007 to 23-April-2008)

Meanwhile, the electricity imported from the grid through the 10kV backup line is monitored by the meter (accuracy degree of 1.0) installed on the 10kV backup line.

During this monitoring period, the monitoring activity was carried out in compliance with the revised monitoring plan. Details of the data and parameters monitored please refer to Section 4 below.

The deviation of the monitoring plan has no impacts on the applicability of the methodology, additionality, or the appropriateness of the baseline scenario as well as the accuracy and conservativeness of monitoring plan and ER calculation. There is no other project description deviation occurred in this monitoring period or a previous monitoring period.

3.3 Grouped Projects

Not applicable as this is not a grouped project.

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

Data / Parameter	EF _y
Data unit	tCO ₂ /MWh
Description	Combined margin CO ₂ emission factor of the power grid in year y
Source of data	Registered PD
Value applied	1.1459
Justification of choice of data or description of measurement methods and procedures applied	Determined ex-ante and fixed for the 1 st crediting period
Purpose of Data	Calculation of baseline emissions
Comments	Determined ex-ante and fixed for the 1 st crediting period

4.2 Data and Parameters Monitored

Data / Parameter	EG _y
Data unit	MWh
Description	Net electricity delivered to the grid by the project
Source of data	Onsite measurement of electricity meters M1, M2 and backup line meter
Description of measurement methods	The net electricity EG _y is obtained through the electricity exported to the

and procedures to be applied	grid subtract the electricity imported from the grid.		
Frequency of monitoring/recording	Electricity exported to and imported from the main lines can be measured by two main meters M1 and M2 installed at the two 35kV lines in the 220kV substation. The 10kV backup line meter is used to monitor additional electricity imported from the grid in case of emergency.		
Value monitored	Continuously measured and monthly recorded		
Monitoring equipment	434,933.639		
	Monitoring equipment	M1	M2
	Type	DTSD858	DTSD858
	Serial No.	2010-84021353	2010-84021357
	Accuracy	0.2S	0.2S
	Calibration frequency	Annually	Annually
	Calibration date	25-Apr-2012 23-Apr-2013 22-Apr-2014 22-Apr-2015 20-Apr-2016	25-Apr-2012 23-Apr-2013 22-Apr-2014 22-Apr-2015 20-Apr-2016
	Calibration validity	24-Apr-2013 22-Apr-2014 21-Apr-2015 21-Apr-2016 19-Apr-2017	24-Apr-2013 22-Apr-2014 21-Apr-2015 21-Apr-2016 19-Apr-2017
QA/QC procedures to be applied	10kV backup line meter		
	Electricity meters M1 and M2 (with an accuracy degree of 0.2S) and backup line meter (with an accuracy degree of 1.0) have been properly calibrated annually according to the requirement from Technical administrative code of electric energy metering (DL/T448). Meter readings crosschecked with electricity sales receipts. All data and records to be achieved for at least 2 years after the end of last crediting period.		
Purpose of the data	Calculation of baseline emissions		
Calculation method	EG _y = Electricity Exported through 35KV lines - Electricity Imported through 35KV lines - Electricity Imported through 10kV backup line		
Comments	-		

4.3 Monitoring Plan

Organizational structure

The organizational structure and responsibilities of the personnel is shown as follows:

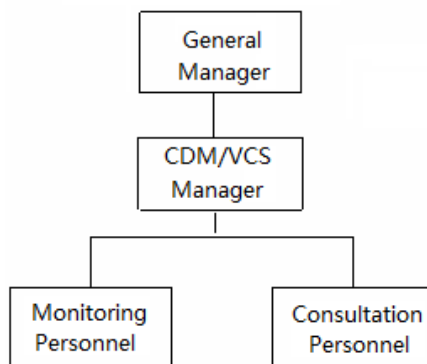


Figure 2 Organizational structure

The General Manager is in general control and makes key decisions. The VCS Manager is responsible for the daily operation of the monitoring team, contact with VVB to support their work in validation and verification. The VCS Manager is also responsible for Monitoring Data internal audit and settlement of Data uncertainties.

The Monitoring Personnel is responsible for reading and calibration of the meter, recording of the readings, and reporting of readings to local electric power company.

The Consultation Personnel is responsible for emission reduction calculation and monitoring report writing.

