



WIND GROUPED PROJECT BY HERO FUTURE ENERGIES PRIVATE LIMITED (EKIESL-VCS-AUG-16-03)



Project title	Wind Grouped project by Hero Future Energies Private Limited (EKIESL-VCS-Aug-16-03)
Project ID	1582 ¹
Monitoring period	01-July-2022 to 30-September-2023 (First and last day included)
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Most recent date of issue	07-May-2025
Version	05
VCS Standard Version	4.7
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¹ <https://registry.verra.org/app/projectDetail/VCS/1582>

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PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The project activity involves installation and operation of a 50 Wind Turbine Generators (WTG s) of total generating capacity of 100 MW, located Dhar district of Madhya Pradesh, India. This is a grouped project activity with Hero Future Energies Private Limited as the project proponent. In order to implement wind power projects, Hero Future Energies Private Limited acting as a parent company formed different SPV (Special Purpose Vehicles) and projects are developed by name of SPVs.

SPV Name	Capacity (MW)	Village	Connect ion with grid	State	Date of Commissioning
Clean Wind Power (Ratlam) Private Limited	100	Shergadh, Gandhwada, Borjhadi, Indrawal, Panda, Khiedi, Phuledi, Kisanpura, Chandoriya. In Dhar district of Madhya Pradesh	Indian Grid	Madhya Pradesh	29-March-2016

The project activity utilizes 50 Gamesa made G97 WTGs each with capacity of 2.0 MW.

This is a Greenfield project activity and the electricity generated by this wind power project displaces an equivalent amount of electricity from the grid, which is fed mainly by fossil fuel fired power plants. Hence, it results in reduction of GHG emissions. Electricity supply from grid is considered as the baseline scenario of this project.

Process of operation of wind power plant:

The technology employed, converts wind energy to electrical energy. In wind power generation, energy of wind is converted into mechanical energy and subsequently into electrical energy. Wind power generation technology is environment friendly technology since there are no GHG emissions associated with the electricity generation. There is no transfer of technology involved in the project activity.

Brief description of the installed technology and equipment:

All the WTGs involved in the project activity are already commissioned and operational and connected to Khiledi-Phuledi substation.

Rated power	2.0 MW
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Cut-out speed	25 m/s
Cut-in speed	3 m/s
Rotor diameter	97m
Swept area	7390m ²
Control	Variable pitch and speed
Generator type	Doubly-fed generator
Transformer make	ABB
Voltage rating	33 KV /690V
Power Rating	2.3 MVA

Total emission reductions achieved in this monitoring period:

The total actual GHG Emission reductions generated in current monitoring period 01-July-2022 to 30-September-2023 are 218,032 tCO₂e through displacing 223,006.41 MWh of electricity from fossil-fuel dominated electricity grid with electricity generation using wind energy resources.

1.2 Audit History

Audit type	Period	Program	Validation/verification body name	Number of years
Validation and verification	29-March-2016 to 01-April-2017	VCS	Carbon Check (India) Private Ltd.	01 Years 00 Months 04 Days
Verification	02-April-2017 to 31-July-2020	VCS	Applus Certification	03 Years 03 Months 30 Days
Verification	01-August-2020 to 31-March-2021	VCS	Applus Certification	00 Years 08 Months 00 Days
Verification	01-April-2021 to 30-June-2022	VCS	Applus Certification	01 Years 03 Months 00 Days
Verification	01-July-2022 to 30-September-2023	VCS	VKU Certification Pvt. Ltd.	01 Year 03 Months 00 Days
Total	29-March-2016 to 30-September-2023	VCS	Carbon Check (India) Private Ltd. / Applus Certification / VKU Certification Pvt. Ltd.	07 Years 06 Months 02 Days

1.3 Sectoral Scope and Project Type

Sectoral scope²	01 Energy industries (renewable / non-renewable sources)
Project activity type	Project Type: I - Renewable Energy Projects

Sectoral scope	Not Applicable as this is not AFOLU project
AFOLU project category³	Not Applicable as this is not AFOLU project
Project activity type	Not Applicable as this is not AFOLU project

1.4 Project Proponent

Organization name	Hero Future Energies Private Limited
Contact person	Mr. Vijay Anand
Title	Assistant General Manager - HSE
Address	Unit No 89/1101A, Hemkunt Chambers, Nehru Place, Delhi, New Delhi111019
Telephone	+91 9560795517
Email	vijay.anand@herofutureenergies.com / info@herofutureenergies.com

1.5 Other Entities Involved in the Project

Organization name	EKI Energy Services Limited
Role in the project	Project Consultant
Contact person	Shital Patil
Title	Senior Executive
Address	Office No 201, Plot No 48, Scheme 78, Vijay Nagar Part- II, Indore 452010, India
Telephone	+91-9109120945

² Projects, activities, or methodologies may be developed under any of the 16 VCS sectoral scopes: <https://verra.org/programs/verified-carbon-standard/vcs-program-details/#sectoral-scopes>

³ See Appendix 1 of the VCS Standard

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1.6 Project Start Date

Project start date	29-March-2016
Justification	The first project activity instance of the grouped project under consideration was commissioned and power generation started on 29-March-2016.

1.7 Project Crediting Period

Crediting period	<input type="checkbox"/> Seven years, twice renewable <input type="checkbox"/> Ten years, fixed <input checked="" type="checkbox"/> Other (The project activity adopts renewable crediting period of 10 years period which can be renewed for maximum 2 times)
Start and end date of first or fixed crediting period	29-March-2016 to 28-March-2026

1.8 Project Location

All the project activity instances in the grouped project activity located within geographical boundaries of Republic of India. Thus, geographical area of grouped project is India.

The details of the project locations are mentioned in the table below

Name of SPVs	Capacity	State
Clean Wind Power (Ratlam) Private Limited	100	Madhya Pradesh

The geographical boundary is delineated in the form of extreme geographic coordinates of India country as follows

Latitude - 8° 4' to 37° 6' N

Longitude - 68° 7' to 97° 25' E

Project locations along with the WTG Ids are shown in below tables and figure:

Locations (geo-coordinates) of all the WTGs:

Project Company Name	WTG Id.	Geo-coordinates	
		Latitude (N)	Longitude (E)
	BD-01	22° 51' 43.9308"	75° 07' 56.6296"
	BD-02	22° 51' 38.6892"	75° 08' 06.1345"
	BD-03	22° 51' 30.2616"	75° 08' 12.1269"
	BD-04	22° 51' 24.8472"	75° 08' 27.7371"

