



KALADONGER WIND POWER PROJECT IN RAJASTHAN



Document Prepared by Infinite Solutions

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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The project activity envisages implementation of a 75.6 MW wind power project consisting of 36 Wind Turbine Generators (WTGs) of individual capacity 2.1 MW, at Kaladonger village in Rajasthan, India by M/s Bindu Vayu Urja Private Limited (BVUPL).

The electricity generated by the project is exported to the NEWNE (Now INDIAN) electricity grid. The project activity is therefore displace an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid.

The project activity helps to reduce the supply demand gap in the state and also helps in contributing to the sustainable development by using wind energy as the source of power generation and reduction of GHG Emissions. In the project site, there are other wind projects owned by other customers connected to the same substation. There is an apportioning procedure which is approved by the state nodal agency for apportioning the electricity to each and every customer. The project uses Suzlon's wind energy technology. The project activity implements S95 model 2.1MW WTGs.

The total VCU's generated achieved during this monitoring period is 87,819 tCO₂e.

1.2 Sectoral Scope and Project Type

The project activity falls under

Sectoral Scope : 01 - Energy industries (renewable / non-renewable sources)

Project Type : I - Renewable Energy Projects

Title : Consolidated baseline methodology for grid-connected electricity generation from renewable sources

Reference : Approved consolidated baseline and monitoring methodology ACM0002, Version 12.3.0¹

1.3 Project Proponent

Organization name	Bindu Vayu Urja Private Limited
Contact person	Mr. Ramesh Kure

¹ <https://cdm.unfccc.int/Projects/DB/RWTUV1356681143.52/view>

Title	Manager
Address	1st Floor, 8001, 8th Floor, Q-City, Nanakramguda, Gachibowli Hyderabad 500032, Telangana, INDIA
Telephone	+91 99075 34900
Email	cleancredits@mytrah.com

1.4 Other Entities Involved in the Project

Organization name	Infinite Solutions
Role in the Project	Carbon Consultant
Contact person	Richa Thakur
Title	Project Manager
Address	214-215 Milinda Manor, Opp. Next Treasure Island, 2 RNT Marg, Indore- 452001
Telephone	+91-731-4050174
Email	richa@infisolutions.org

1.5 Project Start Date

The project start date for this project is said to be 18-February-2012. This is because the first WEG was commissioned as on the said date.

1.6 Project Crediting Period

The project is registered under Clean Development Mechanism (CDM) of UNFCCC with 10 years crediting period (Reference No: 9342) on 31-Dec-2012² Crediting period of the project under CDM starts on 31-December-2012 and ends on 30-December-2022.

The project has begun generating GHG emission reductions from 18-February-2012. Hence, crediting period for VCS begins on 18-February-2012 and ends on 17-February-2022 considering 10 years fixed crediting period.

The project proponent will also not claim GHG emission reductions under two schemes for the same period

² <https://cdm.unfccc.int/Projects/DB/RWTUV1356681143.52/view>

1.7 Project Location

The project activity is located in Kaladonger Site of Jaisalmer District Rajasthan State, India.

The location of WEGs is as given below:-

S. No.	Loc. No.	LATITUDE			LONGITUDE		
1.	KD-001	27	5	35.4	70	59	59
2.	KD-002	27	5	54.9	70	59	53.5
3.	KD-003	27	6	16.8	70	59	54.4
4.	KD-004	27	6	27.3	70	59	42.5
5.	KD-005	27	6	38.7	70	59	30.8
6.	KD-006	27	6	49.8	70	59	18.6
7.	KD-007	27	7	1.7	70	59	4.3
8.	KD-012	27	7	26.1	70	59	48
9.	KD-013	27	7	14.1	70	59	59.1
10.	KD-014	27	7	1.8	71	0	9.9
11.	KD-024	27	7	9.5	71	2	4.5
12.	KD-027	27	7	36.3	71	1	28.8
13.	KD-028	27	7	41.5	71	1	13
14.	KD-029	27	7	51.5	71	0	54.8
15.	KD-030	27	7	54.5	71	0	33.3
16.	KD-035	27	8	40.9	71	0	46.3
17.	KD-036	27	8	34.2	71	1	3.8
18.	KD-037	27	8	27.5	71	1	23.9
19.	KD-038	27	8	17.6	71	1	39.8
20.	KD-039	27	8	10.4	71	1	56.5
21.	KD-040	27	7	59.8	71	2	4.9
22.	KD-054	27	8	22.4	71	2	59.3
23.	KD-055	27	8	30.7	71	2	49.9
24.	KD-056	27	8	38.2	71	2	38.8
25.	KD-057	27	8	45.1	71	2	26.5
26.	KD-058	27	8	52.9	71	2	6.3
27.	KD-059	27	9	2.5	71	1	51.7
28.	KD-060	27	9	11	71	1	31.3
29.	KD-061	27	9	17	71	1	17.4
30.	KD-067	27	9	21.4	71	2	54.1
31.	KD-068	27	9	14.6	71	3	9.3
32.	KD-076	27	8	23.5	71	4	55.5
33.	KD-077	27	8	39.3	71	4	47.2
34.	KD-078	27	8	48.3	71	4	31.9