The monitoring Personnel has all received sufficient training in terms of monitoring and verification. They have received general training on wind power project operation organized by the project owner, including reading and calibration of meters, recording of meter readings, and reporting of readings. They all have the professional qualifications of operation and maintenance in electricity power industry. Furthermore, they have also received CDM/VCS training organized by the project owner.

Monitoring equipment

Two main meters (M1 and M2) with accuracy of 0.2S have been installed at two 35KV lines in the 220kV substation to measure the electricity exported to and imported from the local grid. One meter with accuracy of 1.0 was installed at the 10kV backup line by the grid company to monitor additional electricity imported from the grid in case of emergency.

The readings of all electricity meters are continuously measured and monthly recorded.

The net electricity EG_y is obtained through the electricity exported to the grid subtract the electricity imported from the grid. Detailed as follows:

$EG_y = \text{Electricity Exported through 35KV lines} - \text{Electricity Imported through 35KV lines} - \text{Electricity Imported through backup line}$

The installation of electricity meters is shown in the figure below:

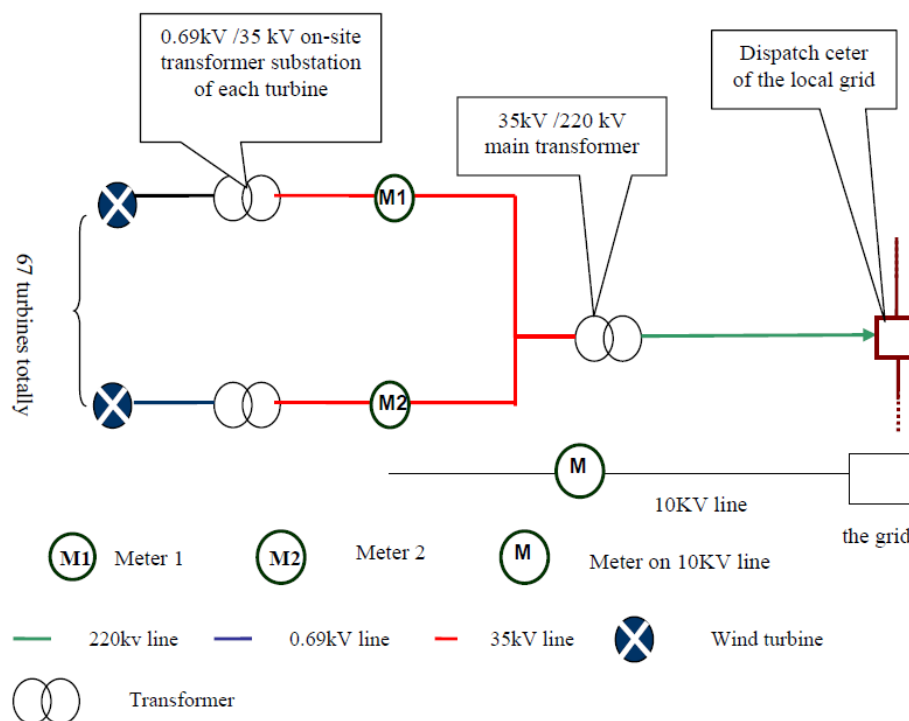


Figure 3 Installation of electricity meters

Data collection

The readings of all electricity meters are continuously measured and monthly recorded. The designated personnel of the project proponent recorded the meters' readings of electricity exported through 35KV lines and electricity imported through 10kV backup line at 24:00 on the last day of every month, while the meter readings for electricity imported through 35KV lines were recorded at 00:00 on one day from 1st to 10th of each month determined by the grid company. The meter readings for electricity imported through 35KV lines at 00:00 of 1st January of every year were also recorded. After confirming the readings by both sides, the grid company issues the sales receipts based on the checked electricity amount. The sales receipts are used for double checking purpose to ensure consistency.

Data are archived for 2 years following the end of the crediting period by means of electronic and paper backup.

QA/QC and emergency procedure

All electricity meters have been calibrated annually by qualified entity as per the requirement of Technical administrative code of electric energy metering (DL/T448). Sales receipts are used to crosscheck with meter readings, and conservative values are applied for emission reduction calculation.

