



**Verified Carbon
Standard**

WIND POWER PROJECT BY GREEN INFRA WIND POWER GENERATION LIMITED



**INFINITE
SOLUTIONS**

Document Prepared by (Infinite Solutions)

Project Title	Wind Power Project by Green Infra Wind Power Generation Limited
Version	03
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Monitoring Period	01-Jul-2018 to 31-Jul-2020 (Inclusive of both the dates)
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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The purpose of the project activity is to generate clean electricity by harnessing the renewable wind energy.

The project activity involves the installation of 18 Wind Turbine Generators (WTGs) for generating the electricity, aggregated to capacity of 36 MW.

Name of the Investor: Green Infra Wind Power Generation Limited					
COD ¹	Cap of each WTG	No of WTGs	MW	Location	Usage
12-Aug-16	2 MW	5	10	Harappanahalli Taluk, Davanagere district, Karnataka.	Generated Electricity Supply to Group Captive consumers
21-Sep-16	2 MW	3	6		
02-Nov-16	2 MW	2	4		
13-Jan-17	2 MW	8	16		
	Total	18	36		

Project WTGs technical details has been provided under section 3.1 of the MR.

Thus, project activity generates clean electricity & helps in avoiding the fossil fuel fired electricity generation from the grid electricity mix and thereby reducing the equivalent GHG emissions from the atmosphere.

The total GHG emission reductions or removals generated in this monitoring period (01-Jul-2018 to 31-Jul-2020) is 1,82,100 tCO_{2e}.

1.2 Sectoral Scope and Project Type

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

Methodology applied is ACM 0002 of version 18.1

Project is neither an AFOLU project nor a grouped project.

1.3 Project Proponent

Organization name	Green Infra Wind Power Generation Limited
Contact person	Mr. Mayank Tyagi

¹ As per Commissioning Certificates.

Title	Manager, Power Sales
Address	5th floor, Tower C, Building No. 8, DLF Cybercity, Gurgaon – 122002 Haryana, India
Telephone	+ 0124-3896972
Email	-

1.4 Other Entities Involved in the Project

Organization name	Infinite Solutions
Role in the Project	Project Consultant
Contact person	Mr. Jimmy Sah
Title	Head - Sustainability
Address	611, Chetak Centre Main, RNT Marg, Indore - 452001, India
Telephone	+91-9644130430
Email	jimmy@infisolutions.org

1.5 Project Start Date

Start date of the project activity is the earliest date of interconnection with the grid i.e. 12-08-2016.

1.6 Project Crediting Period

The project chooses a renewable crediting period of 10 years. After 10 years, the crediting period will be renewed twice.

