

PROJECT CONCEPT NOTE

CARBON OFFSET UNIT (CoU) PROJECT



Title: 49.3 MW Wind Power Project by BPCL in Karnataka

Version 2.0
Date 21/11/2024
First CoU Issuance Period: 9 Years 7 Months and 19 days
Date: 13/05/2014 to 31/12/2023



Project Concept Note (PCN) CARBON OFFSET UNIT (CoU) PROJECT

BASIC INFORMATION		
Title of the project activity	49.3 MW Wind Power Project by BPCL in Karnataka	
The scale of the project activity	Large-Scale Wind Project	
Completion date of the PCN	21/11/2024	
Project participants	BHORUKA POWER CORPORATION LTD	
Host Party	INDIA	
Applied methodologies and standardized baselines	ACM0002., Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0	
Sectoral scopes	01 Energy industries (Renewable/Non-renewable Sources)	
Estimated amount of total GHG emission reductions	13,11,183 CoUs (13,11,183 tCO _{2eq})	
Annual Average total GHG emission reductions	1,31,118	

SECTION A. Description of project activity

A.1. Purpose and general description of Carbon offset Unit (CoU) project activity >>

The BHORUKA POWER CORPORATION LTD 49.3 MW project in Karnataka, situated in Bastwad, Birnal, Byakud, Nidgundi, Sansuddi, and Khandal Villages of Belgaum District, Karnataka State, India, has been successfully commissioned by Karnataka Power Transmission Corporation Limited (KPTCL). Approval for commissioning and interconnection was granted by the Chief Electrical Inspector to the Government of Karnataka, with corresponding permissions provided by the Chief Engineer (T&QC) at KPTCL.

Purpose of the project activity:

The project seeks to utilize wind energy as a sustainable alternative for electricity generation, aiming to decrease the carbon footprint associated with human activities. By substituting electricity generation from current and proposed fossil fuel-based plants linked to the grid, the project offsets emissions equivalent to those emitted by such plants. The deployment of Wind Energy Converters (WEC) enables emission-free electricity generation. Here's a summary of the dates when the installed Wind Turbine Generators were operationalized:

Sr. No.	Make	Capacity	Commissioning Date
1	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	13.05.2014
2	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	13.05.2014
3	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	13.05.2014
4	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	13.05.2014
5	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	13.05.2014
6	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	13.05.2014
7	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	13.05.2014
8	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	13.05.2014
9	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	13.05.2014
10	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	13.05.2014
11	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	04.06.2014
12	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	04.06.2014
13	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	04.06.2014
14	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	04.06.2014
15	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	04.06.2014
16	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	04.06.2014
17	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	04.06.2014
18	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	04.06.2014
19	M/s. GE India Industrial Pvt. Ltd.	1.7 MW	05.11.2014

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The project is expected to generate approximately 1,51,153 MWh of electricity per year, which will be supplied to KPTCL by the project owner under a Power Purchase Agreement. Through the utilization of wind energy, the project plays a role in mitigating greenhouse gas emissions, particularly CO2 equivalents, which would otherwise originate from fossil fuel-powered thermal plants. The projected annual average reduction in CO2 equivalents from the project is estimated at 1,31,118 tonnes, with actual reductions to be documented during the initial monitoring and verification phase.

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

There are social, environmental, economic, and technological benefits that contribute to sustainable development.

• Social Benefits:

- By generating employment opportunities and enhancing the local grid overseen by the state electricity utility, the project will contribute significantly to poverty alleviation and stimulating economic growth.
- Through the utilization of renewable energy sources, the project diminishes reliance on imported fossil fuels, consequently lessening price fluctuations and enhancing energy security.

• Environmental Benefits:

- Utilizing wind energy instead of burning fossil fuels for electricity generation significantly decreases the emission of harmful pollutants, fostering cleaner air, water, and soil.
- Leveraging wind energy aids in preserving natural resources and minimizing detrimental impacts on the environment, contributing to overall ecological well-being.
- Moreover, harnessing wind energy offers a sustainable alternative to burning fossil fuels, which not only mitigates pollution but also conserves natural habitats and biodiversity, supporting healthier ecosystems and enhancing environmental resilience.

