



**Verified Carbon
Standard**

INNER MONGOLIA YIHEWUSU PHASE II 49.5 MW WIND POWER PROJECT

Document Prepared by

China Carbon N.V.

Contact Information

Project Title	Inner Mongolia Yihewusu Phase II 49.5 MW Wind Power Project
Version	03
Report ID	-
Date of Issue	21-April-2023
Project ID	1001
Monitoring Period	25-April-2021 to 31-December-2022
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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The project activity is a wind farm project located in Ordos city, Inner Mongolia, in the People's Republic of China which is to use wind resource for electricity generation. The installed capacity of the project activity is 49.5MW consisting of 66 sets of wind turbine with unit capacity of 0.75MW. The average annual power delivered to the grid by the project is expected to be 101,689 MWh.

The Project can reduce GHG emissions by replacing the electricity generated by fossil fuel fired power plants of North China Power Grid (NCPG). It's estimated that the proposed project could achieve GHG emission reductions of 84,086 tCO₂e annually. The baseline scenario is the same as the scenario existing prior to the start of the implementation of the project activity: electricity delivered to the Grid by the project would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources.

The project started construction on 15/09/2008, and operation started on 25/06/2009. The project was registered as a CDM project (No. 3490) on 25/11/2010, and was registered as a VCS project (No. 1001).

During this monitoring period (25/04/2021 to 31/12/2022) covered in the 2nd crediting period, the monitoring activities were conducted strictly in accordance with the monitoring plan in the registered VCS PD. The project has operated without any accidental or emergency events that might impact the accuracy and/or implementation of monitoring activities. The net power supply during this monitoring period is 146,788.50 MWh. The total emission reductions in this monitoring period (25/04/2021 to 31/12/2022) are 121,378 tCO₂e.

Audit history of the project:

Audit Type	Period	Program	VVB Name	Number of years
Validation	08/03/2010	CDM	Korean Foundation for Quality (KFQ)	/
Validation	02/06/2021	VCS	CCSC	/
Verification	01/07/2009 to 24/11/2010	VCS	Bureau Veritas Certification	512 days (1 years and 147 days)
Verification	25/11/2010 to 20/11/2012	CDM (status: Awaiting issuance request)	Bureau Veritas Certification	727 days (1 years and 361 days)

Verification	21/11/2012 to 20/01/2013	CDM (status: Awaiting issuance request)	CCSC	61 days (0 years and 61 days)
Verification	21/01/2013 to 20/12/2015	CDM	CCSC	1064 days (2 years and 334 days)
Verification	21/12/2015 to 24/06/2019	VCS	LGAI Technological Center, S.A. (Applus+)	1282 days (3 years and 186 days)
Verification	25/06/2019 to 24/04/2021	VCS	CCSC	670 days (1 years and 304 days)
Verification	25/04/2021 to 31/12/2022	VCS	CCSC	616 days (1 year and 251 days)
Total	01/07/2009 to 31/12/2022	CDM and VCS	/	4932 days (13 years and 184 days)

1.2 Sectoral Scope and Project Type

Sectoral scope 1: Energy industries (renewable/non-renewable sources)

Project type: Grid-connected wind power project.

The project is not a grouped project.

1.3 Project Proponent

Organization name	Inner Mongolia Xinjin Wind Power Co., Ltd.
Contact person	Li Qiang
Title	Director
Address	Shengli South Street, Xini Town, Hangjin County, Ordos City, Inner Mongolia, China.
Telephone	+86 134 8882 3841
Email	99824178@qq.com

1.4 Other Entities Involved in the Project

Organization name	China Carbon N.V.
Role in the Project	Buyer
Contact person	Yiyu Li

Title	Manager
Address	Zuidplein 138, 1077 XV Amsterdam
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1.5 Project Start Date

The project started operation on 25/06/2009 on which the VCS project began reducing GHG emissions.

1.6 Project Crediting Period

1st renewable crediting period: 25/06/2009 to 24/06/2019, which covers 10 years.

2nd renewable crediting period: 25/06/2019 to 24/06/2029, which covers 10 years.

This monitoring period is covered by the 2nd crediting period.

The duration of the 2nd crediting period has been determined during the crediting period renewal of the project.