In case of emergency, e.g., malfunctioning of electricity meters, project owner and the grid company shall use the self-carried meters of wind turbines to determine a conservative value of

the electricity supplied to the grid. The electricity meters shall be repaired or changed in a timely manner. The emission reduction during malfunctioning of electricity meters will not be claimed. No emergency occurred during this monitoring period.

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:

$$BE_y = EG_y \times EF_y$$

Where,

BE_y Baseline emissions in year y (t CO₂e)

EG_y Net electricity delivered to the grid by the project (MWh)

EF_y Baseline emission factor in the year y (tCO₂e/MWh)

The baseline emissions of the project are calculated as follows:

Table 2 Calculation of Baseline emissions

Year	EG_y (MWh)	EF_y (tCO ₂ /MWh)	BE_y (tCO ₂)
01-May-2012 to 31-Dec-2012	58,451.314	1.1459	66,979
01-Jan-2013 to 31-Dec-2013	103,748.090	1.1459	118,884
01-Jan-2014 to 31-Dec-2014	91,579.807	1.1459	104,941
01-Jan-2015 to 31-Dec-2015	91,694.057	1.1459	105,072
01-Jan-2016 to 31-Dec-2016	89,460.371	1.1459	102,512
Total	434,933.639	-	498,388

The monitored EG_y is reported in the tables below.

Monitored values of electricity exported through 35kV transmission lines and electricity imported from 10kV backup line

Period		Electricity exported through 35kV transmission line					Electricity imported from 10KV backup line		
		Monthly Recording Data (MWh)			Values from sales receipts (MWh)	Conservative Values (MWh)	Monthly Recording Data (MWh)	Values from sales receipts (MWh)	Conservative Values (MWh)
From	To	M1 (A1)	M2 (A2)	A=A1+A2	B	C=min(A,B)	D	E	F=max(D,E)
2012/5/1	2012/5/31	5,141.971	4,670.593	9,812.564	9,812.564	9,812.564	-	-	-
2012/6/1	2012/6/30	3,418.500	3,031.500	6,450.000	6,450.000	6,450.000	-	-	-
2012/7/1	2012/7/31	2,427.400	2,152.600	4,580.000	4,580.000	4,580.000	-	-	-
2012/8/1	2012/8/31	1,499.895	1,330.096	2,829.991	2,829.991	2,829.991	-	-	-
2012/9/1	2012/9/30	1,923.562	1,705.800	3,629.362	3,629.362	3,629.362	0.090	0.090	0.090
2012/10/1	2012/10/31	5,710.143	5,063.712	10,773.855	10,773.855	10,773.855	-	-	-
2012/11/1	2012/11/30	5,626.463	4,989.505	10,615.968	10,615.968	10,615.968	-	-	-
2012/12/1	2012/12/31	5,479.224	4,858.934	10,338.158	10,338.158	10,338.158	0.108	0.108	0.108
2013/1/1	2013/1/31	5,180.616	4,594.132	9,774.748	9,774.748	9,774.748	-	-	-
2013/2/1	2013/2/28	6,061.247	5,375.068	11,436.315	11,436.315	11,436.315	-	-	-
2013/3/1	2013/3/31	4,341.631	3,850.125	8,191.756	8,191.756	8,191.756	0.576	0.576	0.576
2013/4/1	2013/4/30	5,541.248	4,913.937	10,455.185	10,455.185	10,455.185	-	-	-
2013/5/1	2013/5/31	3,862.431	3,425.175	7,287.606	7,287.606	7,287.606	-	-	-
2013/6/1	2013/6/30	2,947.308	2,613.650	5,560.958	5,560.958	5,560.958	-	-	-
2013/7/1	2013/7/31	2,765.455	2,452.385	5,217.840	5,217.840	5,217.840	0.066	0.066	0.066
2013/8/1	2013/8/31	3,594.836	3,187.874	6,782.710	6,782.710	6,782.710	-	-	-
2013/9/1	2013/9/30	3,689.545	3,271.861	6,961.406	6,961.406	6,961.406	-	-	-
2013/10/1	2013/10/31	4,692.780	4,161.521	8,854.301	8,854.301	8,854.301	-	-	-
2013/11/1	2013/11/30	7,407.072	6,568.536	13,975.608	13,975.608	13,975.608	0.018	0.018	0.018
2013/12/1	2013/12/31	5,232.059	4,639.750	9,871.809	9,871.809	9,871.809	-	-	-
2014/1/1	2014/1/31	6,512.279	5,775.039	12,287.318	12,287.318	12,287.318	-	-	-
2014/2/1	2014/2/28	2,130.337	1,889.167	4,019.504	4,019.504	4,019.504	-	-	-
2014/3/1	2014/3/31	3,985.541	3,534.347	7,519.888	7,519.888	7,519.888	0.006	0.006	0.006

