



Monitoring Report

CARBON OFFSET UNIT (CoU) PROJECT



Title: 10.8 MW Bundled Wind Power Project in Gujarat, India

Version 1.0

Date 20/10/2022

First CoU Issuance Period: 10 Months

Monitoring Period: 26/03/2021 to 31/12/2021



Monitoring Report (MR) CARBON OFFSET UNIT (CoU) PROJECT

Monitoring Report	
Title of the project activity	10.8 MW Bundled Wind Power Project in Gujarat, India
UCR Project Registration Number	084
Version	1.0
Completion date of the MR	20/10/2022
Monitoring period number and duration of this monitoring period	Monitoring Period Number: 01 Duration of this monitoring Period: (first and last days included (26/03/2021 to 31/12/2021)
Project participants	Creduce Technologies Private Limited (Representator) M/S RSB Cottex limited. (Developer) M/S Ikaa Granito Pvt. Ltd. (Developer) M/S Varmora Granito Pvt. Ltd. (Developer) M/S Italica Floor tiles Pvt. Ltd. (Developer)
Host Party	India
Applied methodologies and standardized baselines	Applied Baseline Methodology: AMS-I. D: "Grid connected renewable electricity generation", version 18
Sectoral scopes	01 Energy industries (Renewable/Non-Renewable Sources)
Estimated amount of GHG emission reductions for this monitoring period in the registered PCN	2021: 23,423 CoUs (23,423 tCO ₂ e)
Total:	23,423 CoUs (23,423 tCO ₂ e)

SECTION A. Description of project activity

A.1. Purpose and general description of project activity >>

The proposed project activity with title under UCR “10.8 MW Bundled Wind Power Project in Gujarat, India”, is a grid connected renewable power generation activity which incorporates installation and operation of 4 Wind Turbine Generators (WTGs) having individual capacity of 2.70 MW manufactured and supplied by GE Renewable Energy in the district Jamnagar of the state of Gujarat in India. Aggregated installed capacity of the project activity is 10.8 MW. The project is an operational activity with continuous reduction of GHG, currently being applied under “Universal Carbon Registry” (UCR).

a) Purpose of the project activity and the measures taken for GHG emission reductions >>

The project activity aims to harness kinetic energy of wind (renewable source) to generate electricity. This project has been promoted by M/S RSB Cottex limited, M/S Ikaa Granito Pvt. Ltd., M/S Varmora Granito Pvt. Ltd. and M/S Italica Floor Tiles Pvt. Ltd. The net generated electricity from the project activity is used for captive consumption by the respective Project Proponent. Wheeling Agreement is signed between Gujarat Energy Transmission Corporation Limited (GETCO) and PP. Earlier PP was using the energy from NEWNE grid to meets its requirement. Currently, NEWNE grid is connected to large numbers of fossil fuel-based power plants. Hence, project activity is displacing the gross electricity generation i.e., 26,025 MWh from the NEWNE grid, which otherwise would have been imported from the NEWNE grid.

The project activity doesn't involve any GHG emission sources. The annual and the total CO₂e emission reduction by the project activity over the defined monitoring period is as per **Annexure I**.

b) Brief description of the installed technology and equipment>>

The project activity involves 4 Wind Turbine Generator (WTG) having capacity of 2.70 MW manufactured and supplied by GE India Industrial Private Limited. The average life time of the generator is around 20 years as per the equipment supplier specification. The other salient features of the technology are:

Wind is used to produce electricity using the kinetic energy created by air in motion. This is transformed into electrical energy using wind turbines or wind energy conversion systems. Wind first hits a turbine's blades, causing them to rotate and turn the turbine connected to them. That changes the kinetic energy to rotational energy, by moving a shaft which is connected to a generator, and thereby producing electrical energy through electromagnetism.

Below is the description of different components of a Wind Turbine Generator.