Project Company Name	WTG Id.	Geo-coordinates	
		Latitude (N)	Longitude (E)
Clean Wind Power (Ratlam) Private Limited	BD-05	22° 51' 16.4232"	75° 08' 29.8690"
	BD-06	22° 51' 07.9128"	75° 08' 17.1575"
	BD-07	22° 50' 59.1576"	75° 08' 27.2545"
	BD-08	22° 50' 51.9504"	75° 08' 13.1062"
	BD-09	22° 50' 47.4756"	75° 08' 34.3303"
	BD-10	22° 50' 42.0324"	75° 08' 48.1143"
	BD-11	22° 50' 27.9456"	75° 09' 26.5198"
	BD-12	22° 50' 21.3684"	75° 09' 34.0208"
	BD-13	22° 50' 11.5"	75° 09' 16.2"
	BD-14	22° 50' 01.2"	75° 09' 19.3"
	BD-15	22° 50' 04.2828"	75° 09' 47.9649"
	BD-16	22° 49' 47.7840"	75° 09' 25.9122"
	BD-17	22° 49' 37.4448"	75° 09' 24.2514"
	BD-18	22° 49' 19.2036"	75° 09' 20.1610"
	BD-19	22° 49' 04.2456"	75° 09' 16.2149"
	BD-20	22° 49' 26.7780"	75° 08' 10.3897"
	BD-21	22° 49' 17.8608"	75° 08' 18.5901"
	BD-22	22° 49' 05.2"	75° 08' 17.3"
	BD-23	22° 48' 51.5052"	75° 09' 41.8092"
	BD-24	22° 48' 04.4676"	75° 09' 20.9881"
	BD-25	22° 48' 13.3848"	75° 09' 15.0701"
	BD-26	22° 48' 20.3796"	75° 09' 47.1044"
	BD-27	22° 47' 49.6896"	75° 10' 37.9280"
	BD-28	22° 48' 26.2908"	75° 10' 23.9439"
	BD-29	22° 48' 15.7212"	75° 10' 23.4395"
	BD-30	22° 48' 07.2540"	75° 10' 03.5400"
	BD-31	22° 47' 57.8508"	75° 10' 07.5974"
	BD-32	22° 47' 37.5720"	75° 10' 26.4428"
	BD-33	22° 47' 34.2780"	75° 10' 03.7803"
	BD-34	22° 47' 23.8380"	75° 09' 32.0955"
	BD-35	22° 47' 14.7552"	75° 09' 42.5720"
	BD-36	22° 50' 38.1444"	75° 09' 40.2509"
	BD-37	22° 46' 59.7"	75° 09' 31.9"
	BD-38	22° 46' 49.4832"	75° 09' 45.2778"
	BD-39	22° 46' 39.1044"	75° 09' 50.3157"
	BD-40	22° 46' 27.1128"	75° 09' 41.7443"
	BD-41	22° 46' 20.1360"	75° 09' 58.1837"
	BD-42	22° 46' 13.7"	75° 09' 37.3"
	BD-43	22° 45' 47.7108"	75° 09' 59.0913"
	BD-44	22° 45' 37.7"	75° 09' 25.9"
	BD-45	22° 45' 26.6"	75° 09' 24.7"
	BD-46	22° 45' 13.7"	75° 09' 24.2"
	BD-47	22° 45' 20.2968"	75° 09' 59.0931"
	BD-48	22° 45' 09.9360"	75° 08' 37.5553"
	BD-49	22° 45' 00.0180"	75° 08' 36.8436"
	BD-50	22° 45' 03.7332"	75° 09' 36.7372"

Location of WTGs (village, taluka, district and state):

SI No.	Project Owner	WTG id	Village	Tauka	District	State
1		BD-01	Shergadh	Badnawar	Dhar	Madhya Pradesh
2		BD-02	Shergadh	Badnawar	Dhar	Madhya Pradesh
3		BD-03	Shergadh	Badnawar	Dhar	Madhya Pradesh
4		BD-04	Shergadh	Badnawar	Dhar	Madhya Pradesh
5		BD-05	Shergadh	Badnawar	Dhar	Madhya Pradesh

SI No.	Project Owner	WTG id	Village	Tauka	District	State
6	Clean Wind Power (Ratlam) Pvt. Ltd	BD-06	Shergadh	Badnawar	Dhar	Madhya Pradesh
7		BD-07	Shergadh	Badnawar	Dhar	Madhya Pradesh
8		BD-08	Shergadh	Badnawar	Dhar	Madhya Pradesh
9		BD-09	Shergadh	Badnawar	Dhar	Madhya Pradesh
10		BD-10	Shergadh	Badnawar	Dhar	Madhya Pradesh
11		BD-11	Shergadh	Badnawar	Dhar	Madhya Pradesh
12		BD-12	Shergadh	Badnawar	Dhar	Madhya Pradesh
13		BD-13	Shergadh	Badnawar	Dhar	Madhya Pradesh
14		BD-14	Shergadh	Badnawar	Dhar	Madhya Pradesh
15		BD-15	Gand wada	Gand wada	Dhar	Madhya Pradesh
16		BD-16	Shergadh	Badnawar	Dhar	Madhya Pradesh
17		BD-17	Gand wada	Gand wada	Dhar	Madhya Pradesh
18		BD-18	Gand wada	Badnawar	Dhar	Madhya Pradesh
19		BD-19	Kisanpura	Badnawar	Dhar	Madhya Pradesh
20		BD-20	Chandoriya	Begamganj	Dhar	Madhya Pradesh
21		BD-21	Chandoriya	Begamganj	Dhar	Madhya Pradesh
22		BD-22	Chandoriya	Sardarpur	Dhar	Madhya Pradesh
23		BD-23	Borjhadi	Badnawar	Dhar	Madhya Pradesh
24		BD-24	Indrawal	Badnawar	Dhar	Madhya Pradesh
25		BD-25	Indrawal	Badnawar	Dhar	Madhya Pradesh
26		BD-26	Indrawal	Badnawar	Dhar	Madhya Pradesh
27		BD-27	Shergadh	Badnawar	Dhar	Madhya Pradesh
28		BD-28	Indrawal	Badnawar	Dhar	Madhya Pradesh
29		BD-29	Indrawal	Badnawar	Dhar	Madhya Pradesh
30		BD-30	Indrawal	Badnawar	Dhar	Madhya Pradesh
31		BD-31	Indrawal	Badnawar	Dhar	Madhya Pradesh
32		BD-32	Indrawal	Badnawar	Dhar	Madhya Pradesh
33		BD-33	Indrawal	Badnawar	Dhar	Madhya Pradesh
34		BD-34	Indrawal	Badnawar	Dhar	Madhya Pradesh
35		BD-35	Indrawal	Badnawar	Dhar	Madhya Pradesh
36		BD-36	Indrawal	Badnawar	Dhar	Madhya Pradesh
37		BD-37	Panda	Badnawar	Dhar	Madhya Pradesh
38		BD-38	Panda	Badnawar	Dhar	Madhya Pradesh
39		BD-39	Panda	Badnawar	Dhar	Madhya Pradesh
40		BD-40	Panda	Badnawar	Dhar	Madhya Pradesh
41		BD-41	Panda	Badnawar	Dhar	Madhya Pradesh
42		BD-42	Panda	Badnawar	Dhar	Madhya Pradesh
43		BD-43	Phuledi	Badnawar	Dhar	Madhya Pradesh
44		BD-44	Khiledi	Badnawar	Dhar	Madhya Pradesh
45		BD-45	Khiledi	Badnawar	Dhar	Madhya Pradesh
46		BD-46	Khiledi	Badnawar	Dhar	Madhya Pradesh
47		BD-47	Phuledi	Badnawar	Dhar	Madhya Pradesh
48		BD-48	Khiledi	Badnawar	Dhar	Madhya Pradesh