Crediting period start date : 12-Aug-2016

Crediting period end date : 11-Aug-2026

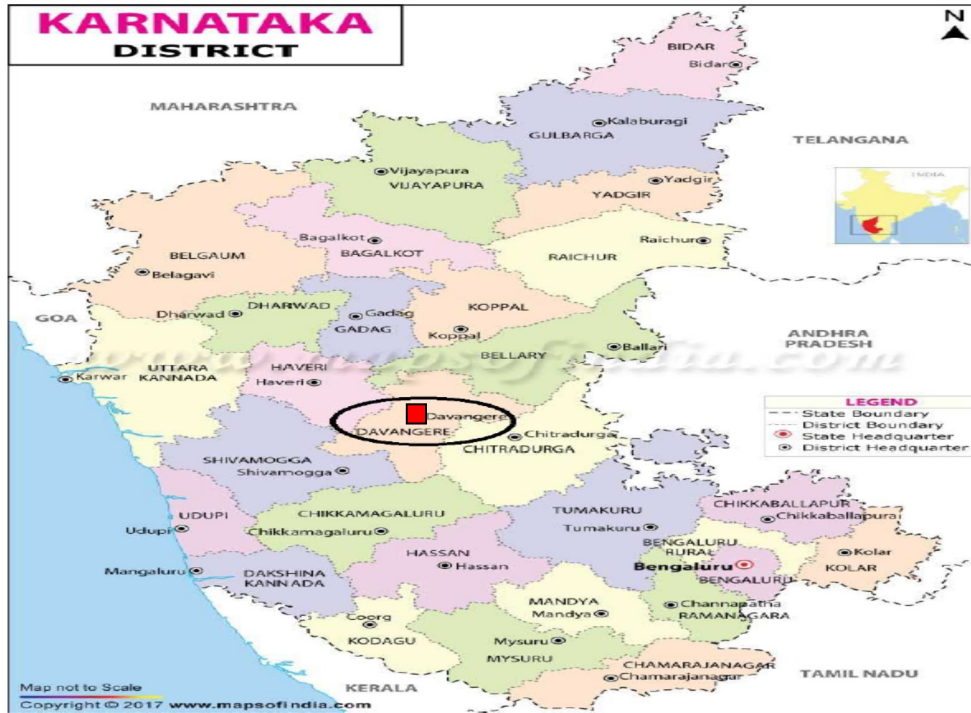
1.7 Project Location

The project activity is located in Karnataka state of India.

Investor Name: Green Infra Wind Power Generation Limited

Capacity	Taluka	District	State	Latitude	Longitude
36 MW	Harappanahalli	Davanagere	Karnataka	14°46'20.2404"	75°57'47.0664"

The project locations have been shown in the map below:



WTG wise Location:

S.No	SCADA Label	Longitude	Latitude
1	HRG 01	75° 35' 2.4"N	14° 28' 51.6"E
2	HRG 02	75° 34' 30"N	14° 29' 6"E
3	HRG 03	75° 35' 31.2"N	14° 29' 31.2"E
4	HRG 04	75° 34' 55.2"N	14° 29' 2.4"E
5	HRG 05	75° 34' 30"N	14° 29' 31.2"E
6	HRG 06	75° 35' 31.2"N	14° 29' 27.6"E
7	HRG 07	75° 34' 55.2"N	14° 29' 56.4"E
8	HRG 08	75° 34' 26.4"N	14° 29' 27.6"E
9	HRG 09	75° 34' 15.6"N	14° 29' 31.2"E
10	HRG 10	75° 35' 34.8"N	14° 29' 6"E
11	HRG 11	75° 34' 22.8"N	14° 29' 27.6"E
12	HRG 12	75° 35' 45.6"N	14° 29' 34.8"E
13	HRG 14	75° 35' 31.2"N	14° 28' 55.2"E
14	HRG 15	75° 35' 31.2"N	14° 28' 58.8"E
15	HRG 16	75° 34' 30"N	14° 28' 55.2"E
16	HRG 17	75° 35' 6"N	14° 28' 55.2"E
17	HRG 18	75° 35' 34.8"N	14° 29' 34.8"E
18	HRG 19	75° 34' 51.6"N	14° 29' 31.2"E

1.8 Title and Reference of Methodology

Type : ACM0002,
Title : “Grid-connected electricity generation from renewable sources”
Sectoral Scope : 01
Version : 18.1, Dated: 23 May 2018
EB : 99
Reference: <https://cdm.unfccc.int/methodologies/DB/5725LCHYPYM4I1V8OD9SFYVAMFFWNP>

In line with the applied methodology, following tools and guidelines are referred in this PD:

- Tool to calculate the emission factor for an electricity system, Version 6, EB 97 annex 07²
- Tool for the demonstration and assessment of additionality - Version 7, EB 70 Annex 8³

1.9 Participation under other GHG Programs

PP has submitted the undertaking confirming that project has not participated in any other binding and/or non-binding GHG program and any national REC scheme to the DOE. Hence, there is no double accounting of emission reduction has happened.

Participation under Other GHG Programs:

The project activity has never participated in any other GHG programs.

1.10 Other Forms of Credit

Emission Trading Programs and Other Binding Limits:

The project proponent is not part of any emission trading program. PP also does not have any binding GHG emission limits. The net GHG emission reductions from the project will not be used for compliance with emission trading programs or to meet binding limits on GHG emissions. A letter of this effect from the project proponent shall be submitted to the DOE.

The project activity has not participated under any other GHG programs. A letter of this effect from the project proponent shall be submitted to the validator during verification.

Other Forms of Environmental Credit:

The project activity does not result in creation of any other kind of environmental credits. A letter from the project proponent shall be submitted to the validator with an undertaking that the project has not created another form of environmental credit. PP has not participated in REC mechanism. Hence, not eligible to claim REC benefits.