1. **Main Tower:** The main support tower is made of steel, finished in a number of layers of protective paint to shield it against the elements. The tower is tall enough to ensure the rotor blade does not interfere with normal day-to-day operations at ground level.
2. **Rotor Blades:** The rotor blades are the three (usually three) long thin blades that attach to the hub of the nacelle. These blades are designed to capture the kinetic energy in the wind as it passes, and convert it into rotational energy.
3. **Nacelle:** The nacelle is the 'head' of the wind turbine, and it is mounted on top of the support tower. The rotor blade assembly is attached to the front of the nacelle. It contains all the major parts of the WEG.

4. **Hub:** The hub of the wind turbine is the component that connects the blades to the main shaft and ultimately to the rest of the tower. The hub transmits and withstand all the loads generated by the blades.
5. **Main Shaft:** It is a piece of metal in the form of a tube which constitutes the most important spinning constituent since it conveys the energy from the wind turbine blades to the other parts of the wind turbine.
6. **Gear Box:** A gearbox is often used in a wind turbine to increase the rotational speed from a low-speed main shaft to a high-speed shaft connecting with an electrical generator. Gears in wind turbine gearbox are subjected to severe cyclic loading due to variable wind loads that are stochastic in nature.
7. **Brake:** A wind turbine rotor brake is a brake placed next to the gearbox that reduces the rotational speed of the blade assembly, fixes the blade so that it does not rotate in the case of power transmission maintenance or power generator rest, and in an emergency.
8. **Turbine generator:** The turbine generator is the component that turns the rotational energy in the high-speed output shaft from the gearbox into an electrical current. The electrical principle of electromagnetic induction shows that while a magnet is moving past a coil of wire, an electric current is created (or “induced”) in the wire.

c) Relevant dates for the project activity (e.g., construction, commissioning, continued operation periods, etc.)>>

The duration of the crediting period corresponding to the monitoring period is covered in this monitoring report.

UCR Project ID : 084
Start Date of Crediting Period : 26/03/2021

Commissioning Date of Wind Turbines is given in the below table:

Sr. No.	Name of PP	WTG Number	Commissioning Date
1	M/S RSB Cottex limited.	GNESPL/GE/2700/20-21/6347	19/04/2021
2	M/S Ikaa Granito Pvt. Ltd.	GNESPL/GE/2700/20-21/6348	29/06/2021
3	M/S Varmora Granito Pvt. Ltd.	GNESPL/GE/2700/20-21/6352	26/03/2021
4	M/S Italica Floor tiles Pvt. Ltd	GNESPL/GE/2700/20-21/6349	26/03/2021

d) Total GHG emission reductions achieved or net anthropogenic GHG removals by sinks achieved in this monitoring period>>

The total GHG emission reductions achieved in this monitoring period is as follows:

Summary of the Project Activity and ERs Generated for the Monitoring Period	
Start date of this Monitoring Period	26/03/2021
Carbon credits claimed up to	31/12/2021
Total ERs generated (tCO ₂ e)	23,423 tCO ₂ e
Leakage	0
Project Emission	0

e) Baseline Scenario>>

As per the approved consolidated methodology AMS-I.D. Version 18, if the project activity is the installation of a new grid-connected renewable power plant/unit, the baseline scenario is the following: “The baseline scenario is that the electricity delivered to the grid by the project activity would have otherwise, been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid”.