SI No.	Project Owner	WTG id	Village	Tauka	District	State
49		BD-49	Khiledi	Badnawar	Dhar	Madhya Pradesh
50		BD-50	Khiledi	Badnawar	Dhar	Madhya Pradesh

MADHYA PRADESH



1.9 Title and Reference of Methodology

Type (methodology, tool or module).	Reference ID, if applicable	Title	Version
Methodology	ACM0002 ⁴	Grid-connected electricity generation from renewable sources	17.0
Tool	Tool 07 ⁵	Tool to calculate the emission factor for an electricity system	05.0

⁴ <https://cdm.unfccc.int/methodologies/DB/8W400U6E7LFHHYH2C4JR1RJWWO4PVN>

⁵ <https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v5.0.pdf>

Tool	Tool 01 ⁶	Tool for the demonstration and assessment of additionality	07.0.0
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1.10 Double Counting and Participation under Other GHG Programs

1.10.1 No Double Issuance

Is the project receiving or seeking credit for reductions and removals from a project activity under another GHG program?

Yes No

1.10.2 Registration in Other GHG Programs

Is the project registered or seeking registration under any other GHG programs?

Yes No

1.11 Double Claiming, Other Forms of Credit, and Scope 3 Emissions

1.11.1 No Double Claiming with Emissions Trading Programs or Binding Emission Limits

Are project reductions and removals or project activities also included in an emissions trading program or binding emission limit? See the *VCS Program Definitions* for definitions of emissions trading program and binding emission limit.

Yes No

1.11.2 No Double Claiming with Other Forms of Environmental Credit

Has the project activity sought, received, or is planning to receive credit from another GHG-related environmental credit system? See the *VCS Program Definitions* for definition of GHG-related environmental credit system.

Yes No

1.11.3 Supply Chain (Scope 3) Emissions

Do the project activities affect the emissions footprint of any product(s) (goods or services) that are part of a supply chain?

Yes No

⁶ <https://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-01-v7.0.0.pdf>

Is the project proponent(s) or authorized representative a buyer or seller of the product(s) (goods or services) that are part of a supply chain?

- Yes No

Has the project proponent(s) or authorized representative posted a public statement on their website saying, “Carbon credits may be issued through the Verified Carbon Standard project [project ID] for the greenhouse gas emission reductions or removals associated with [project proponent or authorized representative organization name(s)] [name of product(s) whose emissions footprint is changed by the project activities].”

- Yes No

1.12 Sustainable Development Contributions

The Contribution to sustainable development:

Ministry of Environment, Forest and Climate Change (MoEFCC), has stipulated economic, social, environment and technological well-being as the four indicators of sustainable development. The project contributes to sustainable development using the following ways.

Social well-being:

- The project activity instances under grouped project activity have resulted in creating job opportunities for the local population on temporary and permanent basis. Manpower is required both during erection and operation of the renewable energy projects. This result in the improvement in living standards of the local community.
- The installation of the renewable energy projects also led to development of basic infrastructure like roads, communication with the nearby cities etc. which also improved in living standards of the local population.

Economic well-being:

- The project activity instances under grouped project activity have created direct and indirect job opportunities to the local community during installation and operation of the renewable energy projects.
- The investment for the project activity instances under grouped project activity has led to the improvement in the economic activity in the local area

Technological well-being: The successful operation of project activity has led to promotion of wind power generation and encouraged other entrepreneurs to participate in similar projects

Environmental well-being:

The project activity instances under grouped project activity utilizes renewable energy for generating electricity which otherwise would have been generated through alternate fuel (most likely - fossil fuel) based power plants, contributing to reduction in specific emissions (emissions of pollutant/unit of energy generated) including GHG emissions. As renewable energy projects produce no end products in the form of solid waste (ash etc.), they address the

problem of solid waste disposal encountered by most other sources of power. Being a renewable resource, to generate electricity contributes to resource conservation. Thus the project causes no negative impact on the surrounding environment.

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	<p>User defined indicator:</p> <p>Total quantum of renewable energy produced by the project activity</p>	Implemented activities to increase	Total renewable electricity produced during current monitoring period 223,006.41 MWh.	. Total renewable electricity produced from commissioning of the project up to the end date of this monitoring period is (163,712.36 +699,886.99+111,163.40+277,331.40+223,006.41) 14,75,100.56 MWh.
2)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	By supplying 223,006.41 MWh clean electricity (generated through wind project) to Indian grid, the project avoided release of 218,032 tCO ₂ e in to the atmosphere during the reporting period.	Overall prevented the release of (160,061+684,278+108,683+271,146+218,032) 14,43,200 tCO ₂ e into the atmosphere during reporting period.
3)	8.6	<p>User defined indicator:</p> <p>To train youth of age (15-24 years) by the way of</p>	Implemented activities to increase	The Project organize 01 training/ year for the staff on the monitoring of the plant operation, and the emergency and safety procedures.	Overall, 04 (02+02) trainings are provided till the current monitoring period.

		education/training			
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1.13 Commercially Sensitive Information

No commercially sensitive information has been excluded from the public version of the project description.

2 SAFEGUARDS AND STAKEHOLDER ENGAGEMENT

2.1 Stakeholder Engagement and Consultation

2.1.1 Stakeholder Identification

Stakeholder Identification

Stakeholders include various individuals, groups, and institutions who have an interest in, could be impacted by, possess the ability to significantly influence, or are crucial for achieving the desired project outcome were invited through invitation letters. There has not been any kind of discrimination (based on gender, political beliefs, religion, social status etc.) in selection of the local stakeholders and all stakeholders were invited to the LSC without any kind of filtering out or prejudices to allow them to voice their concerns and comments about the project freely. The project activity is structured to ensure that all the stakeholders especially the vulnerable part including the indigenous people, have ample scope to get involved in the process and their interests are safeguarded. Stakeholders include various individuals, groups, and institutions who have an interest in, could be impacted by, possess the ability to significantly influence, or are crucial for achieving the desired project outcome were invited through invitation letters. There has not been any kind of discrimination (based on gender, political beliefs, religion, social status etc.) At the time of Environmental & Social impact assessment of the project activity the selection of the local stakeholders and all stakeholders were invited to the LSC without any kind of filtering out or prejudices to allow them to voice their concerns and comments about the project freely.

