



CECIC GANSU YUMEN CHANGMA DABA NORTH WIND FARM PROJECT

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Project ID	1940
Monitoring period	30-December-2021 to 31-December-2022
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Version	Version 03
VCS Standard Version	VCS standard version 4.7
Prepared by	Smart Carbon Environment & Energy Limited

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1. PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

CECEP Gansu Yumen Changma Daba North Wind Farm Project (hereinafter referred as “the Project”) is located at Changma, Yumen Town, Gansu Province, China, which is a new-built project and operated by CECEP Wind Power (Gansu) Co., LTD.

The total installed capacity of the Project is 48 MW equipped with 16 sets of wind turbine generators with a unit capacity of 3 MW.

The purpose of this project is to export electricity to Northwest Power Grid (NWPG) to replace equivalent electricity that would have been provided by other fossil fuel power plants. And the electricity delivered by this Project is 101.04 GWh annually, equivalent to 2,105 operating hours with full capacity. By replacing equal amount of electricity which is originally generated by the fossil fuel fired power plants within the grid system, the Project with almost zero emission would reduce GHG emission. It is estimated that the resulting CO₂ emission reductions would be about 90,531 tCO₂ annually.

The Project started construction on 10-November-2011.

The Project started commissioning on 01-January-2013.

This monitoring period is from 30-December-2021 to 31-December-2022. The emission reductions in this monitoring period are 88,692 tCO₂.

1.2 Audit History

Audit type	Period	Program	Validation/verification body name	Number of years
Validation	13-January-2012 to 03-July-2012	CDM	TÜV Rheinland (China) Ltd.	/
Verification	01-January-2013 to 31-December-2015	CDM	CTI Certification Co., Ltd	3.0
Verification	01-January-2016 to 30-June-2019	VCS	LGA Technological Center S.A. (Applus+ Certification)	3.5
Verification	01-July-2019 to 29-December-2021	VCS	LGA Technological Center S.A. (Applus+ Certification)	2.5
Verification	30-December-2021 to 31-December-2022	VCS	CTI Certification Co., Ltd	1.0
Total	01-January-2013-31-December-2022	CDM&VCS		10.0

1.3 Sectoral Scope and Project Type

Sectoral scope ¹	Sectoral scope 1: energy industries (renewable - - non-renewable sources).
Project activity type	Renewable energy Projects. Grid connected wind power project

Sectoral scope	Not applicable as this is not an AFOLU project
AFOLU project category ²	Not applicable as this is not an AFOLU project
Project activity type	Not applicable as this is not an AFOLU project

1.4 Project Proponent

Organization name	CECEP Wind Power (Gansu) Co., Ltd.
Contact person	Lv Xin
Title	Office manager
Address	12F, A Building Jieneng Mansion, No.42 Xizhimen North Street, Haidian District, Beijing, 100082
Telephone	+86-10-62248705
Email	lvxin@cecwpc.cn

1.5 Other Entities Involved in the Project

Organization name	Smart Carbon Environment & Energy Limited
Role in the Project	Consultancy
Contact person	Li Jing
Title	Manager
Address	No.145 Chaoyang North Road, Chaoyang District, Beijing, P. R. China.

¹ 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>

² See Appendix 1 of the VCS Standard

Telephone	86-13810160876
Email	carbon@bjsmartcarbon.com

1.6 Project Start Date

Project start date	01-January-2013
Justification	It is the date when the first turbine was commissioned, which is also the first date that generates GHG emission reductions.

1.7 Project Crediting Period

Crediting period	☐ Seven years, twice renewable ☐ Ten years, fixed ☒ Other The project was registered under VCS version 3, according to the registered VCS PD, the first crediting period under VCS is from 01-January-2013 to 31-December-2022 (10 years, twice renewable). Therefore, the total crediting period under VCS would have been from 01-January-2013 to 31-December-2042 (30 years). However, the project is also a registered CDM project (Ref.6596) with a 7*3 renewable project crediting period, the VCS issuance is not eligible for beyond the end of those 21 years. Furthermore, given that the VCS crediting period started on 01-January-2013 and the lifetime of the project is about 20 years, the project was registered under CDM on 17-July-2012. And the total crediting period under CDM is from 01-January-2013 to 31-December-2023 (21years). The total crediting period under VCS is from 01-January-2013 to 31-December-2023
Start and end date of first or fixed crediting period	01-January-2013 to 31-December-2022

1.8 Project Location

The Project is sited at Changma, southwest of Yumen Town, Gansu Province, P.R. China. The Project has central geographical with east longitude of 96.7843° and north latitude of 40.0841° in a region with the approximate scope of (E96.7389°, N40.0972°), (E96.8333°, N40.0972°), and (E96.7597°, N40.0578°), shown from the official approval document.