2014/4/1	2014/4/30	3,713.276	3,292.906	7,006.182	7,006.182	7,006.182	-	-	-
2014/5/1	2014/5/31	5,960.207	5,285.467	11,245.674	11,245.674	11,245.674	-	-	-
2014/6/1	2014/6/30	1,423.957	1,262.755	2,686.712	2,686.712	2,686.712	-	-	-
2014/7/1	2014/7/31	3,028.636	2,685.771	5,714.407	5,714.407	5,714.407	-	-	-
2014/8/1	2014/8/31	1,048.980	930.228	1,979.208	1,979.208	1,979.208	0.132	0.132	0.132
2014/9/1	2014/9/30	2,415.936	2,142.433	4,558.369	4,558.369	4,558.369	-	-	-
2014/10/1	2014/10/31	3,376.912	2,994.620	6,371.532	6,371.532	6,371.532	-	-	-
2014/11/1	2014/11/30	6,979.775	6,189.611	13,169.386	13,169.386	13,169.386	0.096	0.096	0.096
2014/12/1	2014/12/31	8,409.097	7,457.124	15,866.221	15,866.221	15,866.221	-	-	-
2015/1/1	2015/1/31	6,619.250	5,869.901	12,489.151	12,489.151	12,489.151	-	-	-
2015/2/1	2015/2/28	4,475.544	3,968.879	8,444.423	8,444.423	8,444.423	-	-	-
2015/3/1	2015/3/31	7,255.798	6,434.387	13,690.185	13,690.185	13,690.185	-	-	-
2015/4/1	2015/4/30	5,074.435	4,499.970	9,574.405	9,574.405	9,574.405	-	-	-
2015/5/1	2015/5/31	6,371.327	5,650.045	12,021.372	12,021.372	12,021.372	-	-	-
2015/6/1	2015/6/30	2,380.982	2,111.437	4,492.419	4,492.419	4,492.419	0.006	0.006	0.006
2015/7/1	2015/7/31	987.299	875.529	1,862.828	1,862.828	1,862.828	0.078	0.078	0.078
2015/8/1	2015/8/31	1,604.027	1,422.439	3,026.466	3,026.466	3,026.466	-	-	-
2015/9/1	2015/9/30	2,441.345	2,164.966	4,606.311	4,606.311	4,606.311	-	-	-
2015/10/1	2015/10/31	5,618.184	4,982.164	10,600.348	10,600.348	10,600.348	-	-	-
2015/11/1	2015/11/30	2,440.557	2,164.268	4,604.825	4,604.825	4,604.825	-	-	-
2015/12/1	2015/12/31	3,821.290	3,388.692	7,209.982	7,209.982	7,209.982	-	-	-
2016/1/1	2016/1/31	2,485.495	2,204.118	4,689.613	4,689.613	4,689.613	-	-	-
2016/2/1	2016/2/29	5,051.513	4,479.643	9,531.156	9,531.156	9,531.156	-	-	-
2016/3/1	2016/3/31	5,351.827	4,745.960	10,097.787	10,097.787	10,097.787	-	-	-
2016/4/1	2016/4/30	4,840.978	4,292.942	9,133.920	9,133.920	9,133.920	-	-	-
2016/5/1	2016/5/31	6,601.598	5,854.248	12,455.846	12,455.846	12,455.846	-	-	-
2016/6/1	2016/6/30	2,312.503	2,050.711	4,363.214	4,363.214	4,363.214	0.054	0.054	0.054
2016/7/1	2016/7/31	1,165.180	1,033.273	2,198.453	2,198.453	2,198.453	-	-	-
2016/8/1	2016/8/31	1,449.163	1,285.106	2,734.269	2,734.269	2,734.269	-	-	-
2016/9/1	2016/9/30	1,823.080	1,616.694	3,439.774	3,439.774	3,439.774	-	-	-