	<p>Following stakeholders have been identified for project activity</p> <ol style="list-style-type: none"> 1. Local community members 2. Employees 3. Local government officials (e.g. village council members) 4. Local media personnel 5. Regional and national government officials (e.g. district magistrate) 6. Local NGOs <p>As per VCS Guidelines, local stakeholder consultation is not mandatory being project is under validation and DOE Contract is prior to 19-April-2017. It is mentioned in Section 5.3 of joint PD and MR dated 22-May-2017 version 3.</p>
<p>Legal or customary tenure/access rights</p>	<p>The project instance landowner has the sole legal rights to the land, which have been contractually signed over to the project proponent through an agreement.</p>
<p>Stakeholder diversity and changes over time</p>	<p>The project anticipates no significant changes over time in the composition of stakeholder diversity each group due to project activities. However, the project activities by addressing environmental, economic, and social aspects, play a crucial role in enabling local communities to stay in their current locations, fostering resilience and sustainability over time.</p>
<p>Expected changes in well-being</p>	<p>Expected changes</p> <ol style="list-style-type: none"> 1. Economic well being – the project activity is likely to provide employments to the locality thus economic well beings are expected. 2. Environmental well-being – as this project activity reduces the dependence on fossil fuels and conserves natural resources which are on the verge of depletion. Due to its zero emission the Project activity also helps in avoiding significant amount of GHG emissions and specific pollutants like SO_x, NO_x, and SPM associated with the

	conventional thermal power generation facilities.
Location of stakeholders	Location of stakeholders: Detail information of the location of grouped project are provided in section 1.8 of this monitoring report.
Location of resources	Not Applicable

2.1.2 Stakeholder Consultation and Ongoing Communication

Ongoing consultation	Stakeholders' consultation is a continuous process and hence a feedback register is kept at the project site office where any stakeholder can come and share his/her feedback. The feedback irrespective of the type is taken care by PP with utmost priority.
Date(s) of stakeholder consultation	As per section 5.3 of joint PD and MR version 3, dated 22-May-2017, local stakeholder consultation was not mandatory at the time of validation and DOE Contract is prior to 19-April-2017.
Communication of monitored results	<p>The meeting was outlined towards making aware local stakeholders including local community, local administration representatives, NGOs working for environmental cause etc., about the project activity that involves electricity generation using wind that reduced emissions of GHGs in compared to pre-project or baseline scenario.</p> <p>The feedbacks/comments received from stakeholders were no negative comments were received. The questions asked by stakeholders were only on process and these are explained by PP representatives.</p>
Consultation records	Grievance register
Stakeholder input	<p>There has been no grievance received for the current monitoring period.</p> <p>There has been no complaints request received during the verification period.</p>

2.1.3 Free, Prior, and Informed Consent

<p>Consent</p>	<p>Consent for implementing project activities involved engaging with stakeholders when Clean Wind Power (Ratlam) Private Limited initiated consultations before acquiring the land. All leased land was obtained through commercial terms, following a willing to buy and willing to sell basis.</p> <p>The project proponents fostered open dialogues, providing stakeholders ample opportunities to express concerns, ask questions, and share input. A grievance resolution mechanism (Refer Appendix R of ESIA Report) is in place to address ongoing conflicts, demonstrating the project's commitment to prioritizing resolution and community harmony. Regular stakeholder engagement will persist throughout the project lifecycle to address evolving concerns and ensure ongoing support.</p> <p>Through this comprehensive process, the project not only obtained consent but also built a foundation of trust and cooperation with stakeholders, resulting in no ongoing or unresolved conflicts.</p>
<p>Outcome of FPIC</p>	<p>The result of the FPIC and stakeholder consultation is positive, with stakeholders expressing their support for the project.</p>

2.1.4 Grievance Redress Procedure

Grievances received	Resolution and outcome
<p>Development process</p>	<p>The project team devised a structured process in a culturally appropriate manner for receiving input and addressing grievances, through initial consultations with stakeholders. After being accepted by the majority without further input, the procedure was finalized. Feedback register is kept at project site office where any stakeholder can come and register his/her feedback. For current</p>

	monitoring period no any grievance registered. Neither community members nor employees have filled out the grievance register.
Grievance redress procedure	The grievance redress procedures Include clear definitions of what constitutes a grievance, the types of grievances covered, Stakeholders’ feedback is monitored daily and any grievance if found, resolved immediately

2.1.5 Public Comments

Summary of comments received	Actions taken
No comments received	No comments received

2.2 Risks to Stakeholders and the Environment

2.2.1 Management Experience

The management team has extensive experience in the implementation of wind power plant projects, ensuring efficient planning and execution. With a proven track record, they have successfully managed multiple projects involving renewable energy infrastructure. Their expertise includes site assessment, resource management, and adherence to regulatory compliance. The team has worked closely with local communities, ensuring their involvement through stakeholder meetings and capacity-building initiatives. They excel in fostering sustainable development while addressing environmental and social considerations. Previous projects highlight their ability to deliver on-time and within budget. Their commitment to engaging communities ensures long-term support and project success.

Below is the project that implemented by Hero Future Energies Private Limited

VCS 1946: Renewable Wind Power Project by Hero Future Energies⁷

2.2.2 Risk assessment

	Risk identified	Mitigation or preventative measure taken

⁷ <https://registry.verra.org/app/projectDetail/VCS/1946>

<p>Natural and human-induced risks to stakeholders' wellbeing</p>	<p>No risk identified</p>	<p>The project is carefully designed and implemented to ensure minimal impact on the rights of stakeholders. Through comprehensive planning and adherence to regulatory standards, the project aims to mitigate potential negative effects on nearby residents, environmental quality, and community well-being.</p>
<p>Risks to stakeholder participation</p>	<p>No risk identified</p>	<p>There are no exclusions, lack of communication or barriers in the project activity, that might prevent stakeholders from engaging or participating.</p>
<p>Working conditions</p>	<p>No risk identified</p>	<p>This project activity is a wind project activity which is 15-20 KM away from the residence of the stakeholder. Still, from time-to-time stakeholders are advised to stay away from electrical components.</p>
<p>Safety of women and girls</p>	<p>No risk identified</p>	<p>Meetings are held with stakeholders on women's safety and stakeholders are made aware of women's safety. And meeting held with women's stakeholders for mitigating their vulnerability to potential incidents.</p>
<p>Safety of minority and marginalized groups, including children</p>	<p>No risk identified</p>	<p>Ensuring by the project participant the safety of minority and marginalized groups, including children, is paramount in wind project. And for this, meetings are held with the stakeholders from time to time.</p>
<p>Pollutants (air, noise, discharges to water, generation of waste, release of hazardous</p>	<p>No risk identified</p>	<p>This project activity is a wind project activity, hence there is no any discharge of water and no any pollutants of air and noise due to</p>

materials)		<p>project activity. Wind turbines for the project of Gamesa make G97-2.0 MW. The model has aerodynamic design of the blade tip and mechanical components design minimize noise emissions. In addition, Gamesa has developed the Gamesa NRS noise control system, which makes it possible to program the turbine to reduce noise emissions accordingly to such criteria as the date, time or wind direction. This operational mode and mechanical design improvement contributes considerably to minimization of noise.</p>
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2.3 Respect for Human Rights and Equity