1.11 Sustainable Development

Ministry of Environment & Forests, Government of India has stipulated following indicators for sustainable development in the interim approval guidelines for GHG projects.

1.Social well-being

2.Economic well-being

² <http://cdm.unfccc.int/methodologies/DB/5725LCHYPYM4I1V8OD9SFYVAMFFWNP>

³ <http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf>

3.Environmental well-being

4.Technological well-being

Contribution to sustainable development:

Social well-being

The project would help in generating employment opportunities during the construction and operation phases. The project activity will lead to development in infrastructure in the region like development of roads and also may promote business with improved power generation.

Economic well-being

The project is a clean technology investment in the region, which would not have been taken place in the absence of the VCS benefits. The project activity will generate power using zero emissions wind-based power generation which helps to reduce GHG emissions and specific pollutants like SO_x, NO_x, and SPM associated with the conventional thermal power generation facilities.

Environmental well-being

The project is using renewable Wind Energy for electricity generation. There is no net GHG emission from this project activity. Wind is considered one of the cleanest sources of energy which contributes in reduction of GHG emissions of CO₂. Thus, the project causes no negative impact on the surrounding environment contributing to environmental well-being.

Technological well-being

The project makes use of efficient environmentally safe technology for electricity generation with no Green House Gas (GHG) emission.

In view of the above, the PP has considered that the project activity profoundly contributes to the sustainable development.

2 SAFEGUARDS

2.1 No Net Harm

There is no net harm from the project activity as the wind project does not have any negative environmental and socio-economic impacts.

Further, as per the prevailing Ministry of Environment and Forest laws, the Schedule 1 of Ministry of Environment and Forests (Government of India) notification dated 14 September (2006), 38 activities are required to undertake environmental impact assessment studies. Environmental Impact Assessment study is not required for wind mill project as there is no negative environmental impact due to the project activity and wind energy is one of the cleanest sources of energy.

2.2 Local Stakeholder Consultation

Local stakeholder consultation has already done during registration of project activity. The stakeholder consultation meeting was conducted on 10/11/2015 at project site, Karnataka. The

consultations were done by identifying the right stakeholders, including, local farmers, villagers, school teachers, government officials, panchayat officials, local NGOs.

The representative of Green Infra Wind Power Generation Limited (Project Investor), welcomed the gathering and given a brief about the climate mitigation project activity. Subsequent to the introductory speech, stakeholders were explained about the electricity generation from wind project is an environmental friendly power generation technology contributing to reduction in GHG emissions. They were also explained about the benefits of the wind power projects like, increasing energy availability and improving quality of power and its assistance to the local population by providing employment opportunities to both skilled & unskilled labours.

Also, post consultations the project proponent has also devised a Grievance mechanism to address any concerns of the villagers. A grievance Register with the details of site contact person, Head office HSE person are available at O&M provider site office in the project location.

However, there is no comments received in the current monitoring period.

2.3 AFOLU-Specific Safeguards

This is not applicable to the project activity as for non-AFOLU projects, this section is not required.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The project activity has been successfully commissioned⁴ by project promoters and was registered by VCS Board subsequently (Project ID: Ref No1776).

The project is a Wind Power project, consists of 18 numbers of WTGs of 2 MW each aggregated to capacity of 36 MW. The generated electricity is delivered to grid for group captive consumer usage.

The detailed specifications of the WTGs are as below:

WTG Make and Model No.	Gamesa G114
Generator Type & Rating	Doubly-Fed Asyn, 2000kW
WTG configuration	18 X 2000 kW
Rotor Diameter	114.0 m
Swept Area	10,207.0 m2
Hub Height	106
Tower Type	Conical Tubular Steel
Cut-in-wind speed	2.5 m/s
Cut-in-wind speed	2.5 m/s
Rated wind speed	10.0 m/s
Cut-out wind speed	25.0 m/s

⁴ Commissioning date has been provided under Section 1.1 of the MR.

Survival wind speed	60.0 m/s
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The electricity generated by the project is exported to the Indian electricity grid for group captive consumer usage. The project activity will therefore displace an equivalent amount of electricity which would have otherwise been generated by fossil fuel dominant electricity grid.

