



GUYUAN WUHUAPING 49.5 MW WIND POWER PROJECT

Document Prepared by Demeter Venture Uk Limited

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1 PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

Guyuan Wuhuaping 49.5 MW Wind Power Project (hereinafter referred to as the Project) is located within Pingdingbu Town, Guyuan County, Zhangjiakou City, Hebei Province, P.R. China. It is invested, constructed and operated by Construction Investment Yanshan (Guyuan) Wind Energy Co., Ltd.

The total installed capacity of the Project is 49.5 MW equipped with 33 sets of wind turbines with a unit installed capacity of 1,500 kW. Electricity generated by the Project is delivered to North China Power Grid. The Project as a renewable energy source generates emission reductions by avoiding CO₂ emissions from the same amount of electricity generation from NCPG, which is mainly composed of traditional fossil fuel power plants.

The estimated electricity delivered to North China Power Grid by the Project is 117,322.7152MWh per year. The estimated annual GHG emission reductions in the first crediting period are 123,757 tCO₂e/yr, and are 98,603 tCO₂e/yr during the second crediting period.

The project started commissioning on 30/10/2009 and had a full operation on 10/12/2009.

The second crediting period is from 30/10/2019 to 29/10/2029. This monitoring period is from 01/12/2021 to 31/05/2023 (547 days), belongs to the second crediting period.

During the monitoring period from 01/12/2021 to 31/05/2023 (547 days), the project has supplied electricity of 183,664.052 MWh and achieved 154,359 tCO₂e emission reductions by replacing electricity generated by fossil fuel fired power plants connected to NCPG.

Audit Type	Period	Program	VVB Name	Number of years
Validation	03/07/2010	CDM	BUREAU VERITAS CERTIFICATION	-
Validation (Crediting Period Renewal)	30/10/2019-29/10/2029	VCS	LGAI Technological Center, S.A. (Applus+ Certification)	7.00
1 st Verification	01/12/2009-30/06/2010	VCS	SGS UNITED KINGDOM LTD	0.58 (i.e. 212 days)
1 st Verification	03/07/2010-30/07/2011	CDM	SGS UNITED KINGDOM LTD	1.08 (i.e. 393 days)
2 nd Verification	31/07/2011-29/06/2012	CDM	SGS UNITED KINGDOM LTD	0.92 (i.e. 335 days)
3 rd Verification	30/06/2012-31/12/2012	CDM	/	0.51 (i.e. 185 days)

4 th Verification	01/01/2013-30/09/2015	CDM	China Classification Society Certification Company (CCSC)	2.75 (i.e. 1,003 days)
5 th Verification	01/10/2015 - 29/09/2019	VCS	LGAI Technological Center, S.A. (Applus+ Certification)	4.00 (i.e. 1,460 days)
6 th Verification	30/09/2019 - 30/11/2021	VCS	CTI Certification Co., Ltd	2.17 (i.e. 793 days)
Total	01/12/2009 to 31/05/2023	CDM VCS	-	13.50 (i.e. 4,928 days)

1.2 Sectoral Scope and Project Type

This category would fall within sectoral scope 1: energy industries (Renewable sources).

Project type: wind power project.

This project is not grouped project.

1.3 Project Proponent

Organization name	Construction Investment Yanshan (Guyuan) Wind Energy Co., Ltd.
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Title	Manager
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1.4 Other Entities Involved in the Project

Organization name	Demeter Venture Uk Limited
Role in the Project	Project participant
Contact person	Teng Haipeng
Title	Manager
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Telephone	+86 13501283595
Email	teng_hp@demeterventureuk.com

Organization name	Beijing Cronus Technology Counsultancy Centre
Role in the Project	Project participant
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Organization name	Beijing Ruifang Information Technology Co., Ltd.
Role in the Project	Project participant
Contact person	Teng Haipeng
Title	Manager
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For this project, Demeter Venture Uk Limited is the buyer of VCU; Beijing Cronus Technology Consultancy Centre is the project account holder; Beijing Ruifang Information Technology Co., Ltd. Is the project consultant, provide consulting services during issuance process.

1.5 Project Start Date

30/10/2009 (operation date, which means the date that started to generate GHG emission reductions).

1.6 Project Crediting Period

According to renewed VCS PD, as this project started commission on 30/10/2009 (which means the date started to generate GHG emission reductions), as per the VCS rules, the first crediting period under VCS is from 30/10/2009 to 29/10/2019 (10 years, renewable). Therefore, the total crediting period under VCS would have been from 30/10/2009 to 29/10/2039 (30 years). However, the project was registered under CDM on 03/07/2010. And the total crediting period under CDM is from 03/07/2010 to 02/07/2031 (21years).

As per VCS scheme under which the project was registered, the project crediting period is allowable for 10 years and could be renewed twice. Considering 3*7 years CDM crediting period, it is reasonable that the total VCS crediting period was determined from 30/10/2009 to 02/07/2031.

Furthermore, given that the lifetime of the project is about 20 years, thus, the VCS crediting period will end on 30/10/2029.