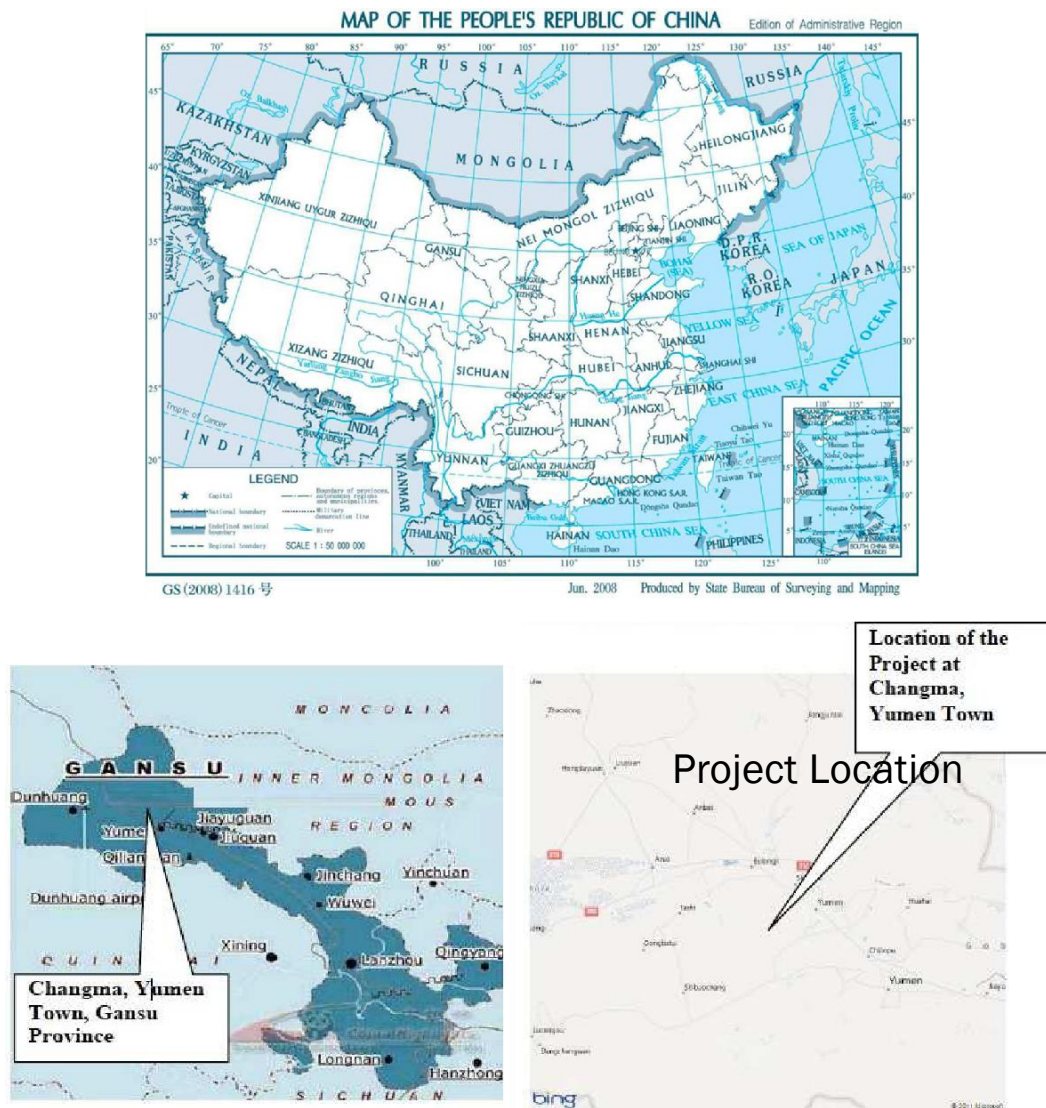


Figure 1. Project location

1.9 Title and Reference of Methodology

Type (methodology, tool or module).	Reference ID, if applicable	Title	Version
Methodology	ACM0002	Grid-connected electricity generation from renewable sources	Version 12.2.0
Tool	07	Tool to calculate the emission factor for an electricity system	Version 07.0.0

Tool	01	Tool for the demonstration and assessment of additionality	Version 05.2.1
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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

If yes, provide required evidence of no double issuance as outlined by the VCS Standard.

1.10.2 Registration in Other GHG Programs

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

☒ Yes ☐ No

This project has been registered as a CDM project on 17-July-2012, the UNFCCC reference number is 6596. and the emission reductions during 01-January-2013 to 31-December-2015 were issued as CER. During this monitoring period, the project owner does not registered this project in any other credit system and only applied for emission reduction under the VCS mechanism.

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

If yes, provide all required evidence of no double claiming as outlined by the VCS Standard.

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?

The proposed project is a wind power project to generate electricity using wind power resources in the project region and to deliver to the Northwest China Power Grid (NWPG). The project does not use any products in the supply chain other than wind sources. Therefore, the project activities do not affect the emissions footprint of any products.

☐ Yes

☒ No

1.12 Sustainable Development Contributions

The Project promotes sustainable development through the following aspects:

The Project is expected to produce various benefits to society as well as the environment. Therefore, the Project will significantly contribute to national as well as local sustainable development, including:

SDG8:Job creation: From the operation start date of this project activity to the end of this monitoring period, 15 people were employed including 7 females and 8 males.

SDG7:Increase of renewable power supply: During this monitoring period 98,996.655 MWh of electricity from renewable sources has been exported to the power grid.

SDG13:Reduction in GHG emissions: The project activity achieves 88,692 tCO₂e emission reduction in this monitoring period. Thus, the project achieved SDG 13 Climate Action.

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	During this monitoring period, 98,996.655 MWh of electricity from renewable sources has been exported to the power grid.	From the operation start date of this project activity to the end of this monitoring period 938,277.784 MWh of electricity from renewable sources has been exported to the power grid.
2)	8.3	8.3.1 Proportion of Informal employment in non-agriculture employment, by sex	Implemented activities to increase	No further changes this monitoring period	The project activity generates long-term working opportunities for 15 people during the construction period. From the operation start date of this project activity to the end of this monitoring period, 15 people were employed including 7 females and 8 males.
3)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	During this monitoring period, the project has achieved GHG emission reductions of 88,692 tCO ₂ e.	From the operation start date of this project activity to the end of this monitoring period, the project has achieved GHG emission reductions of 840,646 tCO ₂ e.

1.13 Commercially Sensitive Information

No commercially sensitive information has been excluded from the public version of the monitoring report.

2 SAFEGUARDS AND STAKEHOLDER ENGAGEMENT

2.1 Stakeholder Engagement and Consultation

2.1.1 Stakeholder Identification

Stakeholder Identification	The stakeholders have been identified as individuals who will be directly or indirectly impacted due to the project activity. Direct stakeholders are those who deemed to either have a direct influence on the project or be directly influenced by the project, including but not limit to staff of the wind power project and local residents.		
	Stakeholder Category	Direct-Indirect Affected Direct	Relevance to the Project Activity
The staff of the wind power project	Direct		The project provided jobs for them.
Local residents around the project site	Direct		The project can provide them with new jobs and renewable energy.
Local government including development and reform commission, ecological	Direct		Approval for construction and operation of the project.

	environment bureau		Daily supervision of normal operation of the project.
Legal or customary tenure-access rights	The project is located in Gobi Desert areas, which is owned by the state as stipulated by law. Before the construction of the project, local Development and Reform Commission and Ecological Environment Bureau approved the land use and project construction on behalf of the local government. There is no uncertainty or change in land tenure arrangements, resource access rights, community-based property rights and customary rights, access rights or land ownership.		
Stakeholder diversity and changes over time	Stakeholder diversity: The staff of the project, the local residents around the project site, and the local government are affected by the project activity directly. Part of employees are mainly from the project area, and they have different levels of education and skills, and income levels may vary. The farmers around the project live in different villages, and they may have different social networks and ways of interacting. Workers in government departments may come from different backgrounds and have different expertise and experience. Government authorities are responsible for regulating and approving the operation of the project, and different government authorities may have different policies and regulations. Over time, the members of each group will adjust, but their groups will not change much in terms of society, economy, culture, etc.		
Expected changes in well-being	The implementation of the project is expected to have a positive impact on the well-being and other characteristics of stakeholders. Relative to the baseline scenario of electricity delivered to NWPG by the project that would otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources into the grid, the project bring about the following changes:		