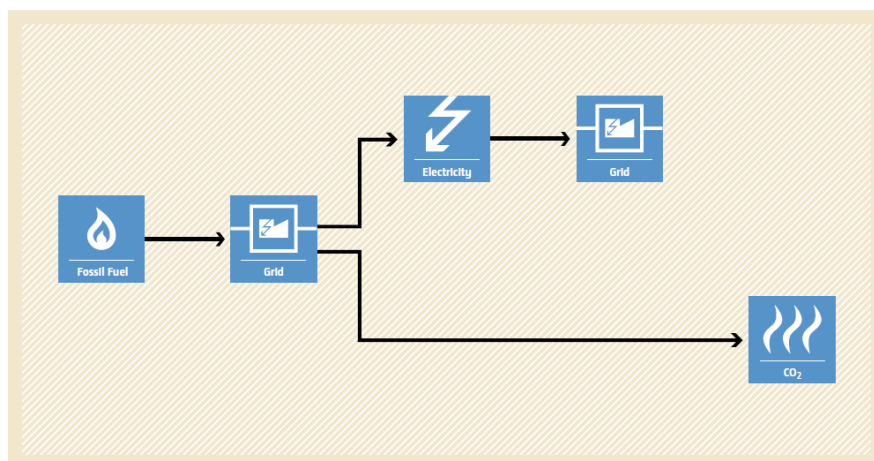


Figure 1 Baseline Scenario

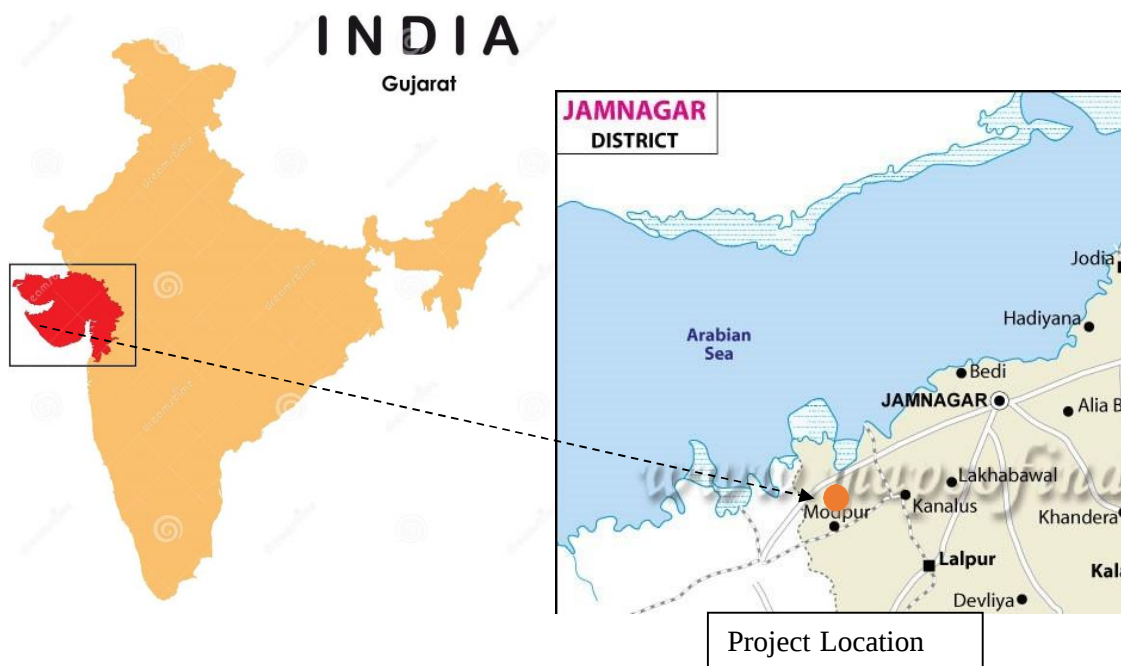
A.2. Location of project activity>>

Country : India
State : Gujarat
District : Jamnagar

The project location is situated in Jamnagar district in the state of Gujarat. The nearest airport is in Jamnagar. The project site is well connected by district and village roads to the nearest town. The geographic co-ordinates of the project locations have been provided below.

The geographic co-ordinate of the project locations is given in the following table.