35.	KD-079	27	9	2.9	71	4	29.8
36.	KD-082	27	7	44.8	71	2	35.6

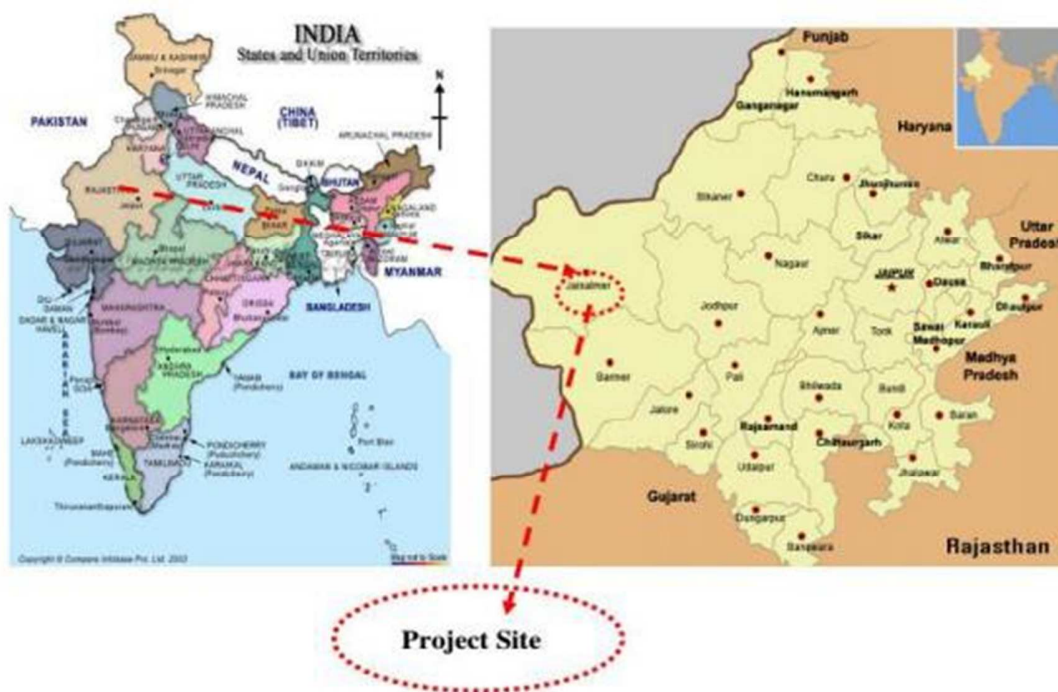


Figure 1. Location of the plant

1.8 Title and Reference of Methodology

Title: Consolidated baseline methodology for grid-connected electricity generation from renewable sources.

Methodology applied is ACM 0002, version 12.3.0³

1.9 Participation under other GHG Programs

The PP has participated under CDM mechanism of UNFCCC. The UN reference id 9342⁴ of program with this project activity.

³ <https://cdm.unfccc.int/methodologies/DB/C505BVV9P8VSNNV3LTK1BP3OR24Y5L>

⁴ <https://cdm.unfccc.int/Projects/DB/RWTUV1356681143.52>

The PP would not consider the credit from any other mechanism for the current monitoring plan. The undertaking is provided to confirm that there is no any double accounting for current monitoring period.