	Local people's well-being: The construction and operation of the project provide employment opportunities for the local people, 15 persons have been employed by the project as long-term employee period. Social welfare: The implementation of the project promoted the local economic development, and provided employment opportunities. Climate change Impact: The Project generates electricity from renewable source to displace equal electricity generated from NWPG, which is dominated by fossil fuel fired power plants. Consequently, the atmospheric quality is improved by reducing the fossil fuel fired. Collectively, these changes will have a positive impact on villagers' livelihoods and living environment around the project site.
Location of stakeholders	This project is a wind power project, which is located in Gobi Desert areas, not towns or urban residential areas. It is expected to be affected by the project in the villages near the project. That is Yumen Town, Yumen City, Gansu Province, P. R. China. The project is geographically located in Gobi Desert areas, which is about 500m from the local people live area. The stakeholders, in Yumen Town can use the electricity generated by this renewable power plant and have chances to be employed by the project. The areas outside the project area that are predicted to be impacted by the project is the other counties near Yumen Town, Yumen City, Gansu Province, P. R. China, the peoples live in the area can also use the electricity generated by this renewable power plant. The project has no negative impacts on these peoples.
Location of resources	The location of territories and resources which stakeholders own or to which they have customary access are located in Yumen Town, Yumen City, Gansu Province, P. R. China.

2.1.2 Stakeholder Consultation and Ongoing Communication

Ongoing consultation	For continuous communication with local stakeholders, the project owner public its office telephone to local people and put a grievance notebook in the office of the company. Anyone who have comments on the project could write on the book or leave messages by phone.
Date(s) of stakeholder consultation	30-December-2021 to 31-December-2022 (this monitoring period)
Communication of monitored results	This project is a wind power project, according to the requirements of methodology, the parameters that need to be monitored are the electricity supplied to the grid and imported from grid. The monitoring data during a monitoring period will be compiled into a monitoring report and published on the VCS website, anyone who concerns about this project can know the monitoring results in time. At the same time, comments and suggestions from stakeholders regarding the project will also be recorded, and the handling results will be notified to stakeholders via phone or other contact information left by the stakeholders.
Consultation records	For the comments and suggestions from stakeholders on the grievance notebook, the project manager will handle these suggestions, they will communicate with the stakeholders through phone or other contact information left by the stakeholders, and notify them of the final handling results. All the comments and suggestions, the communication process, and the final results will be recorded as a report, which will be saved in the company's management documents. During this monitoring period, the project has not received any complaints, comments or suggestions from stakeholders, therefore, no records on the process or methods to document the outcomes of the stakeholder consultation.
Stakeholder input	During this monitoring period, the project has not received any complaints by telephone or in the grievance notebook from stakeholders.

2.1.3 Free, Prior, and Informed Consent

Consent

In order to obtain the consent and reach a transparent agreement from the stakeholders involved in the implementation of the project activities in Yumen Town, Yumen City, Gansu Province, P. R. China., Consultations were carried out in the Yumen Town by the project owner on 04-August-2011.

The consultations included two parts. One is questionnaire survey, and the another is the meeting among local people with the developer.

Conclusions of the questionnaire:

The questionnaires were sent to 49 respondents and the survey had a 100% response rate. The statistical results of the questionnaire survey to the stakeholders are summarized as following:

Indicator	Total	Male	Female	Young (10-35)	Middle (36-55)	Elder (56-70)
Respondents	49	29	20	27	20	2

Questionnaire	Yes (Num.)	No (Num.)	Not clear (Num.)
1. Do you think whether the Project will benefit to the mitigation of Greenhouse Gas?	35	7	7
2. Do you feel any negative impact on surrounding environment (air, noise & water) by the project construction?	1	42	6
3. Are there any adverse impacts on your whole family's life, work and study	1	48	0

by the project construction?					
4. Whether the completion of the project will bring about positive impacts to you?			48	0	1
5. Which issue you are most concerned with during the construction and operation period of the project?			(Multi options)		
Noise	Air Pollution	Equip ment safety	Waste water discha rge	Electro magne tic wave disturb	Sight damage
19	9	22	6	6	17
6. Do you agree with the development & construction of the project?			45	0	4

Most respondents (45/49) agree and support the development of the Project. Some respondents provide their concern in the section of Question 5 and descriptive questions on the possible negative impacts possibly caused by the Project, including equipment safety and grass and road destroy etc., which possibly occur at the period of construction and all of these were mentioned and designed to be solved in EIA report.

Conclusions of the meeting discussions:

With respect to local economic development, this wind farm project is expected to greatly promote the development of wind power in Gansu. Hopefully this project could also help drive the local economic growth and contribute much to local fiscal revenues. Wind electricity can provide “green energy” for the Gansu power grid and boost local sustainable development.

With respect to environmental protection, the environmental impact analysis (EIA) for this project shows that noise level associated with the operation of this wind-turbine can meet the permitted range of China’s national standard. As is known this project is geographically located far from the

	downtown of Changma, apparently without the possibility of telecommunication signal jamming. In addition, no migratory bird is flying over this region. With respect to local people's life and employment, the project is basically without negative impact on the people's daily life, but can be possible to employ some local farmers or herdsmen nearby. During the construction and operation of this project, the related purchases and consumptions could promote local business and trade, thus increasing local farmer's income. To sum up, the stakeholders are very supportive of this project and looking forward to the operation of the Project as early as possible. And the project owner will strengthen the communication with the stakeholders, and confirm the measurements given in the EIA report will be implemented totally to solve the issues the local people concern mostly, including land occupation, grass and road destroy, noise of truck at night etc. at the construction period.
Outcome of FPIC	The project land is Gobi Desert area land, does not occupy the villagers' house land, permanent basic farmland, is not in the range of prohibited cultivation area, has obtained the approval from local Development and Reform Commission and Ecological Environment Bureau. Therefore, the project does not involve land encroachment, non-consensual resettlement of residents and forced relocation. Prior to the commencement of the project, adequate communication was conducted with the local peoples, including the key project schedule, Project details, environmental protection, carbon development, risks, benefits, etc. have been disclosed and fully communicated in advance. All relevant arrangements are made with the free, prior and informed consent of stakeholders. All stakeholders expressed full support for the project.