• Economic Benefits:

- The project offers employment prospects to both trained and semi-skilled workers within the wind park vicinity, encompassing temporary as well as permanent positions, thereby facilitating local economic advancement.
- Through power generation, the regional grid's performance will be enhanced, leading to increased accessibility and stability for local residents, consequently driving economic and industrial development in the vicinity and creating additional employment opportunities.

• Technical Benefits:

- Wind energy utilization provides technical benefits such as reduced mechanical complexity and modular design, making maintenance and scalability easier compared to traditional energy systems.
- Enhanced backing for wind energy initiatives will drive research and development endeavours by technology firms, resulting in the development of more sophisticated and effective equipment in the future.

United Nations Sustainable Development Goals:

SDGs	Contribution
SDG 3: Good Health and Well-being	
3 GOOD HEALTH AND WELL-BEING	- Lowers air pollution by cutting fossil fuel emissions, improving air quality and reducing respiratory issues.
<i>-</i> ₩•	- Promotes better health by increasing access to healthcare services through economic growth and job creation.
SDG 7: Affordable and Clean Energy	
7 AFFORDABLE AND CLEAN ENERGY	- Supports SDG 7 by producing renewable energy, offering a cleaner, sustainable alternative to fossil fuels.
	- Reduces dependence on imported fossil fuels, ensuring more stable energy prices and regional energy security.
SDG 8: Decent Work and Economic	
Growth 8 DECENT WORK AND ECONOMIC GROWTH	- Generates both short-term and long-term jobs in construction, maintenance, and management.
	- Drives local economic development by enhancing regional grid infrastructure, supporting industries and creating more employment.
SDG 13: Climate Action	
13 CLIMATE ACTION	- Reduces greenhouse gas emissions by replacing fossil fuel-based energy production, in line with SDG 13.
	- Prevents around 1,36,038 tons of CO2 emissions annually, significantly contributing to climate change mitigation through renewable energy adoption.

A.3. Location of project activity >>

Country: India

Village: Raybag Taluk, District: Belgaum State: Karnataka Code: 591235

The geographic co-ordinates of the project location have been given below:

WTG No.	Turbine No	Latitude	longitude
1	Raibagh-I T01	16.41927	74.88263
2	Raibagh-I T02	16.41956	74.87516
3	Raibagh-I T03	16.4203	74.86816
4	Raibagh-I T04	16.41741	74.86571
5	Raibagh-I T05	16.41691	74.86008
6	Raibagh-I T06	16.41764	74.89376
7	Raibagh-I T07	16.42221	74.8916
8	Raibagh-I T08	16.42383	74.88477
9	Raibagh-I T09	16.42803	74.88625
10	Raibagh-I T10	16.4282	74.89368
11	Raibagh-I T11	16.4316	74.90221
12	Raibagh-I T12	16.42476	74.86857
13	Raibagh-I T13	16.42945	74.86767
14	Raibagh-I T14	16.43436	74.86813
15	Raibagh-I T15	16.43866	74.86926
16	Raibagh-I T16	16.44426	74.87005
17	Raibagh-I T17	16.44878	74.87191
18	Raibagh-I T18	16.42406	74.87587
19	Raibagh-I T19	16.42861	74.87554
20	Raibagh-I T20	16.43368	74.87331
21	Raibagh-I T21	16.43734	74.87545
22	Raibagh-I T22	16.44087	74.87867
23	Raibagh-I T23	16.44565	74.88061
24	Raibagh-I T24	16.4333	74.88853
25	Raibagh-I T25	4.408931	74.8858
26	Raibagh-I T26	4.41084	74.8877
27	Raibagh-I T27	4.412487	74.88934
28	Raibagh-I T28	4.41522	74.89207
29	Raibagh-I T29	4.416025	74.89287