2.3.1 Labor and Work

	Risks identified ⁸	Mitigation or preventative measure(s) taken
Discrimination	No risk identified	<p>PP has provided declaration that no discrimination has occurred or will occur. PP shall oblige to create a workplace free of no discrimination as per local law. The PP strictly follows the national laws prohibiting discrimination. There has been no reports of discrimination for this monitoring period.</p>
Sexual harassment	No risk identified	<p>PP has provided declaration that sexual harassment has occurred</p>

⁸ The identified risks and commensurate mitigation or preventative measure(s) for forced labor, child labor, and human trafficking, must be inclusive of staff and contracted workers employed by third parties.

		or will occur. PP shall oblige to create a workplace free of sexual harassment as per local law. The PP strictly follows the national laws prohibiting sexual harassment. There have been no reports of sexual harassment for this monitoring period.
Gender equity in labor and work	No risk identified	PP has provided declaration that it does not discriminate in workers with respect to gender in providing jobs and also there is no discrimination in respect to wages between genders. .PP provides equal opportunities in the context of gender equity and pay for labor and work.
Forced labor	No risk identified	PP has provided declaration that project activity does not and will not use victims of forced labor.
Child labor	No risk identified	PP has provided declaration that project activity does not and will not use victims of child labor.
Human trafficking	No risk identified	PP has provided declaration that project activity does not and will not use victims of human trafficking.

2.3.2 Human Rights

Risks identified	Mitigation or preventative measure(s) taken
No Risk Identified	The following demonstrations show how the project is committed to safeguard the rights of IPs, LCs, and customary right holders, while following the international human rights law, the UNDRIP and ILO Convention 169- Free, Prior, and Informed Consent (FPIC): As the project is located in PP's property, so it is

	<p>not affecting IPs, LCs, and customary rights holders. Hence consent not required.</p> <p>Non-discriminatory Participation in the Project Activity: The project is a wind project activity which is implemented without cultural or social biases, safeguarding the rights of IPs, LCs, and customary rights holders to be free from discrimination.</p> <p>Employment due to the Project Activity: The project activity also leads to the employment of person from for IPs, LCs and customary right holders, enabling them to exercise their right to fair treatment in employment and salary.</p> <p>Right to maintain, control, protect and develop the cultural heritage: The project activity is not implemented or developed on any tangible cultural heritage, and also, doesn't affect the intangible cultural heritage of the IPs, LCs and customary right holders. Instead, it promotes the cultural harmony through collective engagement of IPs, LCs and customary right holders</p>
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2.3.3 Indigenous Peoples and Cultural Heritage

Risks identified	Mitigation(s) or preventative measure taken
No risk Identified.	The involvement of the indigenous communities is ensured since the commencement of the project activity. The project does not involve any activity that could potentially impact the indigenous people and the cultural heritage of the project area. The project activity adopted a holistic approach that combines climate change mitigation and environmental conservation with socio-economic development, respecting the traditional knowledge and cultural values of indigenous communities. The Project is not directly or indirectly affecting the dignity, human

	rights, livelihood systems, or culture of Indigenous Peoples (IPs), neither it affects the territories or natural or cultural resources that IPs own, use, occupy, or claim as their ancestral domain. PP is committed to protect regional as well as national cultural heritage
--	--

2.3.4 Property Rights

Risks identified	Mitigation or preventative measure(s) taken
No Risk Identified	The project proponent has acquired the land to installed 100 MW Wind Power project located in Shergadh, Gandhwada, Borjhadi, Indrawal, Panda, Khiedi, Kisanpura, Chandoriya, Phuledi Dhar. PP acquired the land through commercial negotiations, following a willing buyer willing seller approach. As a result, the project site does not involve any territories or resources to which the stakeholders have customary rights or access.

2.3.5 Benefit Sharing

Summary of the benefit sharing plan	The project does not involve any territories to which the stakeholders have customary rights and therefore benefit sharing is not applicable and hence no benefit sharing plan has been designed.
Benefit sharing during the monitoring period	Not Applicable

2.4 Ecosystem Health

	Risk identified	Mitigation or preventative measure taken during the monitoring period

Impacts on biodiversity and ecosystems	No risk identified	The project activity involves tree planting which has a positive impact on the biodiversity as well as the ecosystem in the project area. The project activity doesn't pose any risk to the biodiversity and ecosystems; Hence no mitigative and preventive measures are required.
Soil degradation and soil erosion	No risk identified	The project might lead to soil erosion during the construction phase. However, mitigation measures implemented, such as recovering topsoil stripped during clearing and construction The project activity involves the tree planting which mitigates soil erosion and soil degradation by increasing the binding capacity of the soil and improving the soil fertility. Hence no mitigative and preventive measures are required.
Water consumption and stress	No risk identified	Water consumption and stress aren't identified in the project area; hence no preventive and mitigative measures are required.

2.4.1 Rare, Threatened, and Endangered species

Species or habitat	The project activity is not located in or adjacent to habitats for rare, threatened, or endangered species; hence not Applicable
Areas needed for habitat connectivity	Not Applicable

	Risks identified	Mitigation or preventative measure(s) taken
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Habitats for rare, threatened, and endangered species	No risk identified	Not Applicable
Areas for habitat connectivity	No risk identified	Not Applicable

2.4.2 Introduction of species

This is not a AFOLU project and doesn't involve introduction of any species into the project area, hence this section is Not Applicable

Species introduced	Classification	Justification for use	Adverse effects and mitigation
Not Applicable	Not Applicable	Not Applicable	Not Applicable

Existing invasive species	Mitigation measures to prevent spread or continued existence of invasive species
Not Applicable	Not Applicable

	Risks identified	Mitigation or preventative measure(s) taken
Invasive species	Not Applicable	Not Applicable

2.4.3 Ecosystem conversion

	Risks identified	Mitigation or preventative measure(s) taken
Ecosystem conversion	No Risk identified	Since, the project activity is neither ARR, ALM, WRC nor ACoGS, hence this is not Applicable

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The project activity involves the installation of 100 MW (2 MW X 50 Nos) of wind power project located in Dhar district of Madhya Pradesh. The project has been commissioned and the

monitoring equipment's were installed to monitor the parameters as described in the registered Joint PD & MR all the WTGs involved in the project activity are already commissioned and operational and connected to Khiledi-Phuledi substation.