1.7 Project Location

The Project is located in Ordos city, Inner Mongolia, in the People's Republic of China, and the geographical coordinates are E 107°31'42" Longitude, N 40°07'02" Latitude.

1.8 Title and Reference of Methodology

Approved consolidated baseline and monitoring methodology ACM0002.version 20.0-“Grid-connected electricity generation from renewable sources”

The methodology also refers to the approved version for the following tool:

- Tool to calculate the emission factor for an electricity system, version 07.0.0
- Assessment of the validity of the original/current baseline and update the baseline at the renewal of the crediting period, version 03.0.1

Reference:

<http://cdm.unfccc.int/methodologies/PAmethodologies/approved.html>

1.9 Participation under other GHG Programs

The Project was registered as a CDM project on 25/11/2010 (Ref. 3490). The first CDM crediting period is from 25/11/2010 to 24/11/2017. 3 monitoring periods have been requested for CDM issuance, referring to section 1.1.

The emission reductions during this monitoring period (25/04/2021 to 31/12/2022) will only apply for issuance under VCS, which is ensured by the statement that the PP will not request the issuance of CERs under CDM and the VCUs will not be double counted.

1.10 Other Forms of Credit and Supply Chain (Scope 3) Emissions

Emission Trading Programs and Other Binding Limits

China has a national emissions trading scheme only cover the high-emission industries, such as thermal power generation, petrochemical, chemical, building materials, iron and steel, non-ferrous, paper, aviation and other key emission industries that emitted at least 26,000 tons of CO₂e/year, not including renewable project¹.

Thus, the project proponent: Inner Mongolia Xinjin Wind Power Co., Ltd. as an enterprise for renewable energy investment, is not included in the compliance entity list by China national Emission Trading Scheme (ETS). Moreover, the project has not been registered as a CCER (Chinese Certified Emission Reductions) project in China, thus it is not eligible for emission reductions transaction under the China's ETS.

Therefore, the project does not reduce GHG emissions from activities that are included in an emissions trading program or any other mechanism that includes GHG allowance trading. The net GHG emission reductions generated during this monitoring period have not been used for compliance under such programs or mechanisms. Furthermore, a statement on no double counting will be submitted to Verra to confirm the credits during this monitoring period has not been counted and will not be counted under emission trading programs and other binding limits.

Other Forms of Environmental Credit

The project has not sought or received another form of GHG-related environmental credit, including renewable energy certificates, during this monitoring period.

Supply Chain (Scope 3) Emissions

N/A, as the project only produce and supply electricity with no emissions, and the project does not affect emissions associated with a good or service.

1.11 Sustainable Development Contributions

The Project activity will not only supply renewable electricity to grid, but also contribute to sustainable development of the local community, which mainly include the following:

¹ http://www.mee.gov.cn/xgk/2018/xgk/xgk05/202103/t20210330_826728.html

- The project utilizes wind resources to generate and supplied 146,788.50MWh renewable electricity to the power grid during this monitoring period, which contributes to SDG 7.
- The project provides 10 long-term job opportunities for local residents during this monitoring period, which has a positive effect on the local economy which contributes to SDG 8.
- The project utilizes zero-emission wind power to supply electricity to the grid, and reduces 121,378 tCO₂e of GHG emissions during this monitoring period, which contributes to SDG 13.

Table 1: Sustainable Development Contributions

Row number	SDG Target	SDG Indicator	Net Impact on SDG Indicator	Current Project Contributions	Contributions Over Project Lifetime
1)	7.2	7.2.1 Renewable energy share in the total final energy consumption	Implemented activities to increase	The project has provided 146,788.50 MWh renewable energy generation during this monitoring period.	This is the first time that the project began to report sustainable development contributions, and the project has provided 146,788.50 MWh renewable energy generation during this monitoring period. The project has provided 146,788.50 MWh renewable energy generation accumulated at the end of this monitoring period.