2.1.4 Grievance Redress Procedure

Grievances received	Resolution and outcome
In order to resolve complaints related to the project, PP has developed a complaint resolution process with stakeholders to ensure fair, transparent and timely processing. Here are the grievance resolution steps we have developed in partnership with our stakeholders: 1. Receiving Complaints: Any complaints related to the project will be received and recorded. The project owner has placed a comment book in the front office of the company and posted the contact person and contact information for stakeholders to submit complaints, either in writing, orally or through a designated contact person. 2. Hearing: Once a complaint is received, PP will schedule a hearing or meeting so that stakeholders can express their views and concerns. This will provide an open platform to ensure that all relevant information is fully considered. 3. Response: Following the hearing or meeting, PP will provide a written response confirming that they have understood and documented the stakeholder's complaint and explaining the actions they will take. This will ensure transparency and continuity of communication. 4. Resolution of Complaints: PP will use our best efforts to resolve complaints within a reasonable period of time. This may include adopting appropriate conflict resolution methods, such as mediation, negotiation or other appropriate solutions. They will work with stakeholders to ensure they are satisfied with the solution. These complaint resolution steps will ensure that we are able to address any project-related complaints in a timely and fair manner, while respecting the rights and concerns of the stakeholders. No complaints were received during the monitoring period	N/A

2.1.5 Public Comments

Summary of comments received	Actions taken
The Project has not received any complaints or comments during or outside the public comment period.	N-A

2.2 Risks to Stakeholders and the Environment

	Risk identified	Mitigation or preventative measure taken
Risks to stakeholder participation	No risk identified	The project is located in stated owned Gobi Desert area, is not in the farmland, forbidden zone, restricted zone. According to the approval from local Development and Reform Commission and Ecological Environment Bureau, the project conforms to the local environmental protection and economy development policy. Therefore, the project has no impact on land loss, yield loss, livelihoods of the local population and climate change.
Working conditions	No risk identified	The project has strictly implemented national and industry regulations and standards on labor safety and health, as well as Chinese labor law and local requirements, mitigation measures have been undertaken as per the approved EIA and carry out regular occupational health and safety testing every year to ensure the safety and healthy working environment.
Safety of women and girls	No risk identified	This program does not admit underage girls. In the design

		phase of the project, the safety of women was taken into account and corresponding preventive measures were taken. For example, establish safe sanitation facilities to ensure that women are not subjected to gender discrimination or gender-based violence in the management of their faces. During the implementation of the project, all personnel involved in the project are regularly trained in gender sensitivity, including awareness of gender discrimination and gender-based violence, and how to prevent and respond to these issues. The project has established effective monitoring and reporting mechanisms so that women can report any safety issues or acts of gender discrimination, ensuring that their voices are adequately addressed and protected.
Safety of minority and marginalized groups, including children	No risk identified	Project activities provided equal job opportunities, does not discriminate against marginalized groups, and provided some social support and assistance for local marginalized groups; The project does not recruit child workers. Therefore, the project does not pose a risk to marginalized groups, including children.
Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials)	The pollutants of dust, noise, solid waste and waste water during the construction, noise, solid waste and waste water during operation are identified.	Dust: Since the local residential area is at least 500m away from the wind farm site, the impact of construction dust to the local region is limited. Several measures was implemented to

		reduce the impact of dust on local residents and the construction staff, including watering and earthwork covering. Noise: Construction machines, transportation vehicles and construction work generated noise. However, the noise levels are within acceptable levels at the nearest habitation, which is 500m away from the project site. Furthermore, using machinery and equipment with low noise levels, and arranging the construction times during day time, reduces the impact to the environment significantly. The operating noise of these turbines ranges from 101 dB to 105 DB. With at least 500 meters far from the turbines, where residential areas are located, the noise has been greatly weakened to about 37 DB, dropping down below the national standard (No. GB 3096-93) of 45 DB in night and 55 DB in daytime. Solid waste: The solid wastes from the construction include waste soil and stone and construction wastes, as well as some waste from human life. All these wastes are collected and disposed properly to the landfill site of Changma County. Waste water: The waste water was be generated from construction work and the project office. The total volume is small and it was
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		treated and re-used as watering or sprinkler. Solid waste and waste water was be produced by operation staff during operation period. The emitted waste quantity is very small and does not cause any interference with the environment after proper treatment or integrated utilization.
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2.3 Respect for Human Rights and Equity

2.3.1 Labor and Work

Discrimination and sexual harassment	The project does not involve or engage in any form of discrimination based on gender, race, religion, sexual orientation or any other grounds. The program respects all rights granted to women by the Constitution of the People's Republic of China, the Labor Law of the People's Republic of China, and the Special Provisions on Labor Protection for Women Workers. There have been no complaints of sexual harassment since the project began. And the project has established a monitoring mechanism for complaints about sexual harassment to ensure that sexual harassment will not happen in the future.
Management experience	The PP's management team has the experience and expertise to effectively implement similar project activities. The team members have many years of working experience in the field of wind power plant with relevant skills and expertise in project planning, implementation and supervision to effectively manage and drive the implementation of the project. In addition, the PP have developed a recruitment strategy to fill gaps in skills and experience that may exist in the team. They will be looking for people with relevant experience and expertise to join the team to ensure that the project is supported and guided.
Gender equity in labor and work	The project has male and female employees of different genders, and there are female employees in management positions. There is no significant gender difference between female employees and

	male employees in terms of salary, promotion opportunities and welfare benefits, and employees of different genders have equal opportunities to obtain training and development resources. In regular employee satisfaction surveys, all employees feel that the project is treated equally in terms of gender and pay.
Human trafficking, forced labor, and child labor	The project adopts a compliant recruitment and employment policy to ensure that the recruitment and employment policies comply with relevant ILO standards and do not involve any form of human trafficking, forced Labour and child Labour. PP conducted comprehensive background checks and comply with local labor laws and regulations to ensure that employees are not exploited and abused. The project has put in place monitoring mechanisms to ensure that all employees and partners involved in the project are not involved in human trafficking, forced Labour and child Labour. PP conducts regular on-site inspections and audits to ensure that there are no violations of labor rights during the implementation of the project. The PPs work with partners who share the same commitment to labor rights to ensure that the entire supply chain is free from human trafficking, forced labor and child labor. The project provides training to employees and partners on human trafficking, forced Labour and child Labour to increase their awareness of these issues and how to avoid and report possible violations.