The project activity has been in operation continuously since its commissioning. There have been no emergencies happened to the monitoring system. There are no events or situation that occurred during the monitoring period which may impact the applicability of the methodology.

Lifetime of the project activity

The lifetime of the project activity is 25 years.

3.2 Deviations

3.2.1 Methodology Deviations

There has been no methodology deviation applied during this monitoring period of the project activity.

3.2.2 Project Description Deviations

There are project description deviations applied during this monitoring period of the project activity.

monitoring report. This shall include a description of when the changes occurred and the reasons In line with the Para 3.18.2 of the VCS standard version 4⁵, “the deviation does not impact the applicability of the methodology, additionality or the appropriateness of the baseline scenario, and the project remains in compliance with the applied methodology, the deviation shall be described and justified in the for the changes. The deviation shall also be described in all subsequent monitoring reports.”

1. Change from PD: Consideration of Transmission losses in calculating the Net electricity supplied to the grid by the project plant in a given month

Net Electricity (kWh) = Export, kWh – Import, kWh – Transmission losses,

Reason: Currently, Discom has started considering the “Transmission Loss” in JMR. Hence same has been considered and deducted from the Export value to arrive at the Net Electricity delivered from the project activity. This is not under the purview of PP as the State Electricity board is a government entity and solely responsible for the JMR preparation and any changes in the calculation of Net Electricity formulae. PP has no control over it and therefore deducted the transmission losses in line with the JMR prepared by the DISCOM during the current monitoring period.

⁵ https://verra.org/wp-content/uploads/2019/09/VCS_Standard_v4.0.pdf

2. Change from PD: Registered JPD provides the latitude & longitude of Harapanahalli site only, the WTGs wise Latitude & Longitude is provided as well.

S.No	SCADA Label	Longitude	Latitude
1	HRG 01	75° 35' 2.4"N	14° 28' 51.6"E
2	HRG 02	75° 34' 30"N	14° 29' 6"E
3	HRG 03	75° 35' 31.2"N	14° 29' 31.2"E
4	HRG 04	75° 34' 55.2"N	14° 29' 2.4"E
5	HRG 05	75° 34' 30"N	14° 29' 31.2"E
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16	HRG 17	75° 35' 6"N	14° 28' 55.2"E
17	HRG 18	75° 35' 34.8"N	14° 29' 34.8"E
18	HRG 19	75° 34' 51.6"N	14° 29' 31.2"E

Reason: This to update the information in the JPD with respect to the location of individual WTG along with the Harapanahalli site latitude & Longitude.

The above deviations do not impact the applicability of the methodology, additionality or the appropriateness of the baseline scenario, and the project remains in compliance with the applied methodology.

3.3 Grouped Projects

The project is not a grouped project hence this section is not applicable.

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

Data / Parameter	EF _{grid,OM,y}
Data unit	tCO ₂ /MWh

Description	Operating Margin CO ₂ emission factor in year y
Source of data	Central Electricity Authority: Calculated from CEA database, Version 12, May 2017 ⁶
Value applied	0.9843
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per “Tool to calculate the emission factor for an electricity system, version 05” as 3-year generation weighted average using data for the years 2013-14, 2014-15 & 2015-16. The data are obtained from “CO ₂ Baseline Database for Indian Power Sector” version 12, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of Data	Calculation of baseline emissions
Comments	This parameter is fixed ex-ante for the entire crediting period.

Data / Parameter	EF _{grid,BM,y}
Data unit	tCO ₂ /MWh
Description	Build margin CO ₂ emission factor in year Y
Source of data	Central Electricity Authority: Calculated from CEA database, Version 12, May 2017 ⁷
Value applied	0.9083
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per “Tool to calculate the emission factor for an electricity system, version 05” as per the latest data available for the most recent year 2015-16. The data is obtained from “CO ₂ Baseline Database for Indian Power Sector” version 12, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of Data	Calculation of baseline emissions
Comments	This parameter is fixed ex-ante for the entire crediting period.