Project Company Name	Capacity (MW)	Date of Commissioning
Clean Wind Power (Ratlam) Private Limited	100	29-March-2016

The project is running smoothly since commissioning, there were no any instances occurred that would alter the GHG reductions, methodology applicability and monitoring procedure. This went for the schedule maintenance at regular intervals. The WTGs are under operation including scheduled shutdowns during the current monitoring period and no major breakdown/ event has been identified which may impact GHG emission reduction. The details of plant breakdowns in the current monitoring period are provided in APPENDIX 3.

3.2 Deviations

3.2.1 Methodology Deviations

No methodology deviation is applied during the monitoring period.

3.2.2 Project Description Deviations

The geo-coordinates of some project site (BD 13, BD 14, BD 22, BD 37, BD 42, BD 44, BD 45, and BD 46) and tehsil of BD 22 and BD 18 mentioned in the registered VCS PD was found incorrect and thus same is corrected now. This editorial permanent change does not have any impact on project design as this was editorial mistake and there is no change in locations of involve WTGs since commissioning. The editorial permanent change in geo-coordinates having no impact on project design, applicability of methodology, monitoring approach, additionality, baseline scenario, emission reduction, and its calculations.

Table 2 Geocoordinates as per joint PD-MR and changed in the current MP

WTG ID	Geocoordinates as per the registered VCS joint PD & MR	Changed geocoordinates during current monitoring period
BD-13	22° 50' 11.9544" 75° 09' 16.2562"	22° 50' 11.5" 75° 09' 16.2"
BD-14	22° 50' 11.9544" 75° 09' 16.2562"	22° 50' 01.2" 75° 09' 19.3"
BD-22	22° 49' 17.8644" 75° 08' 17.2920"	22° 49' 05.2" 75° 08' 17.3"
BD-37	22° 46' 49.4976" 75° 09' 31.8804"	22° 46' 59.7" 75° 09' 31.9"
BD-42	22° 46' 16.2552" 75° 09' 37.3478"	22° 46' 13.7" 75° 09' 31.9"
BD-44	22° 45' 37.6632" 75° 09' 25.9061"	22° 45' 37.7" 75° 09' 25.9"

BD-45	22° 45' 37.6632" 75° 09' 25.9061"	22° 45'26.6"75° 09'24.7"
BD-46	22° 45' 37.6632" 75° 09' 25.9061"	22° 45'13.7"75° 09'24.2"

Table 3 Tehsils as per joint PD MR and corrected Tehsils

WTG ID	Tehsil as per registered VCS joint PD & MR	Corrections during current monitoring period
BD-18	Gandhwada	Badnawar
BD-22	Begamganj	Sardarpur

3.3 Grouped Projects

No new project activity instance has been included in the grouped project activity during the current monitoring period.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

Yes No

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	Calculated from CEA database, Version 11, April 2016
Value applied	0.9941
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 05.0" as 3-year generation weighted average using data for the years 2012-13, 2013-14 and 2014-15. The data are obtained from "CO ₂ Baseline Database for Indian Power Sector" version 11, published by the Central Electricity Authority, Ministry of Power, Government of India.

Purpose of data	Calculation of baseline emissions
Comments	The value is fixed and it is same 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	Calculated from CEA database, Version 11, April 2016
Value applied	0.9285
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 05.0” as 3-year generation weighted average using data for the years 2012-13, 2013-14 and 2014-15. The data are obtained from “CO ₂ Baseline Database for Indian Power Sector” version 11, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of data	Calculation of baseline emissions
Comments	The value is fixed and it is same 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
Source of data	Calculated from CEA database, Version 11, April 2016
Value applied	0.9777
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 05.0.0”. The data is obtained from “CO ₂ Baseline Database for Indian Power Sector” Version 11, April 2016, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of data	Calculation of baseline emissions
Comments	The value is fixed and it is same for the entire crediting period

4.2 Data and Parameters Monitored

Data / Parameter	EG _{facility, y}
Data unit	MWh

Description	<p>Quantity of net electricity supplied (MWh) to the grid as a result of the implementation of the project activity instances in year y</p>
Source of data	<p>Credit Report /JMR as per Monthly Generation Report</p>
Description of measurement methods and procedures to be applied	<p>Data Type: Measured</p> <p>Monitoring equipment: Energy Meters are used for monitoring</p> <p>Recording Frequency: Continuous monitoring and Monthly recording from Energy Meters, Summarized Annually</p> <p>Archiving Policy: Paper & Electronic</p> <p>Calibration frequency: Once in five years</p> <p>Electricity exported/imported to the grid is in kWh. However, for the calculation purpose electricity exported is converted in MWh.</p> <p>The Net electricity supplied to the grid by the project activity is calculated as a difference of electricity exported to the grid, electricity imported from the grid obtained from joint meter reading certificates/credit notes issued by state electricity board as per below equation:</p> $EG_{\text{facility,y}} = EG_{\text{Export}} - EG_{\text{Import}}$ <p>The joint reading at metering point is carried out once in a month in presence of O&M officials and state electricity board personnel. The calculations/measurement of net electricity supplied to grid is under purview of state electricity board and the PP/Project activity Instance owner has no role on it. PP/Project activity Instance owner received value of net electricity supplied to grid and hence this parameter is mentioned as a part of monitoring plan.</p> <p>Cross Checking: Quantity of net electricity supplied to the grid is cross checked from the invoices raised by the PP to the State Electricity Board or invoices with third party</p>
Frequency of monitoring/recording	<p>Continuous monitoring and monthly recording</p>
Value monitored	<p>223,006.41</p>
Monitoring equipment	<p>Monitoring equipment is the energy meters installed at each of the project activity instance site. Readings are cross checked with back up meter (Check Meter). The accuracy class of meters, calibration frequency of meters is totally under purview of state electricity board and PP do not have any control on it. Details of energy meters have been provided in APPENDIX 2.</p>

QA/QC procedures to be applied	The calibration of all the meters is undertaken once in five years and faulty meters are duly replaced immediately. The meters are of accuracy class 0.2s. The meter accuracy class and calibration interval is under purview of state electricity board and PP/Project Activity Instances owner do not have any control on it. It is also noted that apportioning procedure (if applicable for project activity instances) is under control of state electricity board and PP do not have any control on it. The available parameter to PP/project activity instance owner is the net electricity supplied to grid and same parameter is mentioned as monitoring parameter.
Purpose of the data	Calculation of baseline emissions
Calculation method	This is a measured parameter and if any calculation is required, the calculation is based on measured parameters.
Comments	The Monitored Data is kept for a minimum of two years after the end of the crediting period or the last issuance whichever is later.