2.3.2 Human Rights

The project is geographically located in Gobi Desert areas, which is far from the local people live area, no IPs, LCs, or customary rights holders identified, The project provides training and employment opportunities for local people in the town nearby. In accordance with applicable laws such as International Human Rights Law, and relevant Chinese laws such as the Constitution of the People's Republic of China, the Labor Law of the People's Republic of China, the Law of the People's Republic of China on the Protection of Women's Rights and Interests, the Law of the People's Republic of China on the Protection of Minors etc., the right for the employee was fully considered.

2.3.3 Indigenous Peoples and Cultural Heritage

The project is geographically located in mountain areas, which is far from the local people live area. There is no cultural heritage to be protected in or around the project site .

2.3.4 Property Rights

Disputes over rights to territories and resources	The project got the approval from government about the land use, does not involve any possible conflicts of rights.
Respect for property rights	The project was designed, installed and performed by the project owner, does not involve any possible conflicts of the property rights of stakeholders,.

2.3.5 Benefit Sharing

The proposed project is a wind power project to generate electricity using wind power resources in the project region and to deliver to the Northwest China Power Grid (NWPGR). The project is located in the Gobi Desert region. Before the project construction, the project owner obtained the land use right, and the local Development and Reform Commission, Land and Resources Bureau, and Ecological Environment Bureau approved the land use and project construction on behalf of the local government. Moreover, the project was designed, installed and performed by the project owner, does not involve any possible conflicts of the property rights of stakeholders. Therefore, the project has no benefit sharing occurred during the whole crediting period.

Summary of the benefit sharing plan	N/A
Benefit sharing during the monitoring period	N/A

2.4 Ecosystem Health

	Risk identified	Mitigation or preventative measure taken during the monitoring period
Impacts on biodiversity and ecosystems	No risk identified	According to the EIA and it's approval there was not risk identified on biodiversity and ecosystems
Soil degradation and soil erosion	No risk identified	This project is a wind power project that occupies land during construction and has been

		approved. No land will be used during operation, there was not risk identified on Soil degradation and soil erosion
Water consumption and stress	No risk identified	This project is a wind power project and does not use water resources, there was not risk identified on Water consumption and stress
Usage of fertilizers	No risk identified	This project is a wind power project, do not use any fertilizers

2.4.1 Rare, Threatened, and Endangered species

The project is not located in or near the habitat of rare, threatened or endangered animals, according to the official websites of national and local environmental authorities and nature conservation agencies.

2.4.2 Introduction of species

N-A. This table is not required for projects with no planting or species introduction.

2.4.3 Ecosystem conversion

Not applicable. The project is not an ARR, ALM, WRC or ACoGS project.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The Project started construction on 10-November-2011. The Project started commissioning on 01-January-2013.

The electricity generated by the Project is delivered to NWPG. During this monitoring period, the Project is operated and implemented in accordance with the registered PD. The project runs smoothly during this monitoring period. No emergencies (including of overhaul times, downtimes of equipment, exchange of equipment, etc.) happened to the monitoring system in this monitoring period, which may impact the applicability of the methodology.

The technologies employed by the project are owned domestically, thus no technology transfer is involved. Major technical parameters of the key equipment employed by the project are illustrated in Table

Key Parameter	Type: SL3000-113
Rated power (kW)	3000

Rotor diameter (m)	113.3
Cut in wind speed (m-s)	3
Rated wind speed (m-s)	11
Cut out wind speed (m-s) (average in 10mins.)	25
Extreme(survival) wind speed (maximum in 3 seconds) (m-s)	52.5
Rated life time (year)	20
Number of blades	3
Swept area(m2)	10039.7
Length of the blade (m)	55
Generator capacity (kW)	3100
Rated generator voltage (V)	690

The electricity generated by the Project was exported to the local Yumen town grid via a newly built 35kV-110kV transformer station located within the Project site, which was then exported to the NWPG via local Yumen town grid. There is electric meter (accuracy level: no less than 0.5S) in the onsite substation to measure the electricity import-export. The technical process in the Project can be shown as following diagram:

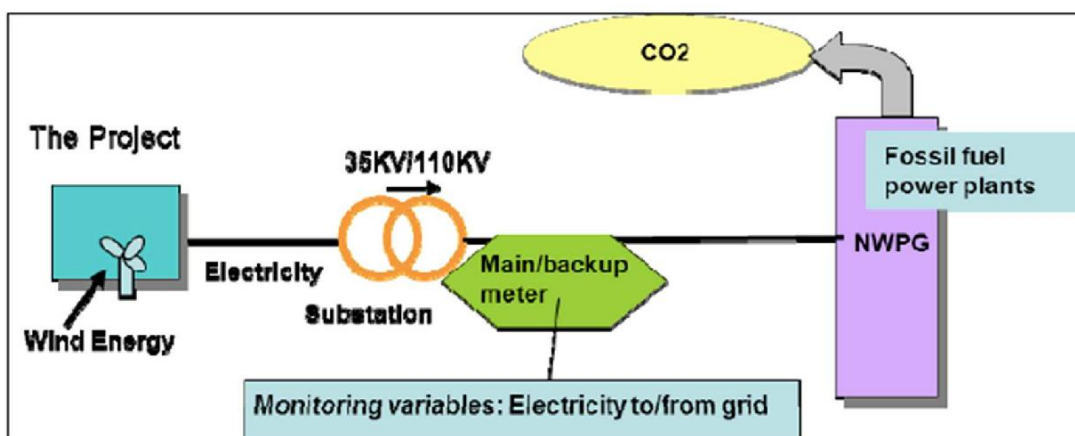


Figure 2. The technology flow diagram of the Project

3.2 Deviations

3.2.1 Methodology Deviations

There is no methodology deviation in this monitoring period.

3.2.2 Project Description Deviations

There are no project description deviations in this monitoring period.

3.3 Grouped Projects

ot applicable as this is not a grouped project.

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

The parameters (internal power consumption of power plants, $FC_{i,y}$, Efficiency of the advanced thermal power plant additions, capacity by power generation source, oxidation factor, $NCV_{i,y}$, $EF_{CO2,i,y}$, $EG_{m,y}$, Efficiency of the advanced thermal power plant additions) used for calculation of the baseline grid emission factor ($EF_{grid,CM,y}$) available at validation in the registered PD are replaced by the parameter of $EF_{grid,CM,y}$ directly here.