Sr. No.	Name of PP	Pinpoint location
1	M/S RSB Cottex limited.	22°02'38.0"N 70°02'13.4"E
2	M/S Ikaa Granito Pvt. Ltd.	22°04'10.8"N 70°02'43.7"E
3	M/S Varmora Granito Pvt. Ltd.	22°03'53.6"N 70°02'00.7"E
4	M/S Italica Floor Tiles Pvt. Ltd	22°03'07.8"N 70°03'19.2"E



The representative location map is included below:
(Courtesy: google images, www.mapofindia.com)

A.3. Parties and project participants >>

Party (Host)	Participants
India	Creduce Technologies Private Limited (Representator) Contact person: Shailendra Singh Rao Mobile: +91 9016850742, 9601378723 Address: 2-O-13,14 Housing Board Colony, Banswara, Rajasthan - 327001,India M/S RSB Cottex limited. (Developer) Address: 103-105, 10th Floor, Parshwanath Business Park, Prahlad Nagar, Ahmedabad, 380015, Gujarat. M/S Ikaa Granito Pvt. Ltd. (Developer) Address: Survey No 164, Lakddhar, Matel Road, 8-A, National Highway, Ta-Wankaner, District Morbi, Gujarat. M/S Varmora Granito Pvt. Ltd. (Developer) Address: 8-A, National Highway, Dhuva, Ta- Wankaner District-Morbi, Gujarat. M/S Italica Floor tiles Pvt. Ltd. (Developer) Address: Survey No 111,112, 8-A, National Highway, Near Bandhunagar, Makansar, District Morbi-363642, Gujarat.

A.4. References to methodologies and standardized baselines >>

SECTORAL SCOPE - 01 Energy industries (Renewable/Non-Renewable Sources)

TYPE - Renewable Energy Projects

CATEGORY - AMS-I. D: “Grid connected renewable electricity generation”, version 18.

A.5. Crediting period of project activity >>

Start date : 26/03/2021

Length of the crediting period corresponding to this monitoring period : 10 Months

26/03/2021 to 31/12/2021 (Both the dates are included).

A.6. Contact information of responsible persons/entities >>

Name : Shailendra Singh Rao

Contact No : +91 9016850742, 9601378723

E-Mail : shailendra@creduce.tech

SECTION B. Implementation of project activity

B.1. Description of implemented registered project activity >>

a) Provide information on the implementation status of the project activity during this monitoring period in accordance with UCR PCN>>

The project consists of 4 WTG with capacity of 2.70 MW each which was commissioned by Gujarat Energy Development Agency (GEDA), Government of Gujarat in District Jamnagar, Gujarat. M/S RSB Cottex limited, M/S Ikaa Granito Pvt. Ltd., M/S Varmora Granito Pvt. Ltd. and M/S Italica Floor Tiles Pvt. Ltd are the PP of this project. The project generates clean energy by utilizing the kinetic energy of flowing wind.

b) For the description of the installed technology, technical process and equipment, include diagrams, where appropriate>>

The project activity involves 4 Wind Turbine Generator which is manufactured and supplied by GE Renewable Energy with an aggregate installed capacity of 10.80 MW. The connectivity of all the WTGs is to a central Monitoring Station (CMS) through high-speed WLAN modem or fiber optic cable which helps in providing real time status of the turbine at CMS with easy GUI (Graphical User Interface) and ability to monitor the functioning of the turbine from CMS. The life time of the WTG is 20 years as per manufacturer specifications.

Technical details for the machine installed at Jamnagar with a capacity of 10.80 MW Machine manufactured by GE Renewable Energy are as follows:

Maximum power output	2700 kW (1 WTG)
Diameter	132 m
Number of blades	3
Swept area	13,684 m ²
Rotor speed range	7.03 to 13.91 rpm
Rotational direction	Clockwise looking downwind
Tip speed @ rated power	84.3 m/s
Orientation	Upwind
Speed regulation	Pitch control
Aerodynamic brakes	Full feathering

B.2 Do no harm or Impact test of the project activity>>

Indian economy is highly dependent on “Coal” as fuel to generate energy and for production processes. Thermal power plants are the major consumers of coal in India and yet the basic electricity needs of a large section of population are not being met. This results in excessive demands for electricity and places immense stress on the environment.