2)	8.5	8.5.1 Average hourly earnings of employees, by sex, age, occupation and persons with disabilities	Implemented activities to increase	The project has employed 10 persons including 7 men and 3 women during this monitoring period with yearly average salary higher than the local average salary of the respective years (http://tj.nmg.gov.cn/files_pub/content/PAGEPACK/cd1ebd873e844e50844846b25256a59b/zk/indexch.htm). <table><tr><th>Year</th><th>Average yearly salary of the project (CNY)</th><th>Local average salary (CNY)</th></tr><tr><td>2021</td><td>106,742</td><td>93,266</td></tr><tr><td>2022</td><td>112,983</td><td>N/A</td></tr></table>	Year	Average yearly salary of the project (CNY)	Local average salary (CNY)	2021	106,742	93,266	2022	112,983	N/A	Employed about 10 persons yearly.
Year	Average yearly salary of the project (CNY)	Local average salary (CNY)												
2021	106,742	93,266												
2022	112,983	N/A												
3)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	By supplying 146,788.50 MWh renewable energy to the grid, the project has prevented the release of 121,378 tonnes of carbon dioxide into the atmosphere during the monitoring period.	This is the first time that the project began to report sustainable development contributions, and the project has prevented the release of 121,378 tonnes of carbon into the atmosphere during this monitoring period. The project prevented the release of 121,378 tonnes of carbon into the atmosphere accumulated at the end of this monitoring period.									

2 SAFEGUARDS

2.1 No Net Harm

The project uses wind to generate electricity. It is environmentally friendly and there is no harm to the environment. An Environmental Impact Assessment (EIA) for the project was completed in 2008 by Inner Mongolia Institute of Electricity Power Survey and Design. The EIA was approved by Inner Mongolia Environmental Protection Bureau on 07/05/2008. A summary of the EIA is presented below.

There is no transboundary impact related to the Project, and there is no requisite resettlement or relocation of population, buildings, or public services. Therefore, social and environmental influences are considered partial, short-term, and reversible. Where impacts of the project were identified, mitigation measures were suggested and defined. The EIA highlights the following with regards to the Project, as shown in the following discussion.

Noise

The noise pollution mainly comes from the manual drills and cement mixers during the construction period, and aerodynamic interaction between the wind and turbine blades during operation. The noise levels will be naturally attenuated by ambient conditions. It is stated in the EIA that the project location is far away from the nearest resident area. Therefore, the noise of the turbines will not affect the local residents.

Solid Waste

Most of the waste produced during the construction shall be landfilled or disposed of in an appropriate solid waste disposal site. The household waste will be collected and sent to the local refuse dump.

Wastewater and sewage

The total amount of waste water and sewage from the operation of the project will be very small. The wastewater and sewage from the construction and operational periods will be treated and reused for plant irrigation, which indicates no impact on the surrounding environment.

Ecological impact

The wind farm is in an area of natural grassland. During the construction period, some vegetation will be affected, but this will be restored within a short period. The installation height of the turbines is lower than 100m, so there is not expected to be any significant effect on birds' migration. In conclusion, the construction work of this project is not expected to affect the local ecological environment.

With mitigation controls planned as part of the Project construction and EIA process, and the contribution made by the project to sustainable development for the local and national area, the Project is expected to have an overall positive impact on the local and global environments. Mitigation measures will ensure that there are no significant residual impacts associated with the Project.

2.2 Local Stakeholder Consultation

Local Stakeholder Consultation during the project preparation stage:

The stakeholder consultation for the Project activity took place during May 2009. The consultation invited local stakeholders to submit comments on the Project activity by filling in a questionnaire sent out by the Project Developer. The Project Developer put the notice at the gate of the Hangjin county government office. The notice included a technical description of the Project as well as a brief explanation of how the project activity mitigates climate change through the Clean Development Mechanism of the Kyoto Protocol, and brings other sustainable development benefits. The questionnaires were sent out around the project site. The questions asked were as follows:

- What impacts do you think the CDM Project activity will have on the local environment?
- What impacts do you think the CDM Project activity will have on employment in the local area?
- What impacts do you think the CDM Project activity will have on your livelihood?
- What impacts do you think the CDM Project activity will have on social welfare in the local area?
- What would be the overall effects of the construction and operation of the CDM Project?
- What is your attitude towards the construction of the CDM Project?

31 questionnaires were sent to the stakeholders by the Project Developer. The stakeholders are all local residents including governmental officials (2 people), local residents (26 people) and related employees (3 people). A full list of stakeholders consulted is available from the Project Developer.