Data - Parameter	$EF_{grid,CM,y}$
Data unit	tCO ₂ e-MWh
Description	Baseline emission factor: the combined emission factor of the project grid system.
Source of data	registered PD
Value applied	0.8960
Justification of choice of data or description of measurement methods and procedures applied	Fixed before registration
Purpose of Data	Calculation of baseline emissions
Comments	The emission factor of the project was ex-ante determined and is fixed during the first crediting period. All data and parameters had been determined at registration.

4.2 Data and Parameters Monitored

Data - Parameter	$EG_{tograd,y}$
Data unit	MWh

Description	Quantity of annual electricity exported to the grid by the project															
Source of data	Electricity meters															
Description of measurement methods and procedures to be applied	The electricity exported is monitored by the electricity meter and recorded by working staff. Both the main meters and backup meters have been installed at high voltage side of 35kV/110kV substation, located within the site, the accuracy of the meters is 0.2s. The main meter was used to monitor electricity exchanged between the Project and the grid continuously and reported monthly. The cut-off time is 24:00 of last day of each month. The data from the electricity meters can be cross-checked with the sales receipts for the electricity, the Electricity Transaction Notes (ETNs) are issued by the grid company. The ETNs are serving as the sales receipts.															
Frequency of monitoring-recording	Monitoring continuously and recorded monthly															
Value monitored	99,375.979 (total electricity exported to the grid in this monitoring period)															
Monitoring equipment	There are two electricity meters. One is main meter and the other one is backup meter. The serial number and calibration information is in following table. <table><tr><th>Serial No.</th><th>Calibration date</th><th>valid</th><th>Accuracy</th></tr><tr><td>211650972 Main meter</td><td>27-Nov-2021 18-Sept-2022 26-Dec-2022</td><td>26-Nov-2022 18-Sept-2023 26-Dec-2023</td><td>0.2s</td></tr><tr><td>211650857 Backup meter</td><td>27-Nov-2021 18-Sept-2022 26-Dec-2022</td><td>26-Nov-2022 18-Sept-2023 26-Dec-2023</td><td>0.2s</td></tr></table>				Serial No.	Calibration date	valid	Accuracy	211650972 Main meter	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s	211650857 Backup meter	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s
Serial No.	Calibration date	valid	Accuracy													
211650972 Main meter	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s													
211650857 Backup meter	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s													
QA-QC procedures to be applied	The metering equipment are calibrated and checked for accuracy periodically (once a year) according to the industry standards so that the metering equipment shall have sufficient accuracy. The data from the electricity meters can be cross-checked with the sales receipts for the electricity.															
Purpose of the data	Calculation of baseline emissions															
Calculation method	-															
Comments	-															

Data - Parameter	EG _{fromgrid,y}
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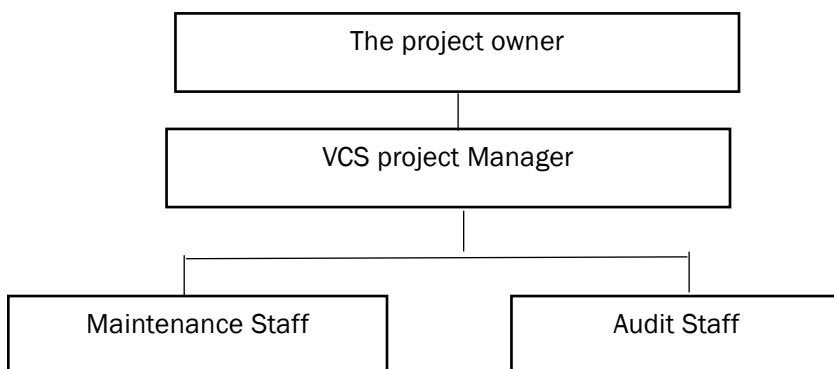
Data unit	MWh												
Description	Quantity of annual electricity imported from the grid by the project												
Source of data	Electricity meters												
Description of measurement methods and procedures to be applied	The electricity exported is monitored by the electricity meter and recorded by working staff. Both the main meters and backup meters have been installed at high voltage side of 35kV/110kV substation, located within the site, the accuracy of the meters is 0.2s. The main meter were used to monitor electricity exchanged between the Project and the grid continuously and reported monthly. The cut-off time is 24:00 of last day of each month. The data from the electricity meters can be cross-checked with the sales receipts for the electricity, the Electricity Transaction Notes (ETNs) are issued by the grid company. The ETNs are serving as the sales receipts.												
Frequency of monitoring-recording	Monitoring continuously and recorded monthly												
Value monitored	379.324 (total electricity imported from the grid in this monitoring period)												
Monitoring equipment	There are two electricity meters. One is main meter and the other one is backup meter. The serial number and calibration information is in following table. <table><tr><th>Serial No.</th><th>Calibration date</th><th>valid</th><th>Accuracy</th></tr><tr><td>211650972 Main meter M1</td><td>27-Nov-2021 18-Sept-2022 26-Dec-2022</td><td>26-Nov-2022 18-Sept-2023 26-Dec-2023</td><td>0.2s</td></tr><tr><td>211650857 Backup meter M2</td><td>27-Nov-2021 18-Sept-2022 26-Dec-2022</td><td>26-Nov-2022 18-Sept-2023 26-Dec-2023</td><td>0.2s</td></tr></table>	Serial No.	Calibration date	valid	Accuracy	211650972 Main meter M1	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s	211650857 Backup meter M2	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s
Serial No.	Calibration date	valid	Accuracy										
211650972 Main meter M1	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s										
211650857 Backup meter M2	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s										
QA-QC procedures to be applied	The metering equipment are calibrated and checked for accuracy periodically (once a year) according to the industry standards so that the metering equipment shall have sufficient accuracy. The data from the electricity meters can be cross-checked with the sales receipts for the electricity.												
Purpose of the data	Calculation of baseline emissions												
Calculation method	-												
Comments	-												