Changing coal consumption patterns will require a multi-pronged strategy focusing on demand, reducing wastage of energy and the optimum use of renewable energy (RE) sources. This project is a greenfield activity where grid power is the baseline. The renewable power generation is gradually contributing to the share of clean & green power in the grid; however, grid emission factor is still on higher side which defines grid as distinct baseline.

The Government of India has stipulated following indicators for sustainable development in the interim approval guide lines for such projects which are contributing to GHG mitigations. The

Ministry of Environment, Forests & Climate Change, has stipulated economic, social, environment and technological well-being as the four indicators of sustainable development. It has been envisaged that the project shall contribute to sustainable development using the following ways:

Social well-being: The project would help in generating direct and indirect employment benefits accruing out of ancillary units for manufacturing towers for erection of the Wind Turbine Generator and for maintenance during operation of the project activity. It will lead to development of infrastructure around the project area in terms of improved road network etc. and will also directly contribute to the development of renewable infrastructure in the region.

Environmental well-being: The project utilizes Wind energy for generating electricity which is a clean source of energy. The project activity will not generate any air pollution, wind pollution or solid waste to the environment which otherwise would have been generated through fossil fuels. Also, it will contribute to reduction GHG emissions. Thus, the project causes no negative impact on the surrounding environment contributing to environmental well-being.

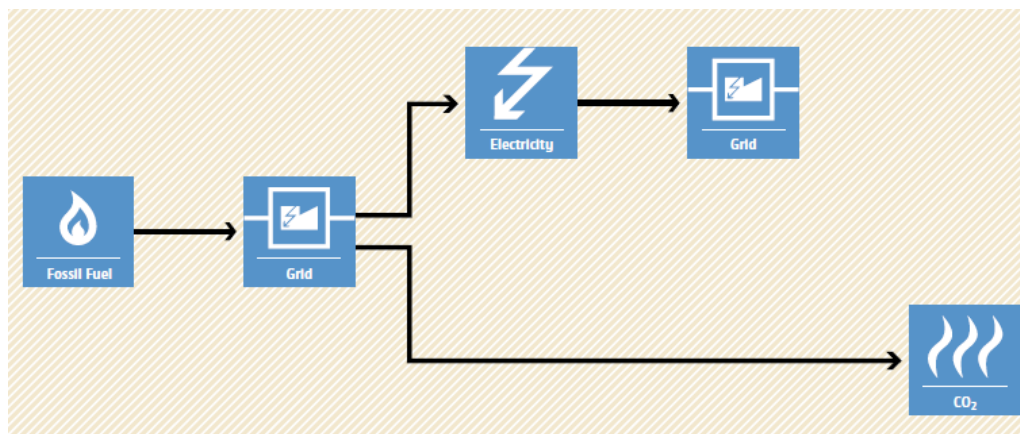
Economic well-being: Being a renewable resource, using Wind energy to generate electricity contributes to conservation precious natural resources. The project contributes to the economic sustainability through promotion of decentralization of economic power, leading to diversification of the national energy supply, which is dominated by conventional fuel based generating units. Locally, improvement in infrastructure will provide new opportunities for industries and economic activities to be setup in the area. Apart from getting better employment opportunities, the local people will get better prices for their land, thereby resulting in overall economic development.

Technological well-being: The project activity leads to the promotion of 2.70 MW Wind Turbine Generators into the region and will promote practice for small scale industries to reduce the dependence on carbon intensive grid supply to meet the captive requirement of electrical energy and also increasing energy availability and improving quality of power under the service area. Hence, the project leads to technological well-being.

B.3. Baseline Emissions>>

In the absence of the project activity, the equivalent amount of electricity would have been imported from the regional grid (which is connected to the unified Indian Grid system (NEWNE Grid)), which is carbon intensive due to predominantly sourced from fossil fuel-based power plants.