Local Stakeholder Consultation during the project implementation stage:

Appointed working staff taking charge of the stakeholder communicating via email/phone calls which have published to local people and village committees.

There is a Notebook near the notice board of the local village. All the local stakeholders can write their comments, suggestions, or complains in the Notebook anytime during the lifetime of the project. The project owner will check the book every month. There are no negative comments received for the project. In line with VCS requirements all the processes have been implemented to receive comments from local stakeholders as well as communicate with them at periodic intervals. The project proponent organized a meeting with the local stakeholders to collect their comments and suggestions yearly. The stakeholders meeting during this monitoring period was completed on 18/03/2022.

2.3 AFOLU-Specific Safeguards

The project is a non-AFOLU project, and this section is not required.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The total installed capacity of the Project is 49.5MW consisting of 66 sets of wind turbine with a unit capacity of 0.75MW. See Table 2 below for key technical specifications.

Table 2. Major technical parameters of the key equipment of the Project

Wind turbines	
Parameter	Value
Type	Jinfeng S50/750
No. of vane	3
Rated power(kW)	750
Rotor diameter(m)	50
Cut-in speed(m/s)	3.5
Cut-off speed(m/s)	25
Rated-speed(m/s)	14-15
Hub height(m)	60
Manufacturer	Xinjiang Goldwind Science & Technology Co., Ltd.

No abnormal circumstance occurred during this monitoring period. There is no event or situation occurred during the monitoring period, which may impact the applicability of the methodology and may impact the GHG emission reductions or removals and monitoring. The project was operational as normal during the monitoring period.

3.2 Deviations

3.2.1 Methodology Deviations

There is no methodology deviation in this monitoring period.

3.2.2 Project Description Deviations

During the first CDM verification, there has been a post-registration change (PRC) to the monitoring plan, in order to revise the meter number and location for monitoring the electricity data. This PRC has been approved by CDM-EB on 26/08/2013, and does not impact the applicability of the methodology, additionality or the appropriateness of the baseline scenario since it relates to the change to the monitoring plan.

There was no project description deviation during this monitoring period.

3.3 Grouped Projects

The Project is not a grouped project.

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

Data / Parameter	$EF_{grid,CM,y}$
Data unit	tCO ₂ e/MWh
Description	The combined margin grid emission factor of the North China Power Grid where the Project connected to
Source of data	VCS-PD of the 2 nd crediting period
Value applied	0.8269
Justification of choice of data or description of measurement methods and procedures applied	Determined ex-ante and fixed for the 2 nd crediting period
Purpose of Data	Calculation of baseline emissions.
Comments	-

4.2 Data and Parameters Monitored

Data / Parameter	$EG_{facility,y}$
Data unit	MWh
Description	Net electricity supplied by the project to the grid in year y
Source of data	Electricity Meter Quantity of net electricity generation supplied by the project to the grid in year y ($EG_{facility,y}$) are calculated by power exported to the grid ($EG_{PJ\ to\ grid,y}$) and used from the grid ($EG_{grid\ to\ PJ,y}$) as below: $EG_{facility,y} = EG_{PJ\ to\ grid,y} - EG_{grid\ to\ PJ,y}$ For both power exported to the grid ($EG_{PJ\ to\ grid,y}$) and power used from the grid ($EG_{grid\ to\ PJ,y}$) are all sourced from Meter Reading Records (MRRs) issued by the project owner, and Electricity Transaction Notes (ETNs) issued by the grid company covering monitoring period.
Description of measurement methods and procedures to be applied	Both $EG_{PJ\ to\ grid,y}$ and $EG_{grid\ to\ PJ,y}$ are monitored continuously through the two-way metering equipment (Key meter) at the onsite substation.