The representative Location of map is included below:





A.4. Technologies/measures >>

During the project's implementation, Electric Wind Energy's GE 1.7 - 103 turbines have been selected for installation at the Yelisirur site. A procurement strategy has been devised to acquire 25 units of these turbines, each with a capacity of 1.7 MW, aiming to harness an estimated annual energy potential of 151.15 MU. The primary components of the wind turbines are delineated as follows:

- **Rotor:** The rotor, with three adjustable blades, optimizes energy capture in varying wind conditions, enhancing overall efficiency and performance.
- **Gearbox:** Specially designed for high performance and noise reduction, the gearbox ensures smooth operation and longevity of the wind turbine system.
- **Braking Systems:** Blade pitching and mechanical disc brakes provide robust braking control, ensuring safe operation and quick response to varying wind speeds.
- **Generator:** A doubly-fed asynchronous machine with adjustable speed control enhances energy conversion efficiency while maintaining reliability and safety standards.
- Yaw System: Grid-fed drives and disc brakes enable precise yaw control, ensuring the turbine maintains alignment with wind direction for optimal energy capture.
- Nacelle: Featuring sound insulation and safety controls, the nacelle provides a secure environment for housing control units and emergency systems.
- **Tower:** With a modular design and corrosion protection, the tower ensures structural integrity and longevity, providing stability for the entire turbine system.

	Model No	GE 1.7–103
	WTG Make	M/s. GE India Industrial Pvt. Ltd.
	Rotor Diameter	103m
Technical Data	Cut in wind speed	3.5m/s
	Rated Wind speed	12 m/s (approx.)
	Speed	10-20 rpm
	Hub height	80m
	Number of blades	3
D	Rotor shaft tilt angle	4°
Rotor	Rotational direction	Clockwise
	Orientation to the tower	Upwind
	Туре	Planetary Spur combination
Gearbox	Rated power	1870Kw
Gearbox	Rated efficiency	N=96.8%
	Rated Power	1700Kw
	Туре	Doubly fed asynchronous generator
	Synchronous speed	1500rpm
Generator/ Transformer	Rated speed	1800rpm
	Rated efficiency	96.10%
	Adjusting Speed	0.5/sec

A.5. Parties and project participants >>

Party (Host)	Participants
India	Bhoruka Power Corporation Ltd

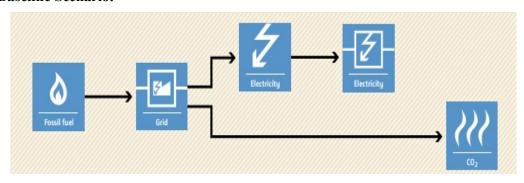
A.6. Baseline Emissions>>

The baseline scenario identified during the PCN stage of the project activity entails the following:
• Grid:

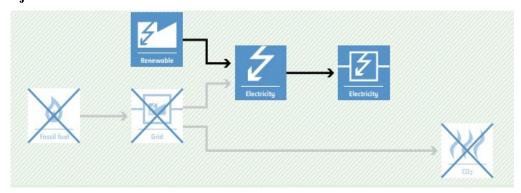
If the project activity had not been implemented, an equivalent amount of electricity would have been generated from fossil fuel-based power plants and supplied to the southern regional grid, which is part of the unified Indian Grid system. This is because the national grid primarily relies on electricity generated from fossil fuel-based power plants. Therefore, the baseline scenario of the project activity corresponds to the grid-based electricity system, which aligns with the pre-project scenario.

The Schematic diagram showing the baseline scenario:

Baseline Scenario:



Project Scenario:



A.7. Debundling>>

This project is not a debundled component of a larger registered carbon offset project activity.