Data / Parameter	EF _{grid,CM,y}
Data unit	tCO ₂ /MWh
Description	Combined margin CO ₂ emission factor in year y

⁶ http://www.cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver12.pdf

⁷ http://www.cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver12.pdf

Source of data	Central Electricity Authority: Calculated from CEA database, Version 12, May 2017 ⁸
Value applied	0.9653
Justification of choice of data or description of measurement methods and procedures applied	The combined margin emissions factor is calculated as follows: $EF_{grid,CM,y} = EF_{grid,OM,y} * WOM + EF_{grid,BM,y} * WBM$ Where: $EF_{grid,BM,y}$ = Build margin CO₂ emission factor in year y (tCO₂/MWh) $EF_{grid,OM,y}$ = Operating margin CO₂ emission factor in year y (tCO₂/MWh) WOM = Weighting of operating margin emissions factor (%) = 75% WBM = Weighting of build margin emissions factor (%) = 25%
Purpose of Data	Calculation of baseline emissions
Comments	This parameter is fixed ex-ante for the entire crediting period.

4.2 Data and Parameters Monitored

Data / Parameter	EG_{PJ,y}
Data unit	MWh/y
Description	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y in MWh
Source of data	Monthly joint meter reading reports
Description of measurement methods and procedures to be applied	The Net electricity supplied to the grid is the difference of final value of export and import after deducting Transmission losses in line with the JMR, and same value will be considered for ER calculations.
Frequency of monitoring/recording	Continuous monitoring with monthly recording
Value monitored	188646.342
Monitoring equipment	The electricity exported / supplied by the plant to pooling substation and further to substation. This meter also measures electricity imported by the plant from the grid.
QA/QC procedures to be applied	The meters are approved, tested & sealed by the State Utility. The meters are in the custody of State Utility. The frequency of calibration is once in 5 ⁹ years. The monthly electricity supplied/exported by the project activity in the JMR report is cross checked with the monthly invoices of sale. In the absence or delay in the meter calibration appropriate Guidelines will be applied appropriately to confirm the conservativeness of metering.

⁸ http://www.cea.nic.in/reports/others/thermal/tpece/cdm_co2/user_guide_ver12.pdf