1.10 Other Forms of Credit

- Emission Trading Programs and Other Binding Limits: The PP has not applied this project in any Emission Trading Programs and other Binding Limits.
- Other Forms of Environmental Credit: The PP has not applied this project in any other form of environmental credits or for REC benefits. PP not participating for REC benefits can be verified from this link-
https://www.recregistryindia.nic.in/index.php/publics/accredited_regens

1.11 Sustainable Development Contributions

The main purpose of this project activity is to generate clean form of electricity through renewable Wind energy source for sale of electricity to the grid. The project activity involves 75.6 MW wind power project consisting of 36 Wind Turbine Generators (WTGs) of individual capacity 2.1 MW, at Kaladonger village in Rajasthan, India



For SDG 7: Project proponent is committed towards generating clean energy. Hence, about 92,179 MWh renewable electricity has supplied to Indian grid during the reported monitoring period that helps to increase the renewable energy share in the energy mix.



For SDG-13: Project proponent has shown leadership in workplaces and in their communities by advocating climate action consistent with the science. Hence, by supplying 92,179 MWh clean electricity to Indian grid, the project avoided release of 87,819 tCO₂ in to the atmosphere during the reporting period.

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	About 92,179 MWh, renewable electricity has supplied to Indian grid during the reported period that helps to increase the renewable energy share in the energy mix.	Since Commissioning, about 1,086,134.76 MWh renewable electricity has supplied to Indian grid that helps to increase the renewable energy share in the energy mix
2)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	By supplying 92,179 MWh clean electricity to Indian grid, the project avoided release of 87,819 tCO ₂ in to the atmosphere during the reporting period.	Prevented the release of 1,039,150 Tonnes of carbon in the atmosphere

2 SAFEGUARDS

2.1 No Net Harm

The project does not involve any potential negative environmental and socio economic impacts and hence this criterion is not applicable to this project activity.

2.2 Local Stakeholder Consultation

As a part of continual improvement process, feedback from the associated stakeholders is vital, therefore a dedicated Visitor register cum grievance register has been placed at the project site which is accessible to stakeholders to provide their feedback on the project. It is appropriate publicly accessible location at which local stakeholders can provide their feedback on the project. This location is also conducive to continuous and regular checks for stakeholder comments. For the global stakeholders, the suggestion and the grievance can be submitted to mail@mytrah.com

Stakeholder meetings are organized on regular intervals in order to identify the major challenges around the area, stakeholders are invited well in advance through printed invitation, calls, meeting and a notice is placed around the local common areas. Various CSR activities around site are carried out with proper stakeholder requirements meeting. The stakeholders are also requested to share their experiences and grievances on continuous basis. Registers is used to records the grievances and feedback. During the current monitoring period, positive feedbacks had been received regarding site operation. No any negative grievances received during the current monitoring period, therefore, no any mitigation measures were required. In case of grievances, the nature of probable resolution is discussed with the plant head office and implemented by the site incharge.

2.3 AFOLU-Specific Safeguards

This section is not applicable here as the project activity is a non-AFOLU project activity.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

Power generation using wind is achieved by deploying 36 wind turbine generators (WTGs). Wind power generation is an environmentally safe and sound technology. The WTGs supplied by Suzlon Energy Limited to the project participant. The components were manufactured in India and assembled at the project site. There is no transfer of technology from outside the host country for this project activity.

The project uses Suzlon's wind energy technology and implements 36 number of WTGs of S95 model with a capacity of 2100 kW each. The technical details are shown below:

The technical specification of the WTG is as follows-

OPERATING DATA	
Rated power	2100 KW
Rotor speed	12.1 to 17.6 rpm
Power regulation	Active pitch regulated
Cut-in wind speed	3.5 meter/second
Rated wind speed	11 meter/second
Cut-off wind speed	25 meter/second
Restart wind speed	23 meter/second
Wind class	IEC IIA
Estimated service life	20 years
Ambient temperature range-operation	-10° to + 40° C
A factor	9.59 m/s
ROTOR DATA	
Diameter	95 meter
Rotor cone angle	5°
Rotor speed at rated power	15.83 rpm
Tip speed at rated power	78.7 m/s
Swept area	7085 metre ²
BLADES	
Type	SUZLON SB46
Length	46.3 m
Material	Glass fibre reinforced plastic/ Epoxy
GENERATOR	
Type	Asynchronous 3 phase induction
Rated power	2.1 MW
Number of poles/Synchronous speed	4/1500 rpm
Frequency	50 Hz
Rated generator speed	1568 rpm
TOWER	
Type	Tubular steel tower
Tower Height	80 m

No events or situations happened during the reported monitoring period that can alter the applicability of the applied methodology.

The commissioning schedule of the respective WTGs are as follows:

S. No.	Make	WEG-HTSC No.	Commissioned on
1.	Suzlon	KD01	20-July-2012
2.	Suzlon	KD02	20-July-2012
3.	Suzlon	KD03	20-July-2012
4.	Suzlon	KD04	20-July-2012
5.	Suzlon	KD05	20-July-2012
6.	Suzlon	KD06	20-July-2012
7.	Suzlon	KD07	20-July-2012
8.	Suzlon	KD58	30-March-2012
9.	Suzlon	KD27	30-March-2012
10.	Suzlon	KD28	30-March-2012
11.	Suzlon	KD12	31-March-2012
12.	Suzlon	KD13	31-March-2012
13.	Suzlon	KD14	31-March-2012
14.	Suzlon	KD24	23-March-2012
15.	Suzlon	KD40	23-March-2012
16.	Suzlon	KD78	23-March-2012
17.	Suzlon	KD76	28-March-2012
18.	Suzlon	KD67	28-March-2012
19.	Suzlon	KD29	28-March-2012
20.	Suzlon	KD54	27-March-2012
21.	Suzlon	KD77	27-March-2012
22.	Suzlon	KD68	27-March-2012
23.	Suzlon	KD79	27-March-2012
24.	Suzlon	KD30	27-March-2012
25.	Suzlon	KD35	14-March-2012
26.	Suzlon	KD37	14-March-2012
27.	Suzlon	KD39	14-March-2012
28.	Suzlon	KD59	14-March-2012
29.	Suzlon	KD60	14-March-2012
30.	Suzlon	KD61	14-March-2012
31.	Suzlon	KD57	14-March-2012
32.	Suzlon	KD36	18-February-2012
33.	Suzlon	KD38	25-March-2012
34.	Suzlon	KD55	25-March-2012
35.	Suzlon	KD56	25-March-2012
36.	Suzlon	KD82	10-September-2012

3.2 Deviations

3.2.1 Methodology Deviations

There is no request for deviation applied during this monitoring or previous monitoring period.

3.2.2 Project Description Deviations

Deviation 1

PP has requested for deviation regarding inconsistency in title of this project activity from registered VCS PD. In registered VCS PD, the title was incorrectly mentioned as "Kalandonger wind power project in Rajasthan" while the correct title is "Kaladonger Wind Power Project in Rajasthan".

3.3 This deviation was approved in monitoring period of 01-April-2020 to 31-May-2021, Grouped Projects

.This project activity is not a grouped project activity.

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

Data / Parameter	EF _{grid,OMsimple,y}
Data unit	tCO ₂ /MWh
Description	Operating margin CO ₂ emission factor of NEWNE (Now INDIAN) grid.
Source of data	Central Electricity Authority:CO ₂ Emission Database CEA CO ₂ Baseline database Version 07 ⁵
Value applied	0.9841
Justification of choice of data or description of measurement methods and procedures applied	The operating margin emission factor data has been deduced from CO ₂ database. CEA CO ₂ Baseline database Version 07
Purpose of Data	Calculation of baseline emissions
Comments	The operating margin emission factor is a 3-year generation-weighted average (2008-11). Data calculated to be 0.9841. The operating Margin is calculated ex ante and fixed during the crediting period.