Baseline Scenario:



Thus, this project activity was a voluntary investment which replaced equivalent amount of electricity from the Indian grid. The project proponent was not bound to incur this investment as it was not mandatory by national and sectoral policies. Thus, the continued operation of the project activity would continue to replace fossil fuel-based power plants and fight against the impacts of climate change. The Project Proponent hopes that carbon revenues from 2013-2021 accumulated as a result of carbon credits generated will help repay the loans and help in the continued maintenance of this project activity.

B.4. Debundling>>

This project activity is bundled component of a larger project activity.

SECTION-C: Application of methodologies and standardized baselines

C.1. References to methodologies and standardized baselines >>

Sectoral Scope: 01 Energy industries (Renewable/Non-Renewable Sources)

TYPE I – Renewable Energy Projects

Applied Baseline Methodology: AMS-I.D.: “Grid connected renewable electricity generation”, version 18

C.2. Applicability of methodologies and standardized baselines >>

The project activity involves generation of grid connected electricity from the construction and operation of a new Wind Power based project for captive consumption.

The project activity has installed capacity of 10.80 MW which will qualify for a small-scale project activity under Type-I of the Small-Scale methodology. The project status is corresponding to the methodology AMS-I.D., version 18 and applicability of methodology is discussed below:

Applicability Criterion	Project Case
1. This methodology comprises renewable energy generation units, such as photovoltaic, hydro, tidal/wave, wind, geothermal and renewable biomass: (a) Supplying electricity to a national or a regional grid; or (b) Supplying electricity to an identified consumer facility via national/regional grid through a contractual arrangement such as wheeling.	The project activity is a Renewable Energy Project i.e., wind power project which falls under applicability criteria option 1 (a) i.e., “Supplying electricity to a national or a regional grid” Hence the project activity meets the given applicability criterion as well as satisfies the applicability illustration mentioned in Appendix of AMS-ID Table 1 – Scope of AMS-I.D. version 18.
2. This methodology is applicable to project activities that: (a) Install a Greenfield plant; (b) Involve a capacity addition in (an) existing plant(s); (c) Involve a retrofit of (an) existing plant(s); (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s).	The option (a) of applicability criteria 2 is applicable as project is a Greenfield plant /Unit. Hence the project activity meets the given applicability criterion.

3. Hydro power plants with reservoirs that satisfy at least one of the following conditions are eligible to apply this methodology: (a) The project activity is implemented in existing reservoir, with no change in the volume of the reservoir; or (b) The project activity is implemented in existing reservoir, where the volume of the reservoir(s) is increased and the power density as per definitions given in the project emissions section, is greater than 4 W/m². (c) The project activity results in new reservoirs and the power density of the power plant, as per definitions given in the project emissions section, is greater than 4 W/m²	The project activity involves installation of Wind Turbine Generator (WTG); hence, this criterion is not applicable.
4. If the new unit has both renewable and non-renewable components (e.g., a wind/diesel unit), the eligibility limit of 15 MW for a small-scale CDM project activity applies only to the renewable component. If the new unit co-fires fossil fuel, the capacity of the entire unit shall not exceed the limit of 15 MW.	The proposed project is 10.80 MW Wind power project, i.e., only component is renewable power project below 15MW, thus the criterion is not applicable to this project activity.
5. Combined heat and power (co-generation) systems are not eligible under this category	The project is wind power project and thus, the criterion is not applicable to this project activity.
6. In the case of project activities that involve the capacity addition of renewable energy generation units at an existing renewable power generation facility, the added capacity of the units added by the project should be lower than 15 MW and should be physically distinct¹ from the existing units.	The proposed project is a greenfield 10.80 MW wind power project, i.e., only component is renewable power project below 15 MW, thus the criterion is not applicable to this project activity.
7. In the case of retrofit, rehabilitation or replacement, to qualify as a small-scale project, the total output of the retrofitted, rehabilitated or replacement power plant/unit shall not exceed the limit of 15 MW.	The proposed project is a greenfield 10.80 MW wind power project, i.e., only component is renewable power project below 15 MW, thus the criterion is not applicable to this project activity.