Frequency of monitoring/recording	Continuously monitored and monthly recorded
Value monitored	146,788.50
Monitoring equipment	See table below. The monitoring meter is the key Meter, and a check meter is installed in case the key meter is malfunctioned. During this monitoring period, the key meter has operated normally. Type: Bidirectional electricity meter Accuracy class: 0.2S Serial number: 94349628 (key Meter) Calibration frequency: Once per year Date of calibration: 22/04/2021; 16/02/2022 Calibration validity: until 15/02/2023 Calibration entity: Electric energy Measuring and Testing center of Inner Mongolia Electric Power Science Research
QA/QC procedures to be applied	Cross-checked with Electricity Transaction Notes (ETNs). A check meter (S/N: 94349626) was installed in case the key meter is malfunctioned, which has been calibrated on the same dates when the key meter has been calibrated.
Purpose of the data	Used for baseline emission calculation
Calculation method	Calculated by $EG_{facility,y} = EG_{PJ\ to\ grid,y} - EG_{grid\ to\ PJ,y}$
Comments	-

4.3 Monitoring Plan

The monitoring set-up for this Project has been developed to ensure that from the start, the Project is well organised in terms of the collection and archiving of complete and reliable data.

1. CDM monitoring Organisation

Roles and responsibilities will be defined for relevant staff involved in CDM monitoring, and the prospect of nominating a CDM Manager will be considered. If appointed, the CDM Manager will have the overall responsibility for the monitoring system on this project. All staff involved in the collection of data and records will be coordinated by him.

2. Staff training

Training is conducted on-site to ensure that staffs are capable of performing their designated tasks to high standards. This will include CDM specific training to warrant that they understand the importance of complete and accurate data and records for CDM monitoring.

3. Maintenance and calibration of monitoring equipment

The electricity meter(s) measuring power output to the grid will be calibrated in line with the relevant national standard. The meter(s) measuring electricity supply will maintain accuracy within 0.5%.

4. Data collection and record-keeping arrangements

The meter installed at the high voltage side of the on-site transformer is used to obtain the amount of electricity effectively supplied to the Grid and the amount of imported electricity from the Grid. The electricity generated and consumed by the facility is collected and recorded monthly on a day designated by the grid company, meanwhile the net electricity exported onto the net is calculated automatically by the computer, this method of calculation is accepted by the Inner Mongolia Power (Group) Co., Ltd.

The meter recording value should be cross checked with the Electricity Transaction Notes (ETNs) issued by Grid Company. The monitoring system is as following:

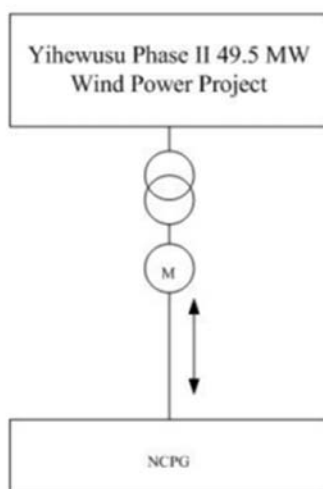


Figure 1. Line diagram

5. Data Quality Control and Quality Assurance

All data collected on-site will be checked internally before being compiled in an electronic format, to ensure that it is complete and of appropriate quality. The responsible company or person will perform a final check of the data, and analyse project performance prior to any verification.

6. Emergency plan

In case of emergencies, which means that under the condition that project entity cannot monitor the main meter due to the unexpected accident, the project entity follows the following procedure: In case the key meter is malfunctioned due to the unexpected accident, the data monitored by the check meter will be used, and will be confirmed between the grid company and the project proponent. During this monitoring period, no emergency happened.

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

As per the registered PD, the baseline emission of the project is calculated as below:

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

Table 3 Baseline emissions calculation

Year	EG _{facility,y}	EF _{grid,CM,y}	BE _y
	MWh	tCO ₂ e/MWh	tCO ₂ e
2021 (25/04/2021 to 31/12/2021)	64,122.32	0.8269	53,022
2022 (01/01/2022 to 31/12/2022)	82,666.18	0.8269	68,356
Total	146,788.50	0.8269	121,378

The monitored monthly electricity data is shown in the tables below:

Table 4 Monitoring results (MWh)