Data - Parameter	EG _{facility,y}															
Data unit	MWh															
Description	Net electricity supplied to the grid by the Project															
Source of data	Electricity meter															
Description of measurement methods and procedures to be applied	It is calculated with EG _{togrid,y} -EG _{fromgrid,y}															
Frequency of monitoring-recording	Monitoring continuously and recorded monthly															
Value monitored	98,996.655 (total electricity exported to the grid in this monitoring period)															
Monitoring equipment	There are two electricity meters. One is main meter and the other one is backup meter. The serial number and calibration information is in following table. <table><tr><th>Serial No.</th><th>Calibration date</th><th>valid</th><th>Accuracy</th></tr><tr><td>211650972 Main meter M1</td><td>27-Nov-2021 18-Sept-2022 26-Dec-2022</td><td>26-Nov-2022 18-Sept-2023 26-Dec-2023</td><td>0.2s</td></tr><tr><td>211650857 Backup meter M2</td><td>27-Nov-2021 18-Sept-2022 26-Dec-2022</td><td>26-Nov-2022 18-Sept-2023 26-Dec-2023</td><td>0.2s</td></tr></table>				Serial No.	Calibration date	valid	Accuracy	211650972 Main meter M1	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s	211650857 Backup meter M2	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s
Serial No.	Calibration date	valid	Accuracy													
211650972 Main meter M1	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s													
211650857 Backup meter M2	27-Nov-2021 18-Sept-2022 26-Dec-2022	26-Nov-2022 18-Sept-2023 26-Dec-2023	0.2s													
QA-QC procedures to be applied	The metering equipment are calibrated and checked for accuracy periodically (once a year) according to the industry standards so that the metering equipment shall have sufficient accuracy. The data from the electricity meters can be cross-checked with the sales receipts for the electricity.															
Purpose of the data	Calculation of baseline emissions															
Calculation method	EG_{facility,y}=EG_{togrid,y} -EG_{fromgrid,y} EG_{togrid,y}: Quantity of annual electricity exported to the grid by the Project. EG_{fromgrid,y}: Quantity of annual electricity imported from the grid by the Project.															
Comments	-															

4.3 Monitoring Plan

Monitoring system organization

Overall responsibility for monitoring and carrying out the monitoring following this monitoring plan lies with CECEP Wind Power (GANSU) CO., LTD. The company will assign dedicated people responsible for the monitoring and reporting of the generation and emission reductions of the project activity. The operating and management structure is illustrated as followed:



Data collection and management

As described in the monitoring plan in the registered PD, the monitoring data are read from the electricity meter within the project site and recorded monthly.

The net electricity supplied to the grid by the project ($EG_{facility,y}$) has been continuously monitored through the two sets of bi-directional meters (one main meter M1 and one backup meter M2) installed at the high voltage side of 35kV-110kV Substation, located within the project site. Both of the meters can record the electricity exported to the grid by the Project and the electricity imported from the grid by the Project.

The cut off time is 24:00 of the last day of each month. Designated personnel of the wind farm read and record the readings monthly, then report the readings to the grid company. After confirmed by the grid company, the Electricity Transaction Notes (ETNs) are issued by the grid company. The ETNs are serving as the sales receipts. The meters were calibrated according to national regulations.

All data collected as part of monitoring is archived electronically and is kept until 2 years after the end of the total crediting period of the Project.

Calibration of meters

The metering equipment will be calibrated and checked by qualified third party for according to national standards so that the metering equipment shall have sufficient accuracy of no less than 0.5S. Both meters shall be jointly inspected and sealed on behalf of the parties concerned and shall not be interfered with by either party except in the presence of the other party or its accredited representatives.

All the meters installed shall be tested by the NWPG within 10 days after: the detection of a difference larger than the allowable error in the readings of both meters; the repair of all or part of meter caused by the failure of one or more parts to operate in accordance with the specifications. If any errors are detected, the party owning the meter shall repair, re-calibrate or

replace the meter giving the other party sufficient notice to allow a representative to attend during any corrective activity. Should any previous month's reading of the main meter be inaccurate by more than the allowable error, or otherwise functioned improperly, the net generation output shall be determined by:

- (a) First, by reading backup meter, unless a test by either party reveals it is inaccurate;
- (b) If the backup system is not with acceptable limits of accuracy or operation is performed improperly, the project owner and the grid company shall jointly prepare a reasonable and conservative estimate of the correct reading and provide sufficient evidence that this estimation is reasonable and conservative when VVB undertakes verification;
- (c) If the two parties fail to agree then the matter will be referred for arbitration according to agreed procedures.

Quality control

Monthly net generation data will be approved by monitoring and auditing staff before it is accepted and stored.

This audit will check compliance with operational procedures in this monitoring plan.

This internal audit will also identify potential improvements to procedures to improve monitoring and reporting in future years. If such improvements are proposed these will be reported to the VVB and only operated after approval from the VVB

During this monitoring period, there was no improvement identified, the generation data was monitored and reported correctly

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

According to ACM0002 (Version 12.2.0), the baseline emissions calculated as follows:

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

Where:

BE_y	Baseline emissions in year y (tCO ₂ -yr)
$EG_{PJ,y}$	Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh-yr)

$EF_{grid,CM,y}$	Combined margin CO ₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system” (tCO ₂ -MWh)
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The Project is the installation of a new grid-connected renewable power plant-unit at a site where no renewable power plant was operated prior to the implementation of the Project. So:

$$EG_{PJ,y} = EG_{facility,y}$$

Where:

$EG_{facility,y}$ Quantity of net electricity generation supplied by the project plant-unit to the grid in year y (MWh-yr)

$$EG_{facility,y} = EG_{togrid,y} - EG_{fromgrid,y}$$

So,

$$BE_y = (EG_{togrid,y} - EG_{fromgrid,y}) * EF_{grid,CM,y}$$

Where:

BE_y =Baseline emissions in year y (tCO₂-yr)

$EG_{togrid,y}$ =The electricity delivered to the grid by the proposed project activity in y year

$EG_{fromgrid,y}$ =The electricity purchased by the proposed project activity from the grid in y year, when wind resources not sufficient or wind turbine might shut down for regular maintenance.

$EG_{facility,y}$ =Quantity of net electricity generation supplied by the project plant to the grid in year y (MWh-yr)

$EF_{grid,CM,y}$ =Combined margin CO₂ emissions factor in year y (tCO₂-MWh)

Monitoring period	$EG_{facility,y}$ (MWh)	$EF_{grid,CM,y}$ (tCO ₂ -MWh)	BE_y (tCO ₂)
30-December-2021 to 31-December-2021	961.840	0.8960	861
01-January-2022 to 31-December-2022	98,034.815	0.8960	87,831
Total	98,996.655		88,692

The monthly data and ER breakdown are shown in appendix 2

5.2 Project Emissions

According to the registered VCS PD and ACM0002, v12.2.0, the emission of wind power project activity is zero, i.e., $PE_y=0$.