SECTION B. Application of methodologies and standardized baselines

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

SECTORAL SCOPE –01 Energy industries (Renewable/Non-renewable sources

TYPE - Renewable Energy Projects

CATEGORY- ACM0002., Consolidated baseline methodology for grid-connected electricity generation from renewable sources -Version 22.0

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

Applicability Criteria.	Applicability status
1)This methodology is applicable to grid-connected renewable energy power generation project activities that: (a) Install a Greenfield power plant; (b) Involve a capacity addition to (an) existing plant(s); (c) Involve a retrofit of (an) existing operating plant(s)/unit(s); (d) Involve a rehabilitation of (an) existing plant(s)/unit(s), or (e) Involve a replacement of (an) existing plant(s)/unit(s). (f) Install a Greenfield power plant together with a grid-connected Greenfield pumped storage power plant. The greenfield power plant may be directly connected to the PSP or connected to the PSP through the grid.	The proposed project involves establishing a new grid-connected renewable wind power plant, confirming to the specified criteria.
2) In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable energy power generation project activities that: (a)Integrate BESS with a Greenfield power plant; (b) Integrate a BESS together with implementing a capacity addition to (an) existing solar photovoltaic 1 or wind power plant(s)/unit(s); (c) Integrate a BESS to (an) existing solar photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s); (d) Integrate a BESS together with implementing a retrofit of (an) existing solar photovoltaic or wind power plant(s)/unit(s). (e) Integrate a BESS together with a Greenfield power plant that is operating in coordination with a PSP. The BESS is located at site of the greenfield renewable power plant.	The project entails installing a new grid- connected renewable wind power project without the integration of a Battery Energy Storage System (BESS). Therefore, this condition does not apply to the project activity.
3)The methodology is applicable under the following conditions: (a) Hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit; (b) In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity; (c) In case of Greenfield project activities applicable under paragraph 7(a) above, the project participants shall demonstrate that the BESS was an integral part of the design of the renewable energy project activity (e.g., by referring to feasibility studies or investment decision documents); (d) The BESS should be charged with electricity generated from the	The proposed project involves installing new wind power plants without integrating a Battery Energy Storage System (BESS). Thus, the mentioned criterion does not apply

associated renewable energy power plant(s). Only during exigencies2 may the BESS be charged with electricity from the grid or a fossil fuel electricity generator. In such cases, the corresponding GHG emissions shall be accounted for as project emissions following the requirements under section 5.4.4 below. The charging using the grid or using fossil fuel electricity generator should not amount to more than 2 per cent of the electricity generated by the project renewable energy plant during a monitoring period. During the time periods (e.g., week(s), months(s)) when the BESS consumes more than 2 per cent of the electricity for charging, the project participant shall not be entitled to issuance of the certified emission reductions for the concerned periods of the monitoring period. (e) In case the project activity involves PSP, the PSP shall utilize the electricity generated from the renewable energy power plant(s) that is operating in coordination with the PSP during pumping mode 4)In case of hydro power plants, one of the following conditions shall apply: The proposed project involves the a) The project activity is implemented in an existing single or multiple installation of wind power plants/units. reservoirs, with no change in the volume of any of reservoirs; or Hence, the mentioned criterion is not b) The project activity is implemented in an existing single or multiple applicable. reservoirs, where the volume of the reservoir(s) is increased and the power density calculated using equation (7) is greater than 4 W/m2; or c)The project activity results in new single or multiple reservoirs and the power density calculate equation (7), is greater than 4 W/m2. d)The project activity is an integrated hydro power project involving multiple reservoirs, where the power density of any of the reservoirs, calculated using equation (7), is lower than or equal to 4 W/m2, all of the following conditions (i) The power density calculated using the total installed capacity of the integrated project, as per equation (8), is greater than 4 W/m2; (ii) Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity; (iii)Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m2 are: Lower than or equal to 15 MW; and Less than 10 per cent of the total installed capacity of integrated hydro power project. 5)In the case of integrated hydro power projects, project proponent shall: The proposed project activity involves the installation of wind power plants/units. Therefore, the mentioned a)Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation criteria are not applicable. capacity of the integrated hydro power project; or b)Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability indifferent seasons to optimize the water flow at the inlet of power units. Therefore this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum five years prior to implementation of CDM project activity. 6) In the case of PSP, the project participants shall demonstrate in the PDD The proposed project activity involves that the project is not using water which would have been used to generate installing wind power plants/units. electricity in the baseline. Therefore, the specified criteria are not applicable. 7) The methodology is not applicable to: The proposed project activity involves installing wind power plants/units. a)Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline Therefore, the specified criteria are not may be the continued use of fossil fuels at the site; applicable. b) Biomass-fired power plants;