8. In the case of landfill gas, waste gas, wastewater treatment and agro-industries projects, recovered methane emissions are eligible under a relevant Type III category. If the recovered methane is used for electricity generation for supply to a grid, then the baseline for the electricity component shall be in accordance with procedure prescribed under this methodology. If the recovered methane is used for heat generation or cogeneration other applicable Type-I methodologies such as “AMS-I.C.: Thermal energy production with or without electricity” shall be explored.	The proposed project is a greenfield 10.80 MW wind power project; hence, this criterion is not applicable to this project activity.
9. In case biomass is sourced from dedicated plantations, the applicability criteria in the tool “Project emissions from cultivation of biomass” shall apply.	No biomass is involved, the project is only a wind power project and thus the criterion is not applicable to this project activity.

C.3 Applicability of double counting emission reductions >>

The project was not applied under any other GHG mechanism. Hence project will not cause double accounting of carbon credits (i.e., COUs).

C.4. Project boundary, sources and greenhouse gases (GHGs) >>

As per applicable methodology AMS-I.D. Version 18, “The spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system.” Thus, the project boundary includes the Wind Turbine Generators and the Indian grid system.

Source		Gas	Included?	Justification/Explanation
Baseline	Grid connected electricity generation	CO ₂	Yes	CO₂ emissions from electricity generation in fossil fuel fired power plants
		CH ₄	No	Minor emission source
		N ₂ O	No	Minor emission source
		Other	No	No other GHG emissions were emitted from the project
Project	Greenfield Wind Power Project Activity	CO ₂	No	No CO ₂ emissions are emitted from the project
		CH ₄	No	Project activity does not emit CH ₄
		N ₂ O	No	Project activity does not emit N ₂ O
		Other	No	No other emissions are emitted from the project

C.5. Establishment and description of baseline scenario (UCR Protocol) >>

As per para 19 of the approved consolidated methodology AMS-I.D. Version 18, if the project activity is the installation of a new grid-connected renewable power plant/unit, the baseline scenario is the following:

“The baseline scenario is that the electricity delivered to the grid by the project activity would

have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid”.

The project activity involves setting up of a new Wind Turbine Generator to harness the green power from Wind energy and to use for captive consumption through PPA agreement. In the absence of the project activity, the equivalent amount of power would have been generated by the operation of grid-connected fossil fuel-based power plants and by the addition of new fossil fuel- based generation sources into the grid. The power produced at grid from the other conventional sources which are predominantly fossil fuel based. Hence, the baseline for the project activity is the equivalent amount of power produced at the Indian grid.

A "grid emission factor" refers to a CO₂ emission factor (tCO₂/MWh) which will be associated with each unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.9 tCO₂/MWh for the 2013-2021 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Also, for the vintage 2021, the combined margin emission factor calculated from CEA database in India results into same emission factors as that of the default value. Hence, the same emission factor has been considered to calculate the emission reduction.

Net GHG Emission Reductions and Removals

$$ER_y = BE_y - PE_y - LE_y$$

Where:

ER_y= Emission reductions in year y (tCO₂/y)

BE_y= Baseline Emissions in year y (t CO₂/y)

PE_y= Project emissions in year y (tCO₂/y)

LE_y= Leakage emissions in year y (tCO₂/y)

Baseline Emissions

Baseline emissions include only CO₂ emissions from electricity generation in power plants that are displaced due to the project activity. The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the addition of new grid-connected power plants.