5.3 Leakage Emissions

According to registered VCS PD and ACM0002, v12.2.0, the leakage of wind power project is not needed to be considered.

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 VCU (tCO ₂ e)	Removal VCU (tCO ₂ e)	Total VCU (tCO ₂ e)
30-Dec-2021-31-Dec-2021	861	0	0	861	861	861
01-Jan-2022 – 31-Dec-2022	87,831	0	0	87,831	87,831	87,831
Total	88,692	0	0	88,692	88,692	88,692

Vintage period	Ex-ante estimated reductions-removals	Achieved reductions-removals	Percent difference	Explanation for the difference
30-Dec-2021 to 31-Dec-2021	496	861	73.57%	The actual achieved emission reductions during this monitoring period are 2.57% less than estimated values mainly due to that the fluctuation of the wind resource.
01-Jan-2022 to 31-Dec-2022	90,531 ³	87,831	-2.98%	
Total	91,027	88,692	-2.57%	

³ The estimated annual emission reductions in the VCS PD are 90,531 tCO₂e, the period 30-Dec-2021- 31-Dec-2021 covers 2 days, the corresponding estimated emission reductions are calculated as $90,531/365 \times 2 = 496$ tCO₂e.

APPENDIX 1: COMMERCIALY SENSITIVE INFORMATION

No commercially sensitive information has been excluded from the public version of the monitoring report.

APPENDIX 2: < MONTHLY AND YEARLY ELECTRICITY>

Period	EG _{togrid,y} (MWh)			EG _{fromgrid,y} (MWh)			EG _{facility,y}	EF _{grid,CM,y}	BE _y
	Data from meter readings (MWh)	Data on sale receipts (MWh)	Data for ER calculation (MWh)	Data from meter readings (MWh)	Data on sale receipts (MWh)	Data for ER calculation (MWh)	(MWh)	(tCO ₂ e-MWh)	(tCO ₂ e)
	A	B	C=Min(A,B)	D	E	F=Max(D,E)	G=C-F	H	I=GxH
30-December-2021-31-December-2021	961.840	961.840	961.840	0.000	0.000	0.000	961.840	0.896	861
2021 subtotal			961.840			0.000	961.840		861
01-January-2022-31-January-2022	5,106.200	4,545.601	4,545.601	62.480	62.040	62.480	4,483.121	0.896	4,016
01-February-2022-28-February-2022	7,784.480	7,721.386	7,721.386	27.720	27.720	27.720	7,693.666	0.896	6,893
01 Match 2022-31 Match 2022	9,928.160	9,838.221	9,838.221	33.000	33.264	33.264	9,804.957	0.896	8,785
01-April-2022-30-April-2022	9,407.640	9,325.063	9,325.063	23.760	23.540	23.760	9,301.303	0.896	8,333
01 May 2022-31 May 2022	11,613.800	11,527.153	11,527.153	14.960	14.916	14.960	11,512.193	0.896	10,314
01-June-2022-30-June-2022	8,869.960	8,804.201	8,804.201	18.920	18.920	18.920	8,785.281	0.896	7,871

01-July-2022-31-July-2022	8,176.080	8,115.329	8,115.329	25.080	25.036	25.080	8,090.249	0.896	7,248
01-August-2022-31-August-2022	10,167.960	10,074.111	10,074.111	23.320	23.364	23.364	10,050.747	0.896	9,005
01-September-2022-30-September-2022	5,309.172	5,270.774	5,270.774	24.552	24.332	24.552	5,246.222	0.896	4,700
01-October-2022-31-October-2022	7,161.484	7,097.518	7,097.518	38.368	38.324	38.368	7,059.150	0.896	6,324
01-November-2022-30-November-2022	8,985.592	7,846.674	7,846.674	29.524	29.568	29.568	7,817.106	0.896	7,004
01-December-2022-31-December-2022	8,248.108	9,517.848	8,248.108	57.288	57.112	57.288	8,190.820	0.896	7,338
2022 Subtotal			98,414.139			379.324	98,034.815		87,831
Total			99,375.979			379.324	98,996.655		88,692

APPENDIX 3: < SDG EVIDENCE >

Evidence for SDG 7 and SDG 13: From project operation date onwards, the net electricity supplied to the SCPG and corresponding emission reduction in every monitoring period have been listed in below table. Please refer to following links for details.

Period	EGfacility,y MWh	ER CO ₂ e
01-January-2013-31-December-2015	185,233.587	165,969
01-January-2016 to 30-June-2019	383,274.144	343,390
01-July-2019 to 29-December-2021	270,773.398	242,595
30-December-2021 to 31-December-2022	98,996.655	88,692
Total	938,277.78	840,646

<https://cdm.unfccc.int/Projects/DB/TUEV-RHEIN1341395564.24/view>

<https://registry.terra.org/app/projectDetail/VCS/1940>

Evidence for SDG 8

中节能(甘肃)风力发电有限公司

序号	单位	姓名	岗位	性别	备注
1	中节能(甘肃)风力发电有限公司	王明扬	厂长	男	
2	中节能(甘肃)风力发电有限公司	陈果	副厂长	男	
3	中节能(甘肃)风力发电有限公司	李茜	副厂长	女	
4	中节能(甘肃)风力发电有限公司	曹欢	党建、档案	女	
5	中节能(甘肃)风力发电有限公司	曹雪清	安全员	男	
6	中节能(甘肃)风力发电有限公司	陈程	行政	女	
7	中节能(甘肃)风力发电有限公司	陈伟林	组长	男	
8	中节能(甘肃)风力发电有限公司	马静	组员	女	
9	中节能(甘肃)风力发电有限公司	王帆	组员	女	
10	中节能(甘肃)风力发电有限公司	汪浩	组员	男	
11	中节能(甘肃)风力发电有限公司	李国栋	组员	男	
12	中节能(甘肃)风力发电有限公司	汪海洋	组员	男	
13	中节能(甘肃)风力发电有限公司	王敬	组员	女	
14	中节能(甘肃)风力发电有限公司	王小军	检修员	男	
15	中节能(甘肃)风力发电有限公司	张琳	检修员	女	