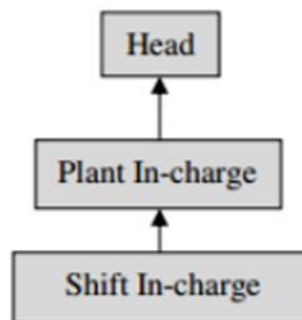
4.3 Monitoring Plan

The monitoring plan, which is implemented by the project proponent describes about the monitoring organization, parameters is 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 on the project proponent.

Project proponent follows the structure for data monitoring, collection, data archiving and calibration of equipment for this project activity instances as given below:

The team comprises of the following members:

Organisational Structure for Monitoring



Project proponent has assigned the responsibility of operation and maintenance of project activity instances with relevant and authorized O&M contractors. The Plant In-charge and Shift In-Charge are deployed by O&M contractors.

Responsibilities of Head: Overall functioning and maintenance of the data.

Responsibilities of Plant In-charge: Responsibility for Maintaining the data records, to ensure completeness of data and reliability of data (calibration of equipment).

Responsibilities of Shift In-charge: Responsibility for day-to-day data collection and maintains day-to-day log book for monitored data.

In the event when the individual verification period dates and billing cycle dates of the project activity do not coincide, then the electricity export is apportioned based on number of days. The ratio of number of days under monitoring period and total number of days under billing cycle is multiplied to total electricity export to billing cycle.

In general wind projects do not involve common metering, however for project activity instances which involves wind projects with common metering, apportioning is followed to determine net electricity export to grid. The apportioning procedure is not under control of PP, thus value of net electricity supplied to grid is available to PP and same is mentioned as monitoring parameter. The value of net electricity supplied to grid is used for ER calculations. It is noted that the metering arrangement, accuracy class of meters, feeder arrangements, calibration frequency of meters are under control of state electricity board and PP do not have any control on it. Thus, any deviation at actual site or during verification is accepted.

QA & QC Procedures are followed

Necessary check meters as required are installed, to operate in standby mode or when the main meters are not working. All meters are calibrated at least once in five years as per CEA notification. Records of calibration certificates are maintained for verification. Hence, high quality is ensured with the above parameters. The calibration of meters is under purview of state electricity board and CME/ project activity instances owner do not have any control on it.

Data Recording and Storage

For measuring the net energy supplied to grid by the project activity instances at the interconnection point, one set of Main meter and Check Meter is provided. Representatives of both project activity instances owner and state utility are present to record the monthly meter readings. The state utility prepares the credit report for the net energy supplied to the grid and same is used as a basic document for monitoring and verification of the net energy supplied to the grid. Based on the monthly credit report, the project activity instances owner raises an invoice to the utility. Utility pays to the project activity instances Owner based on this document.

The above document is kept at safe storage for verification of emission reductions generated from the project activity. The period of data storage is 2 years beyond crediting period.

Emergency preparedness

The project activity does result in any unidentified activity that can result in substantial emissions from the project activity. However, in case monitoring equipment get failed or found faulty, these are replaced with calibrated meters as quickly as possible. In case main meter get failed or found faulty, the reading of check meter is considered.

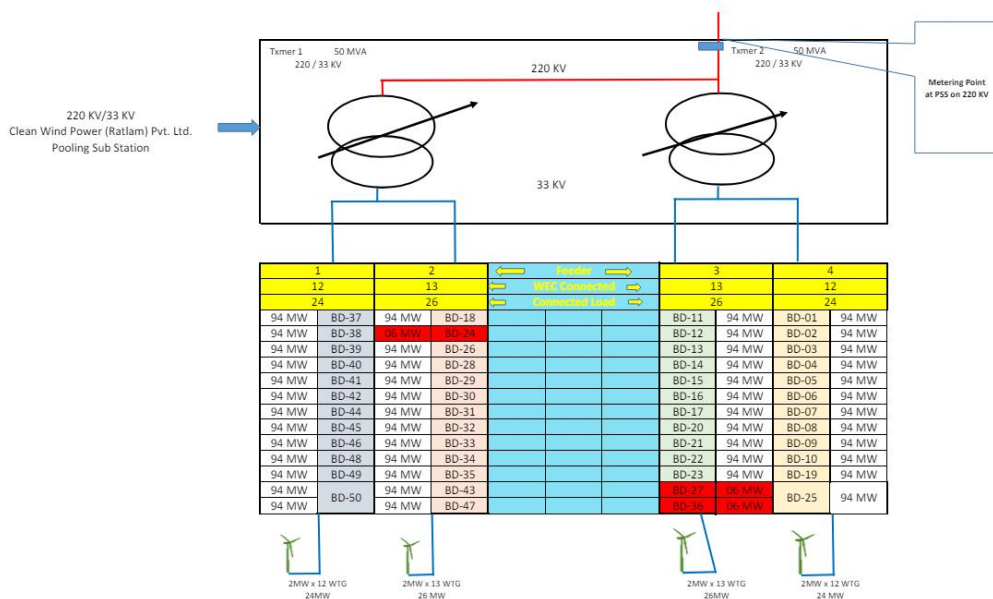
Personnel training

In order to ensure a proper functioning of the project activity instances and a properly monitoring of emission reductions, the staff are trained. The Shift In-charge and Plant In-charge are trained in equipment operation, data recording, operation and maintenance and emergency procedures in compliance with the monitoring plant.

Emergency preparedness:

In case Main meter or Check meter is found outside the acceptable limits of accuracy or faulty or not functioning properly, it is repaired, recalibrated or replaced as soon as possible. In the event that the Main meter is not in service as a result of maintenance, repairs or testing, the Check meter is used for readings.

Single line diagram of the project activity



Procedures for internal audit of compliance with monitoring procedures

- An internal audit team comprising of the VCS Head, Shift In-charge, and other members (if needed by the VCS Head) are independently conduct internal audit of monitored data. The internal audit is conducted at least once every year and more than once if required by the VCS Head.

- The internal audit team is reviewing all the records pertaining to energy generation, exports, imports. The team is also checking the monitoring equipment's for accuracy and whether calibration was performed.
- The VCS Head in association with the Shift – in – charge is answering all the queries raised by the internal audit team
- The internal audit team has communicated to the VCS Head and Shift-in-charge(s) about the non-compliances (if any) with the monitoring plan. The internal audit team are also suggesting corrective actions and indicate areas of improvement to the personnel involved in monitoring the data.
- VCS Head is close the non-conformances prior to the verification visit by the DOE.

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

The baseline emission calculation for the project activity instances is attributable to the CO₂ Emission that could have been produced by the fossil fuel-based power plants in absence of the proposed project activity. Therefore, the amount electricity supplied to the Indian grid has been multiplied by the grid emission factor of Indian grid to calculate the baseline emissions reduced by the proposed project activity.