8)In the case of retrofits, rehabilitations, replacements, or capacity additions, The proposed project activity involves this methodology is only applicable if the most plausible baseline scenario, as installing wind power plants/units. a result of the identification of baseline scenario, is "the continuation of the Therefore, the specified criteria are not current situation, that is to use the power generation equipment that was applicable. already in use prior to the implementation of the project activity and undertaking business as usual maintenance

B.3. Applicability of double counting emission reductions >>

To avoid double counting of emission reductions in the project, the following measures are implemented:

- The project can be distinctly identified through its precise location coordinates.
- It is equipped with a dedicated commissioning certificate and connection point.
- Energy meters specifically assigned to the project developer's consumption point are linked with the project.

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

According to the applied methodology ACM0002, Version 22.0, the project boundary encompasses both the Wind Turbine Generator (WTG) and all power plants physically connected to the same electricity system as the project power plant.

Source		Gas	Included?	Justification/Explanation
CO2 emissions	CO ₂	Yes	Main Emission Source	
ine	from electricity generation in	CH ₄	No	Minor Emission Source
Baseline	fossil fuel fired power plants that	N ₂ O	No	Minor Emission Source
are displaced due to the project activity	Other	No	No other GHG emissions were emitted from the project	
	Greenfield Wind	CO ₂	Yes	No CO ₂ emissions are emitted from the project
	Power Project Activity	CH ₄	No	Project activity does not emit CH ₄
t t		N ₂ O	No	Project activity does not emit N ₂ O
Project		Other	No	No other emissions are emitted from the project

B.5. Establishment and description of baseline scenario >>

As per the endorsed consolidated methodology ACM0002, Version 22.0, when the project activity entails the installation of a new grid-connected renewable power plant/unit, the baseline scenario is described as follows: ""The baseline scenario is electricity delivered to the grid by the project activity that would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources."

Emission reductions are calculated as follows:

$$ERy=BEy-PEy$$
 (Eq. 1)

Where,

ERy = Emissions reductions in year y (t CO2)

BEy = Baseline emissions in year y (t CO2)

PEy =Project emissions in year y (t CO2)

Baseline Emissions

The baseline emissions encompass solely the CO2 emissions stemming from electricity generation in power plants displaced by the project activity. The methodology operates on the assumption that any electricity generation exceeding baseline levels would have originated from established grid-connected power plants and the integration of new grid-connected power plants.

The Baseline emissions in year y can be calculated as follows:

$$BEy = EGPJ, y \times EFGrid, y,$$
 (Eq. 2)

Where,

BEy = Baseline emissions in year y (t CO2)

EGPJ,y= Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh)

EFGrid,y = Grid emission factor in year y (t CO2/MWh)

A "grid emission factor" denotes the CO2 emission factor (measured in tCO2/MWh) associated with each unit of electricity supplied by an electricity system. The UCR suggests employing an emission factor of 0.9 tCO2/MWh for the years 2013-2020 as a cautious estimate for Indian projects not previously verified under any GHG program. Similarly, for the vintage 2021-22, the combined margin emission factor obtained from the CEA database in India corresponds with the default value. Consequently, the same emission factor is utilized for computing emission reductions.

Regarding project emissions, ACM0002 version 22.0 specifies that only emissions related to fossil fuel combustion, emissions from the operation of geothermal power plants due to the release of non-condensable gases, and emissions from water reservoirs of hydroelectric plants should be taken into account. Since the project involves a wind power project, emissions from renewable energy plants are negligible

Hence (PEy = 0).