2016/10/1	2016/10/31	4,714.179	4,180.499	8,894.678	8,894.678	8,894.678	-	-	-
2016/11/1	2016/11/30	6,879.924	6,101.064	12,980.988	12,980.988	12,980.988	-	-	-
2016/12/1	2016/12/31	5,160.859	4,576.610	9,737.469	9,737.469	9,737.469	0.156	0.156	0.156
Subtotal 2012		-	-	59,029.898	59,029.898	59,029.898	-	-	0.198
Subtotal 2013		-	-	104,370.242	104,370.242	104,370.242	-	-	0.660
Subtotal 2014		-	-	92,424.401	92,424.401	92,424.401	-	-	0.234
Subtotal 2015		-	-	92,622.715	92,622.715	92,622.715	-	-	0.084
Subtotal 2016		-	-	90,257.167	90,257.167	90,257.167	-	-	0.210
Total		-	-	438,704.423	438,704.423	438,704.423	-	-	1.386

Monitored values of electricity imported from 35kV transmission lines and EG_y

Period		Electricity imported from 35kV transmission lines					EG _y (MWh)
		Monthly Recording Data (MWh)			Values from sales receipts (MWh)	Conservative Values (MWh)	
From	To	M1 (G1)	M2 (G2)	G=G1+G2	H	I=max(G,H)	J=C-F-I
2012/4/4	2012/5/3*	14.588	9.249	23.837	43.773	43.773	58,451.314
2012/5/4	2012/6/4	18.143	11.502	29.645	54.439	54.439	
2012/6/5	2012/7/4	23.400	14.836	38.236	70.215	70.215	
2012/7/5	2012/8/4	40.877	25.915	66.792	122.654	122.654	
2012/8/5	2012/9/3	34.360	21.784	56.144	103.101	103.101	
2012/9/4	2012/10/4	41.099	26.056	67.155	123.321	123.321	
2012/10/5	2012/11/4	8.812	5.587	14.399	26.442	26.442	
2012/11/5	2012/12/3	2.518	1.596	4.114	7.555	7.555	
2012/12/4	2012/12/31	8.960	5.681	14.641	26.886	26.886	103,748.090
2013/1/1	2013/2/3	10.811	6.855	17.666	32.441	32.441	
2013/2/4	2013/3/4	7.553	4.789	12.342	22.664	22.664	
2013/3/5	2013/4/2	8.664	5.493	14.157	25.997	25.997	
2013/4/3	2013/5/5	34.064	21.596	55.660	102.212	102.212	
2013/5/6	2013/6/3	15.329	9.719	25.048	45.995	45.995	
2013/6/4	2013/7/3	39.840	25.258	65.098	119.544	119.544	

2013/7/4	2013/8/3	37.100	23.521	60.621	111.322	111.322	
2013/8/4	2013/9/24	12.589	7.981	20.570	37.774	37.774	
2013/9/25	2013/10/4	5.924	3.756	9.680	17.776	17.776	
2013/10/5	2013/11/7	16.958	10.751	27.709	50.884	50.884	
2013/11/8	2013/12/9	4.962	3.145	8.107	14.887	14.887	
2013/12/10	2013/12/31	13.329	8.450	21.779	39.996	39.996	
2014/1/1	2014/2/8	12.663	8.028	20.691	37.996	37.996	91,579.807
2014/2/9	2014/3/9	27.325	17.324	44.649	81.992	81.992	
2014/3/10	2014/4/8	28.066	17.793	45.859	84.214	84.214	
2014/4/9	2014/5/8	23.770	15.071	38.841	71.326	71.326	
2014/5/9	2014/6/8	17.032	10.798	27.830	51.106	51.106	
2014/6/9	2014/7/9	39.988	25.352	65.340	119.988	119.988	
2014/7/10	2014/8/7	28.881	18.310	47.191	86.658	86.658	
2014/8/8	2014/9/8	37.026	23.474	60.500	111.100	111.100	
2014/9/9	2014/10/8	37.026	23.474	60.500	111.100	111.100	
2014/10/9	2014/11/8	19.253	12.207	31.460	57.772	57.772	
2014/11/9	2014/12/8	4.443	2.816	7.259	13.332	13.332	
2014/12/9	2014/12/31	5.924	3.756	9.680	17.776	17.776	
2015/1/1	2015/2/8	19.253	12.207	31.460	57.772	57.772	91,694.057
2015/2/9	2015/3/8	11.108	7.042	18.150	33.330	33.330	
2015/3/9	2015/4/8	14.810	9.390	24.200	44.440	44.440	
2015/4/9	2015/5/8	19.253	12.207	31.460	57.772	57.772	
2015/5/9	2015/6/8	10.368	6.573	16.941	31.108	31.108	
2015/6/9	2015/7/8	39.988	25.352	65.340	119.988	119.988	
2015/7/9	2015/8/8	40.729	25.821	66.550	122.210	122.210	
2015/8/9	2015/9/8	65.166	41.314	106.480	195.536	195.536	
2015/9/9	2015/10/8	24.437	15.493	39.930	73.326	73.326	
2015/10/9	2015/11/8	25.918	16.431	42.349	77.770	77.770	
2015/11/9	2015/12/8	27.399	17.371	44.770	82.214	82.214	
2015/12/9	2015/12/31	11.034	6.995	18.029	33.108	33.108	