Period		EG _{PJ} to grid,y			EG _{grid} to PJ,y			EG _{facility,y} = EG _{PJ} to grid,y - EG _{grid} to PJ,y (G=C-F)
Start	End	Values from meter readings (A)	Values from Electricity Transaction Notes (ETNs) (B)	Conservative values (C=min[A,B])	Values from meter readings (D)	Values from Electricity Transaction Notes (ETNs) (E)	Conservative values (F=max[D,E])	
		MWh	MWh	MWh	MWh	MWh	MWh	MWh
25/04/2021	25/05/2021	13,075.29	13,075.29	13,075.29	40.85	40.85	40.85	13,034.44
26/05/2021	24/06/2021	7,157.54	7,157.54	7,157.54	51.24	51.24	51.24	7,106.30
25/06/2021	25/07/2021	6,277.92	6,277.92	6,277.92	60.97	60.97	60.97	6,216.95
26/07/2021	25/08/2021	5,517.41	5,517.41	5,517.41	57.47	57.47	57.47	5,459.94
26/08/2021	24/09/2021	4,763.62	4,763.62	4,763.62	53.64	53.64	53.64	4,709.98
25/09/2021	25/10/2021	6,808.91	6,808.91	6,808.91	59.60	59.60	59.60	6,749.31
26/10/2021	24/11/2021	10,384.65	10,384.65	10,384.65	43.58	43.58	43.58	10,341.07
25/11/2021	25/12/2021	9,022.64	9,022.64	9,022.64	51.59	51.59	51.59	8,971.05
26/12/2021	31/12/2021	1,551.68	1,551.68	1,551.68	18.40	18.40	18.40	1,533.28
Subtotal in 2021		/	/	/	/	/	/	64,122.32
01/01/2022	25/01/2022	3,827.74	3,827.74	3,827.74	96.86	96.86	96.86	3,730.88
26/01/2022	23/02/2022	3,553.38	3,553.38	3,553.38	125.12	125.12	125.12	3,428.26
24/02/2022	25/03/2022	9,487.09	9,487.09	9,487.09	58.24	58.24	58.24	9,428.85
26/03/2022	24/04/2022	10,839.98	10,839.98	10,839.98	33.21	33.21	33.21	10,806.77
25/04/2022	25/05/2022	9,253.81	9,253.81	9,253.81	44.57	44.57	44.57	9,209.24
26/05/2022	24/06/2022	6,473.57	6,473.57	6,473.57	51.63	51.63	51.63	6,421.94
25/06/2022	31/07/2022	8,332.57	8,332.57	8,332.57	51.23	51.23	51.23	8,281.34
01/08/2022	31/08/2022	4,725.90	4,725.90	4,725.90	66.79	66.79	66.79	4,659.11

01/09/2022	30/09/2022	6,287.08	6,287.08	6,287.08	53.96	53.96	53.96	6,233.12
01/10/2022	31/10/2022	5,241.60	5,241.60	5,241.60	76.58	76.58	76.58	5,165.02
01/11/2022	30/11/2022	5,876.07	5,876.07	5,876.07	60.54	60.54	60.54	5,815.53
01/12/2022	31/12/2022	9,566.56	9,566.56	9,566.56	80.44	80.44	80.44	9,486.12
Subtotal in 2022		/	/	/	/	/	/	82,666.18
Total		-	-	148,025.01	-	-	1,236.51	146,788.50

5.2 Project Emissions

As per the methodology and the registered PD, the project emission is 0.

5.3 Leakage

As per the methodology and the registered PD, the leakage is 0.

5.4 Net GHG Emission Reductions and Removals

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
2021 (25/04/2021 to 31/12/2021)	53,022	0.00	0.00	53,022
2022 (01/01/2022 to 31/12/2022)	68,356	0.00	0.00	68,356
Total	121,378	0.00	0.00	121,378

Comparison of the actual emission reductions with the estimated values of this monitoring period is analysed as follows:

<u>Ex-ante emissions reductions /removals</u>	<u>Achieved emissions reductions /removals</u>	<u>Percent difference</u>	<u>Justification for the difference</u>
141,910	121,378	Actual emission reductions are 14.47% lower than the ex-ante amount.	Annual estimated emission reductions are 84,086 tCO₂e Total days during this monitoring period are 616 days Calculated estimation of the emission reductions: $84,086 * 616 / 365 = 141,910$ tCO₂e

			The actual emission reductions achieved during this monitoring period are 14.47% lower than the estimated ex-ante amount, resulting from lower wind power resources during this monitoring period.
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