⁹ http://www.aegcl.co.in/Metering_Regulations_Of_CEA_17_03_2006.pdf

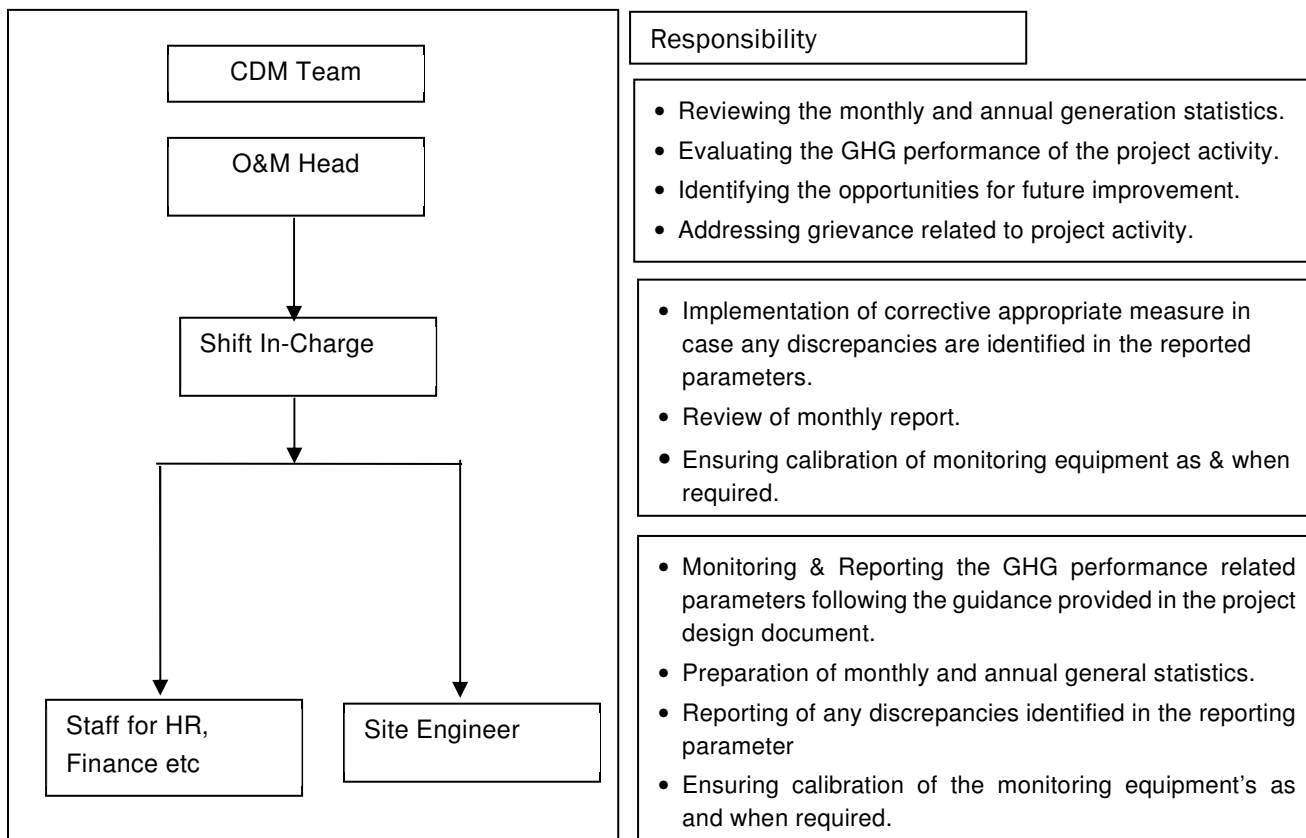
	The metering arrangement, accuracy class of meters, calibration frequency is under control of state electricity board and PP do not have any control on it. PP is getting value of net electricity supplied to grid from the JMR and the same is considered in the monitoring parameter. The billing is raised based on substation meters.
Purpose of the data	Calculation of Baseline Emissions
Calculation method	Thus, Net electricity supplied to the grid by the project plant in a given month = Export, kWh – Import, kWh – Transmission losses, Currently, Discom has started considering the “Transmission Loss” in JMR. Hence, same has been considered and deducted from the Export value to arrive at the Net Electricity delivered from the project activity. This is not under the purview of PP as the State Electricity board is a government entity and solely responsible for the JMR preparation and any changes in the calculation of Net Electricity formulae. PP has no control over it and therefore deducted the transmission losses in line with the JMR prepared by the DISCOM during the current monitoring period. In invoice, the import is calculated as 115% of import and thus conservative value of considering 115% of import is used for ER calculations.
Comments	Data will be archived in paper & electronic form for two years after the end of crediting period or of the last issuance of VERs for this project activity, whichever occurs later.

4.3 Monitoring Plan

The monitoring plan is developed in accordance with the modalities and procedures for CDM project activities and is proposed for grid-connected wind power project being implemented. The monitoring plan, which will be implemented by the project participant describes about the monitoring organisation, parameters to be monitored, monitoring practices, quality assurance, quality control procedures, data storage and archiving.

The authority and responsibility for registration, monitoring, measurement, reporting and reviewing of the data rests with the project participant. PP proposed the following structure for data monitoring, collection, data archiving and calibration of equipment's for this project activity.

The team comprises of the following members:



Data Measurement

The export and import energy will be measured continuously using above mentioned Main and Check meters located at the substations. Readings of meters shall be taken on monthly basis by authorized officer of SEB in the presence of PP or representative of PP. Based on the Meter Reading Statement to PP, invoices will be raised. These invoices can be used for cross checking the meter readings taken for the respective project activity.

Data collection and archiving

Readings from meters will be collected in the presence of the plant in-charge. Export and Import data would be recorded and stored in logs as well as in electronic form on a daily basis. The records are checked periodically by the Plant Manager and discussed thoroughly with the plant supervisor. The period of storage of the monitored data will be 2 years after the end of crediting period or till the last issuance of VERs for the project activity whichever occurs later.