⁵ <https://cea.nic.in/cdm-co2-baseline-database/?lang=en#odmk>

Data / Parameter	$EF_{grid,BM,Y}$
Data unit	tCO ₂ /MWh
Description	Build margin CO ₂ emission factor of NEWNE (Now INDIAN) grid.
Source of data	Central Electricity Authority:CO ₂ Emission Database CEA CO ₂ Baseline database Version 07
Value applied	0.8587
Justification of choice of data or description of measurement methods and procedures applied	The operating margin emission factor data has been deduced from CO ₂ database. CEA CO ₂ Baseline database Version 07
Purpose of Data	Calculation of baseline emissions
Comments	The build Margin would be calculated ex-ante and fixed during the crediting period. For ex-ante calculation the most recent data available has been used and the build margin thus calculated is 0.8587

Data / Parameter	$EF_{grid,CM,Y}$
Data unit	tCO ₂ /MWh
Description	Combined margin CO ₂ emission factor of NEWNE (Now INDIAN) grid.
Source of data	Central Electricity Authority:CO ₂ Emission Database CEA CO ₂ Baseline database Version 07
Value applied	0.9527
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per the procedures in “Tool to calculate the emission factor for an electricity system” based on CEA data.
Purpose of Data	Calculation of baseline emissions
Comments	The combined margin would be calculated ex-ante and fixed for the entire crediting period and the combined margin thus calculated is 0.9527.

4.2 Data and Parameters Monitored

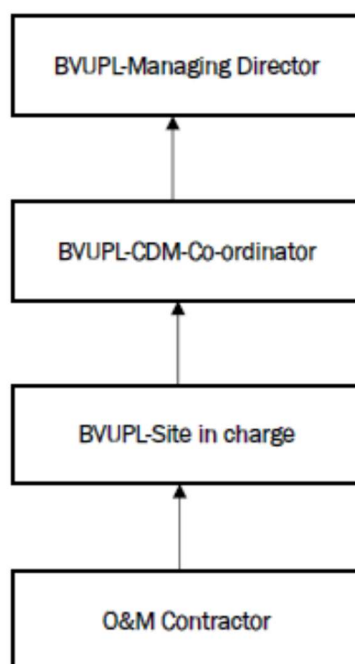
Data / Parameter	EG _{facility,y}						
Data unit	MWh						
Description	Quantity of net electricity exported to the grid during the year y.						
Source of data	Monthly billing records issued by JVVNL						
Description of measurement methods and procedures to be applied	Net electricity supplied is calculated based on the difference between calculated values of “export” and calculated value “import” on the JVVNL energy meter at the common evacuation point and the percentage transmission loss as prescribed in the PPA for metering at 220 kV. All the data items monitored under the monitoring plan will be archived for entire crediting period or till the last issuance of VER/CERs for this project activity whichever occurs later. Calibration Frequency: All Energy meters are tested for accuracy at least once in a year. The accuracy class of the energy meter is 0.2s						
Frequency of monitoring/recording	Measuring frequency: Continuous Reading frequency: Daily Recording frequency:						
Value monitored	<table border="1"> <tr> <td>For year 2021</td><td>84,784.57 MWh</td></tr> <tr> <td>For year 2022</td><td>7,394.83 MWh</td></tr> <tr> <td>Total</td><td>92,179.40 MWh</td></tr> </table>	For year 2021	84,784.57 MWh	For year 2022	7,394.83 MWh	Total	92,179.40 MWh
For year 2021	84,784.57 MWh						
For year 2022	7,394.83 MWh						
Total	92,179.40 MWh						
Monitoring equipment	Energy meters of 0.2s accuracy class						
QA/QC procedures to be applied	Net electricity supplied to the grid by the project activity is cross checked with invoices submitted to JVVNL.						
Purpose of the data	Calculation of baseline emissions						
Calculation method	Net electricity supplied to the grid by the project activity is cross checked with invoices submitted to JVVNL.						

Comments

The data will be archived for two years after the end of the last crediting period or till the last issuance of VERs of the project activity, whichever is later

4.3 Monitoring Plan

The organisational structure of this VCS project activity is as follows:



The project proponent has entered into agreement with the WTG- Supplier - Suzlon Energy Limited for the operation and maintenance of WTGs. The WTG supplier has dedicated and technically well-equipped O&M team⁶ for day-to-day Operation and maintenance of each WTG. O&M contractor provides a monthly report, which includes generation data, major breakdown events and machine availability. Site in-charge is responsible for recording of monthly Meter Readings of export and import. Monthly power export and import data is sent regularly to VCS coordinator of BVUPL. The detailed monitoring plan has been described in Annex 4 of the registered CDM PDD.