2016/1/1	2016/1/31	14.885	9.436	24.321	44.662	44.662	89,460.371
2016/2/1	2016/3/6	20.809	13.192	34.001	62.438	62.438	
2016/3/7	2016/4/6	24.067	15.258	39.325	72.215	72.215	
2016/4/7	2016/5/6	32.879	20.845	53.724	98.657	98.657	
2016/5/7	2016/6/6	15.625	9.906	25.531	46.884	46.884	
2016/6/7	2016/7/6	38.433	24.366	62.799	115.322	115.322	
2016/7/7	2016/8/6	23.993	15.211	39.204	71.993	71.993	
2016/8/7	2016/9/6	18.217	11.549	29.766	54.661	54.661	
2016/9/7	2016/10/6	37.766	23.944	61.710	113.322	113.322	
2016/10/7	2016/11/6	22.660	14.366	37.026	67.993	67.993	
2016/11/7	2016/12/6	13.107	8.310	21.417	39.329	39.329	
2016/12/7	2016/12/31	3.036	1.925	4.961	9.110	9.110	
Subtotal 2012		-	-	314.963	578.386	578.386	58,451.314
Subtotal 2013		-	-	338.437	621.492	621.492	103,748.090
Subtotal 2014		-	-	459.800	844.360	844.360	91,579.807
Subtotal 2015		-	-	505.659	928.574	928.574	91,694.057
Subtotal 2016		-	-	433.785	796.586	796.586	89,460.371
Total		-	-	2,052.644	3,769.398	3,769.398	434,933.639

Note:

*The electricity imported from 35kV transmission lines for the three days from 01-May-2012 to 03-May-2012 was settled in the reading records and sales receipts of the period from 04-April-2012 to 03-May-2012. To be conservative, the electricity imported for the whole period from 04-April-2012 to 03-May-2012 was included in the emission reductions calculation.

** The electricity imported from 35kV transmission lines for the project was settled together with another VCS project (VCS ID 150) in the same monthly sales receipts, to be conservative, all the imported electricity for the two projects on sales receipts was included for crosscheck with meter readings.

5.2 Project Emissions

As per the applied methodology, the project emission is zero.

5.3 Leakage

As per the applied methodology, leakage of the project is not considered.

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)
2012 01-May-2012 to 31-Dec-2012	66,979	0	0	66,979
2013 01-Jan-2013 to 31-Dec-2013	118,884	0	0	118,884
2014 01-Jan-2014 to 31-Dec-2014	104,941	0	0	104,941
2015 01-Jan-2015 to 31-Dec-2015	105,072	0	0	105,072
2016 01-Jan-2016 to 31-Dec-2016	102,512	0	0	102,512
Total	498,388	0	0	498,388

Comparison of actual emission reduction and the estimation in the registered PD.

Period	Emission reduction achieved (tCO ₂)	Estimated ER in registered PD (tCO ₂)	Difference
01-May-2012 to 31-Dec-2016	498,388	647,363	-23.01%

The actual emission reduction achieved during this monitoring period is 23.01% lower than the estimation for the same period in the registered PD. The reason which causes the decrease is that wind resource fluctuations and the grid absorption capacity.