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

Where,

BE_y = Baseline Emissions (tCO₂/year)

$EG_{\text{facility}, y}$ = Quantity of net electricity supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)

$EF_{\text{grid}, CM, y}$ = CO₂ emission factor of the grid in year y (tCO₂/MWh)

The calculation of yearly baseline emissions is provided in the table below:

Parameter	$EG_{\text{facility},y}$	$EF_{\text{grid},CM,y}$	BE_y
Year	MWh	tCO ₂ /MWh	tCO ₂
01-July-2022 to 31-December-2022	74,518.40	0.9777	72,856
01-January-2023 to 30-September-2023	148,488.01	0.9777	145,176
Total	223,006.41		218,032

5.2 Project Emissions

As per methodology, for renewable energy projects, there is no project emissions occurred. Hence, $PE_y = 0 \text{ tCO}_2\text{e}$

5.3 Leakage Emissions

As per methodology ACM0002, Version 17.0, no Leakage emissions are considered. The main emission potentially giving rise to leakage in the context of electrical sector projects is emission arising due to activities arising such as power plant construction and upstream emission from fossil fuel use (e.g. extraction, processing, and transport). These emission sources are neglected.

As per methodology, for renewable energy projects, there is no any leakage emissions occurred. Hence, $LE_y = 0$

5.4 GHG Emission Reductions and Carbon Dioxide Removals

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCUs (tCO ₂ e)	Removal VCUs (tCO ₂ e)	Total VCUs (tCO ₂ e)
01-July-2022 to 31-December-2022	72,856	0	0	72,856	0	72,856
01-January-2023 to 30-September-2023	145,176	0	0	145,176	0	145,176
Total	218,032	0	0	218,032	0	218,032

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
01-July-2022 to 31-December-2022	86,350	72,856	-15.63%	-
01-January-2023 to 30-September-	128,117	145,176	13.32%	-

2023				
Total	214,467	218,032	1.66%	<p>The actual ER is about 1.66 % higher than the estimated ER. 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. However, this higher value does not impact the additionality of project activity as the estimated PLF is 20%, while the actual PLF during the monitoring period is 20.03%. The actual PLF exceeds the estimated value by about 0.33%; nevertheless, the project remains well below the breaching threshold of 65.30% as per Section 2.5 of the registered PDD & MR and it does not have any impact on project additionality.</p>

APPENDIX 1: COMMERCIALY SENSITIVE INFORMATION

No commercially sensitive information has been provided in the monitoring report.

APPENDIX 2: METER CALIBRATION DETAILS

Meter Details	Main meter	Check meter
Meter serial number	MPC74061	MPC74060
Meter make	Secure	Secure
Accuracy class	0.2s	0.2s
Calibration date	13-March-2016	13-March-2016
Due date of calibration	12-March-2021	12-March-2021
Calibration date	03-January-2020	03-December-2019
Due date of calibration	02-January-2025	02-December-2024

Old meters MPC 74061 and MPC 74060 was replaced with new meters Q0594085 and Q0594086 respectively on dated 18-August-2022. Details of new meters are below:

Meter Details	Main meter	Check meter
Meter serial number	Q0594085	Q0594086
Meter make	Secure	Secure
Accuracy class	0.2s	0.2s
Calibration date	18-August-2022	18-August-2022
Due date of calibration	17-August-2027	17-August-2027

APPENDIX 3: MAJOR BREAKDOWN DETAILS

Date	WTG	BD Type	Total Stop	Reason of Breakdown
25-10-2022	BD-16	USMH	23:59:59	Incorrect speed reading
27-12-2022	BD-29	USMH	23:43:00	MV Switch Trip From Top Cabinet button or Latched Control
01-04-2023	BD-40	USMH	23:59:59	Error in phase R of the rectifier
02-06-2023	BD-40	USMH	20:53:00	Main bearing replacement work
06-08-2023	BD-02	USMH	20:34:00	Yaw Motor Over Current
19-09-2023	BD-31	USMH	23:59:59	Preload failure

APPENDIX 4: TRAINING RECORDS (SDG 8.6)

Training Attendance Sheet HFE/HSE/SOP-29/C-2



Site/Project Name- Clean Wind Power (Kattam) Pvt. Ltd

Date- 01/07/2023

Time- 14:00 PM

Topic- power Tools Safety


Conducted By- Md- Patel

Total Number of Participant- 10

Duration of Training- 30 min

S.No.	Name	Designation	Signature
1	Krishnales Bairagi	Engineer	<i>Krishnales</i>
2	Subrat m. Borin	Engineer	<i>SUB</i>
3	Tanveer Ansari	Engineer	<i>Tanveer</i>
4	Pradeep katore	Tech.	<i>Pradeep</i>
5	Devilal Vankar	Tech.	<i>Devilal</i>
6	Aray singh Dewar	Tech.	<i>Aray</i>
7	Deepak Maurya	Engineer	<i>Deepak</i>
8	Suresh Kataria	ciss	<i>Suresh</i>
9	Bhanuvar Singh	ciss	<i>Bhanuvar</i>
10	Umesh jaiswal	Hei	<i>Umesh</i>

Md- Patel
Signature of Trainer

TRAINING ATTENDANCE		HEF/HSE/TA-2015-16/V-1.0	
		 planet positive power	
Project Name:- Clean Wind Power (Ratlam) Pvt.Ltd.		Training sr. no. : 71	
Training Title: USE OF PPE'S		Faculty:KESAVAN	
Contractors Name:- 1.VOMS 2. CISS 3.		Date: 10/10/2022 Venue: PSS	Start Time: 14:00 Hrs End Time: 16:00 Hrs Duration: 02:00 Hrs
Sr. No.	Name of the participant	Designation & Company	Signature

1	<i>H. Kesavan</i>	Engg	<i>[Signature]</i>
2	<i>Devital Varde</i>	Tech.	<i>[Signature]</i>
3	<i>Umesh Jaishwal</i>	HEL.	<i>Umesh</i>
4	<i>R. THAVIVURAJ</i>	ENGL	<i>R. Thiruvajal</i>
5	<i>Abay Singh Dewar</i>	Tech.	<i>[Signature]</i>
6	<i>Bhanwar Singh</i>	SEC.	<i>[Signature]</i>
7	<i>Dharmendra</i>	Sec.	<i>[Signature]</i>
8	<i>Sunil Kushwah</i>	Tech.	<i>[Signature]</i>
9	<i>Mitesh Dewar</i>	Tech	<i>[Signature]</i>
10	<i>Subrat Kumar Barik</i>	Engg	<i>Subrat</i>
11	<i>Pradeep Katore</i>	Tech	<i>[Signature]</i>
12	<i>Sunil Kushwah</i>	Tech	<i>[Signature]</i>
13			
14			