Measurement of Energy and Metering:

- Since there are power producers other than the project proponent injecting electricity

produced by them using the common evacuation / injection system and through the common metering equipment, Suzlon Energy Limited has been identified 'as the common agency responsible for joint metering.

- The joint meter reading taken at the common evacuation / injection system is supported by controller readings of individual power producers using the common evacuation / injection system.
- WTG controller meter does not require calibration due to the following reason: "The Controller is a micro processor based intelligent device which has been specially designed for the control of wind turbines. It uses a Woodward Multi function Reply that has three current inputs from CT and three direct voltage inputs (690 Volts). The analog values of current /voltage are converted to digital signal internally using AD convertors at very high sampling rates. A software program reads these values and displays instantaneous parameters such as voltage, current, power factor, kVAh, kVArh and kWh. These instantaneous values are then time integrated and displayed/stored. Woodward rely does not have a display and needs special protocol to view energy readings as this rely communicates digital signal through special communication protocol hence; it is not possible to calibrate. Moreover, turbine cannot run without this relay hence it cannot be removed for calibration during operation"
- Based on this breakup, limited to the total energy injection, net electricity exported by the project proponent is calculated below.

$$EJ_{PJ,y} = (Export - Import) \times (1 + \% \text{ transmission loss})$$

Where,

$$Export = \left(\frac{E_{Exp,feeder,i}}{E_{Gen,feeder,i}} \times E_{WTG,i} \right) - \left(\left(\sum E_{Exp,feeder,i} \right) - E_{Exp,sub-station} \right) \div \sum E_{Gen,feeder,i} \times E_{WTG,i}$$

$$Import = \left(\frac{E_{Imp,feeder,i}}{E_{Gen,feeder,i}} \times E_{WTG,i} \right) - \left(\left(\sum E_{Imp,feeder,i} \right) - E_{Imp,sub-station} \right) \div \sum E_{Gen,feeder,i} \times E_{WTG,i}$$

A schematic diagram indicating the metering system is provided below:

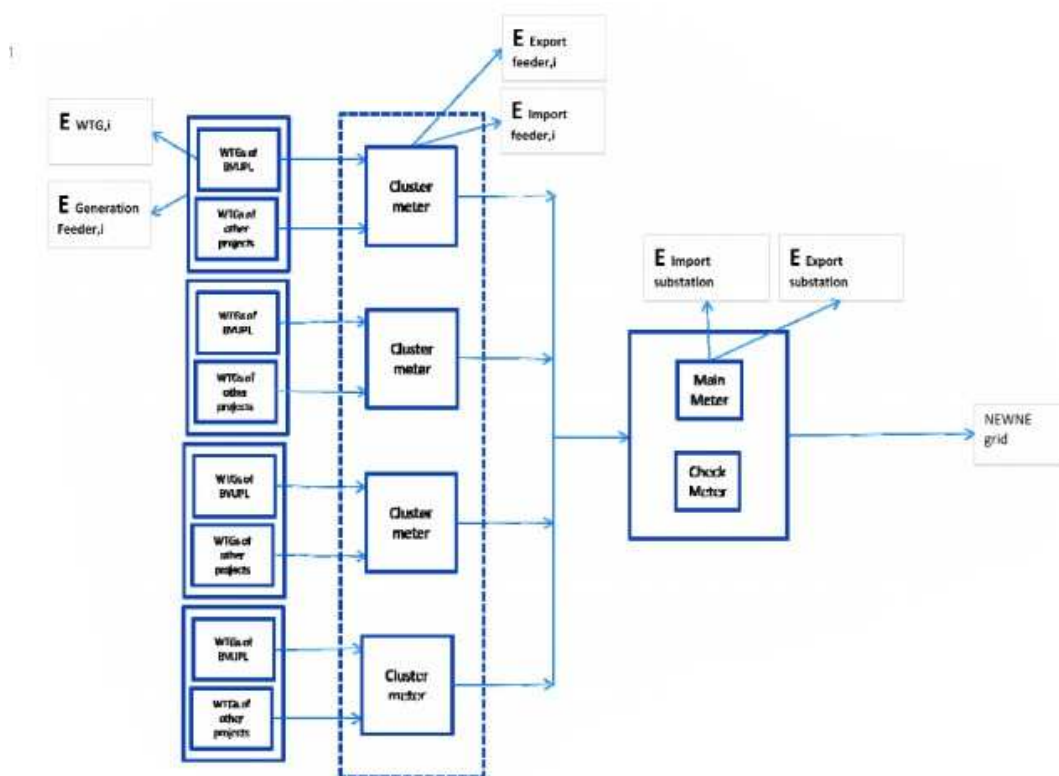


Figure 2. A Schematic diagram indicating the metering system

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

The baseline emissions are the product of electrical energy baseline $EG_{\text{facility},y}$ expressed in MWh of electricity produced by the renewable generating unit multiplied by the grid emission factor. Baseline emission factor is calculated as combined margin, consisting of a combination of operating margin (OM) and build margin (BM) factors.

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

Where:

BE_y : Baseline Emissions in year y; t CO₂

$EG_{facility,y}$:Energy baseline in year y; kWh

$EF_{grid,CM,y}$: Emission Factor in year y; t CO₂e/kWh

As per registered CDM PDD, combined margin emission factor is 0.9527 tCO₂ /MWh. Hence the baseline emissions for the project activity for the current monitoring period are as follows.

$$BE_y = EG_{facility,y} * EF_{CO2}$$

For year 2021

$$=84,784.57 * 0.9527 = 80,774 \text{ tCO}_2\text{e (round down values)}$$

For year 2022

$$=7,394.83 * 0.9527 = 7,045 \text{ tCO}_2\text{e (round down values)}$$

$$\text{Total} = 87,819$$

5.2 Project Emissions

The project activity involves in harnessing wind power. So the emissions from the project are zero.

5.3 Leakage

The project activity is a Greenfield wind power project and there is no technology transfer with respect to this project activity. Hence the Leakage emissions for the project are zero.

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)
2021(1-June-2021 to 31-December-2021)	80,774	0	0	80,774
2022(1-January-2022 to 17-February-2022)	7,045	0	0	7,045

Total	87,819	0	0	87,819
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Considering the annual average emission reductions as per the registered PDD which is 126,817 tCO₂e per year, the number of days covered during the current monitoring period comes out to be 262 days, based upon which the estimated emission reductions attributed to this monitoring period comes out to be 91,030 tCO₂e values whereas the actual emission reductions achieved during the current monitoring period is 87,819 tCO₂. The actual VER is 3.53% lower than the estimated VER. This variation is majorly due to the variations in wind flow pattern, grid availability and other parameters which are not in the control of PP.

APPENDIX 1: CALIBRATION DETAILS

S. No	Meter Number	Meter Make	Accuracy Class	Date of calibration	Due date of calibration
1.	RJB90204 (Main meter GSS end)	Secure	0.2 s	12-February-2021	11-February-2022
2.	RJB90205 (Back- up meter GSS end)	Secure	0.2s	12-February-2021	11-February-2022

Feeder	Meter	Meter no	Make	Class	Date of calibration	Due date of calibration
Feeder 1	Main meter	UPP31774	Secure	0.2s	22-Feb-2021	21-Feb-2022
	Check meter	UPP31776	Secure	0.2s	22-Feb-2021	21-Feb-2022
Feeder 3	Main meter	UPP31766	Secure	0.2s	22-Feb-2021	21-Feb-2022
	Check meter	UPP31783	Secure	0.2s	22-Feb-2021	21-Feb-2022
Feeder 4	Main meter	RJB78190	Secure	0.2s	22-Feb-2021	21-Feb-2022
	Check meter	RJB78191	Secure	0.2s	22-Feb-2021	21-Feb-2022
Feeder 5	Main meter	RJB78196	Secure	0.2s	22-Feb-2021	21-Feb-2022
	Check meter	RJB78197	Secure	0.2s	22-Feb-2021	21-Feb-2022