Emergency preparedness

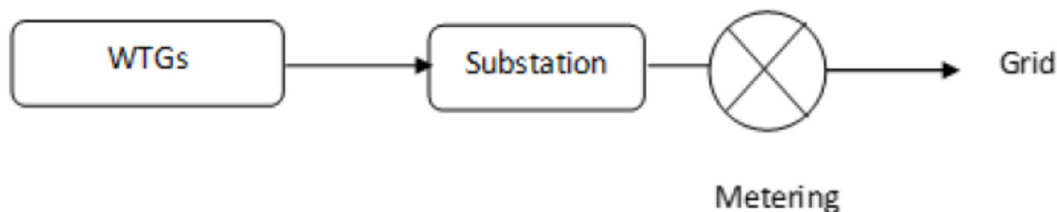
The project activity will not result in any unidentified activity that can result in substantial emissions from the project activity. No need for emergency preparedness in data monitoring is visualized.

Personnel training

In order to ensure a proper functioning of the project activity and a properly monitoring of emission reductions, the staff will be trained. The plant helpers will be trained in equipment operation, data recording, reports writing, operation and maintenance and emergency procedures in compliance with the monitoring plan.

Metering Arrangement

Line diagram with metering arrangement for the wind project activity is shown below:



The wind plant has their own dedicated metering arrangement at the substation end. The metering arrangement is under control of state electricity board and may change in future.

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

As per methodology:

$$BE_y = EG_{PJ,y} * EF_{grid,CM,y}$$

Where,

BE_y = Baseline Emissions in year Y (tCO_{2e}/yr)

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the VCS project activity in year y (MWh/yr)

$EF_{grid,CM,y}$ = Combined margin CO_2 emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO_{2e}/MWh) (i.e, 0.9653 tCO_2/MWh).

and;

$$EG_{PJ,y} = 188646.342 \text{ MWh}$$

Here,

$$\begin{aligned} BE_y &= 188646.342 \text{ MWh} * 0.9653 \text{ tCO}_2/\text{MWh} \\ &= 182100 \text{ tCO}_{2e} \end{aligned}$$

Refer the ER sheet for detailed calculations.

5.2 Project Emissions

Not Applicable, since emissions from the project activity is zero as per ACM0002 methodology.

5.3 Leakage

Not Applicable, since leakage emissions from the project activity is zero as per ACM0002 methodology.

5.4 Net GHG Emission Reductions and Removals

As per the applied methodology, emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y$$

Where,

ER_y = Emission Reduction in $\text{tCO}_{2e}/\text{year}$

BE_y = Baseline emission in $\text{tCO}_{2e}/\text{year}$

PE_y = Project emissions in $\text{tCO}_{2e}/\text{year}$

Year	Baseline emissions or removals (tCO _{2e})	Project emissions or removals (tCO _{2e})	Leakage emissions (tCO _{2e})	Net GHG emission reductions or removals (tCO _{2e})
(01/07/2018 to 31/12/2018) 2018	54,744	0	0	54,744
(01/01/2019 to 31/12/2019) 2019	87,800	0	0	87,800
(01/01/2020 to 31/07/2020) 2020	39,556	0	0	39,556

Total	1,82,100	0	0	1,82,100
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It is to be noted here that as per the estimated emission reduction to be achieved from the project activity for the current monitoring period is 165,232 tCO_{2e}, whereas actual emission reductions achieved are 182,100 tCO_{2e}, which is around 10% higher than the estimated emission reductions. The generation of electricity depends upon the wind availability which affects PLF, and not within the control of the project participant, during the current verification period due to certain natural conditions PLF achieved is little bit higher i.e. 28.65% and estimated PLF was 27%. The % difference in the expected and actual PLF is only 5.77% which is within the sensitivity analysis range of the project activity. Hence acceptable.

APPENDIX 1: < METER CALIBRATION DETAILS >

Meter and Calibration details of 36 MW Wind project by Green Infra Wind Power Generation Limited:

Feeder No 1		
Meter & Calibration Details:		
Details	Main Meter	Check Meter
Meter Number	16196486	16196494
Make	L&T	L&T
Accuracy	0.2s	0.2s
Last Calibration	06-Apr-17	06-Apr-17
Due date	05-Apr-22	05-Apr-22

Feeder No 2		
Meter & Calibration Details:		
Details	Details	Details
Meter Number	16196472	16196478
Make	L&T	L&T
Accuracy	0.2s	0.2s
Last Calibration	06-Apr-17	06-Apr-17
Due date	05-Apr-22	05-Apr-22