The baseline emissions are to be calculated as follows:

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

Where:

BE_y = Baseline emissions in year y (t CO₂)

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

EF_{grid,y} = UCR recommended emission factor of 0.9 tCO₂/MWh has been considered, this is conservative as compared to the combined margin grid emission factor which can be derived from Database of Central Electricity Authority (CEA), India. (Reference: General Project Eligibility Criteria and Guidance, UCR Standard, page 4)

Hence,

Baseline Emissions Calculation				
Sr.No	Year	EG _{py} (MWh)	EF _{grid,y}	BE _y
1	2021	26,025	0.9	23,423
2	BE (tCO ₂ e) for the period of 2021			23,423

Project Emissions

As per paragraph 39 of AMS-I.D. (version 18, dated 28/11/2014), for most renewable energy project activities emission is zero.

Hence,

$$PE = 0$$

Leakage Emissions

As per paragraph 42 of AMS-I.D. version-18, all projects other than Biomass projects have zero leakage.

Hence,

$$LE = 0$$

Total Emission reduction by the project for the current monitoring period is calculated as below:

Hence,

$$ER = 23,423 - 0 - 0 = 23,423 \text{ CoUs}$$

C.6. Prior History>>

The project was not applied under any other GHG mechanism. Hence project will not cause double accounting of carbon credits (i.e., COUs).

C.7. Monitoring period number and duration>>

First Monitoring Period: 10 Months

26/03/2021 to 31/12/2021 (inclusive of both dates)

C.8. Changes to start date of crediting period >>

There is no change in Start date of crediting period.
Crediting period start date is 26/03/2021.

C.9. Permanent changes from PCN monitoring plan, applied methodology or applied standardized baseline >>

There are no permanent changes from registered PCN monitoring plan and applied methodology.

C.10. Monitoring plan>>

The project activity essentially involves generation of electricity from wind, the employed Wind Turbine Generator can only convert Wind energy into electrical energy and cannot use any other input fuel for electricity generation, thus no special ways and means are required to monitor leakage from the project activity. The recording of the electricity fed to the state utility grid is carried out jointly at the incoming feeder of the state power utility (GETCO).

Data / Parameter	EF_{grid,y} UCR recommended emission factor
Data unit	tCO ₂ /MWh
Description	A "grid emission factor" refers to a CO ₂ emission factor (tCO ₂ /MWh) which will be associated with unit of electricity provided by an electricity system. The UCR recommends an emission factor of 0.9 tCO ₂ /MWh for the 2013 - 2021 years as a fairly conservative estimate for Indian projects not previously verified under any GHG program. Hence, the same emission factor has been considered to calculate the emission reduction under conservative approach.
Source of data	https://a23e347601d72166dcd6-16da518ed3035d35cf0439f1cdf449c9.ssl.cf2.rackcdn.com//Documents/UCRStandardAug2022updatedVer5_030822005728911983.pdf
Value applied	0.9
Measurement methods and procedures	-
Monitoring frequency	Ex-ante fixed parameter
Purpose of Data	For the calculation of Emission Factor of the grid
Additional Comment	The combined margin emission factor as per CEA database (current Version 16, Year 2021) results into higher emission factor. Hence for 2021 vintage UCR default emission factor remains conservative.

Parameter	EG_{PJ,y}
Data unit	MWh
Description	Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of this project activity in year y.
Source of data Value(s) applied	SLDC Certificate
Procedures	The Net electricity generation by the WTG is recorded at the sub-station. At the end of every month SLDC Certificate is generated based on the total monthly electricity exported to the grid.
Monitoring frequency	Monthly
Value Applied	26025
Purpose of data	To Calculate Baseline Emission

ANNEXURE I (Emission Reduction Calculation)

10.8 MW bundled Wind power project in Gujarat

Month - Wise Energy Delivered to Grid (in MWh)												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2021	0.000	0.000	139.508	1,363.053	2,477.920	2,894.097	4,807.713	3,216.072	2,653.312	1,617.184	3,060.101	3,796.706
Year-Wise Emission reduction calculation for the project activity												
Year	Total No. of Electricity delivered in MWh				Recommended emission factor				Total CoUs generated			
2021	26,025.666				0.9				23,423			
Total CoUs to be issued for the first monitoring period (Year: 2021)												23,423