Leakage, as outlined in ACM0002 version 22.0, is considered to be zero as there is no transfer of energy-generating equipment in the project activity (LEy = 0).

While the actual emission reduction achieved during the initial crediting period will be submitted during the first monitoring and verification, an ex-ante estimation is provided for reference.

Estimated annual Emission Reductions (ERy) = 1,36,038CoUs/yr (1,36,038tCO2eq/yr)

S.no	Year	Baseline Emissions	Project Emissions	Leakage	Emission Reductions
		(tCO ₂ e)	(tCO ₂ e)	(tCO ₂ e)	(tCO ₂ e)
1	13-05-2014 to 31-12-2014	86,841	0	0	86,841
2	01-01-2015 to 31-12-2015	1,36,038	0	0	1,36,038
3	01-01-2016 to 31-12-2016	1,36,038	0	0	1,36,038
4	01-01-2017 to 31-12-2017	1,36,038	0	0	1,36,038
5	01-01-2018 to 31-12-2018	1,36,038	0	0	1,36,038
6	01-01-2019 to 31-12-2019	1,36,038	0	0	1,36,038
7	01-01-2020 to 31-12-2020	1,36,038	0	0	1,36,038
8	01-01-2021 to 31-12-2021	1,36,038	0	0	1,36,038
9	01-01-2022 to 31-12-2022	1,36,038	0	0	1,36,038
10	01-01-2023 to 31-12-2023	1,36,038	0	0	1,36,038
	Total Emission reduction	13,11,183	0	0	13,11,183
	Annual Average ER	1,31,118	0	0	1,31,118

B.6. Prior History>>

- 1. The project activity initially submitted a Prior Consideration under the Clean Development Mechanism (CDM) of the UNFCCC for registration on 06/12/2012. However, the project proponent did not pursue CDM registration thereafter. Currently, the project is being applied under UCR to issue carbon credits and receive carbon financing.
- 2. The project has not been applied under any other greenhouse gas (GHG) mechanism except for CDM. Additionally, for any period under UCR, CDM validation¹ and verifications have not been conducted, and no credits have been issued. Therefore, the project will not cause double accounting of carbon credits (i.e., COUs).

B.7. Changes to start date of crediting period >>

There is no change in the start date of crediting period.

B.8. 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

B.9. Monitoring period number and duration>>

First Issuance Period: 9 years, 7 months and 19 days – 13/05/2014 to 31/12/2023

B.8. Monitoring plan>>

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¹ https://cdm.unfccc.int/Projects/PriorCDM/notifications/index html

Data/Parameter	<i>EF</i> Grid,y
Data unit	tCO2 /MWh
Description	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 - 2020 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 Value(s) applied	UCRCoUStandardAug2022updatedVer6_09082222012710 4470.pdf (rackcdn.com)
Measurement methods and procedures	-
Monitoring frequency	Ex-ante fixed parameter
Purpose of data	For the calculation of Emission Factor of the grid

Data / Parameter:	EGy, net
Data unit:	MWh
Description:	Net electricity supplied to the NEWNE grid facility by the project activity.
Source of data:	Joint Meter Reading Report
Measurement procedures (if any):	Data Type: Measured Monitoring equipment: Energy Meters are used for monitoring Archiving Policy: Electronic Calibration frequency: Once in 5 years (considered as per provision of CEA India). The net electricity generated by the project activity will be calculated.
Value Applied	1,51,153.80 MWh (Annualized average value has been considered here for an ex-ante estimation only, whereas this is an-ex post parameter hence actual value shall be applied during monitoring and verification)
Monitoring frequency:	Monthly
QA/QC procedures:	Continuous monitoring, hourly measurement monthly recording. Tri-vector (TVM)/ABT energy meters with accuracy class 0.2s.
Any comment:	-