This monitoring period is from 01/12/2021 to 31/05/2023 (547 days), belongs to the second crediting period (from 30/10/2019 to 29/10/2029).

1.7 Project Location

The Project is located within Pingdingbu Town, Guyuan County, Zhangjiakou City, Hebei Province, P.R.China. The center of the Project has geographical coordinates with east longitude of 115°45′ 08″ and north latitude of 41°36′ 36″ . The area of the wind farm is about 55 km².

Figure 1 shows the location of Hebei Province. Figure 2 shows the location of Zhangjiakou City. Figure 3 shows the location of the Project.

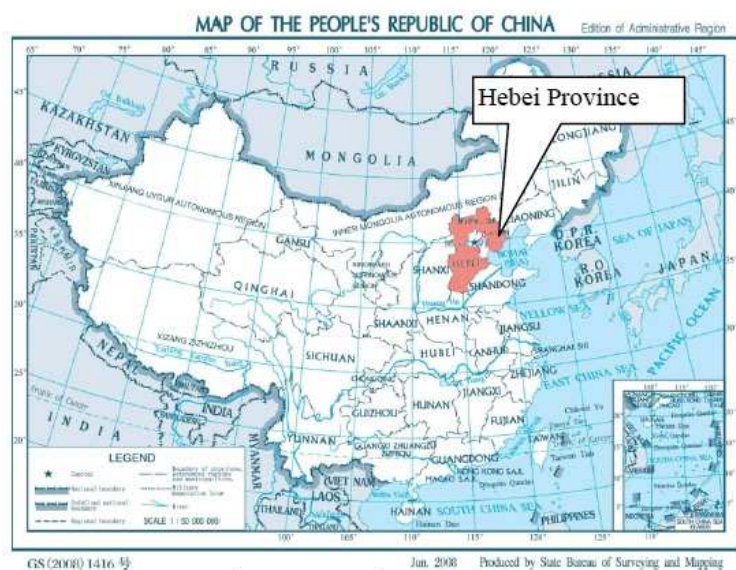


Figure 1. Location of Hebei Province

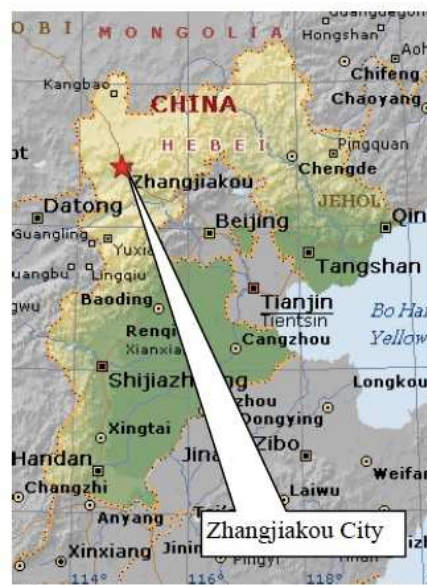


Figure 2. Location of Zhangjiakou City



Figure 3. Location of the Project

1.8 Title and Reference of Methodology

The approved methodology applied in the project activity is ACM0002 – Consolidated methodology for grid-connected electricity generation from renewable sources” (version 20.0)¹.

¹ <https://cdm.unfccc.int/methodologies/DB/XP2LKUSA61DKUQCOPWPGWDN8ED5PG>

Related tools are:

- Tool to calculate the emission factor for an electricity system (version 07.0)
- Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period (version 03.0.1).

1.9 Participation under other GHG Programs

The Project has been registered as a CDM project on 03/07/2010 with registration number of 3356. It has been issued three times under CDM mechanism, covering monitoring period from 03/07/2010 to 30/07/2011, 31/07/2011 to 29/06/2012, and 01/01/2013 to 30/09/2015. GHG emission reductions from 30/06/2012 - 31/12/2012 were awaiting issuance request under CDM scheme².

The credits in this monitoring period (01/12/2021- 31/05/2023) has not been counted and will not be counted under other kind of GHG programs.

Please refer to the following link for details:

<https://cdm.unfccc.int/Projects/DB/BVQI1265358035.51/view>

Except for CDM, the project did not register under any other GHG program.

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

Emission Trading Programs and Other Binding Limits:

China has a national Emission Trading Scheme (ETS) 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 project³. The project proponent Construction Investment Yanshan (Guyuan) Wind Energy Co., Ltd., as an enterprise for renewable energy investment, thus, the project activity is not included the mandatory emission control scheme and there is no emission cap enforced for the project owner according to the enforced company list⁴ in public information. Hence, it is confirmed that the emission reductions will not be double counted.

The Project has been registered as a CDM project on 03/07/2010 with registration number of 3356. It has been issued three times under CDM mechanism, covering monitoring period from

² GHG emission reductions from 30/06/2012 - 31/12/2012 has been issued under VCS scheme, and this part will not be counted under other kind of GHG programs.

https://cdm.unfccc.int/Projects/DB/BVQI1265358035.51/iProcess/CCSC_DOE1458545557.96/view

³ http://www.mee.gov.cn/xgk2018/xgk/xgk05/202103/t20210330_826728.html

⁴ <http://mee.gov.cn/xgk2018/xgk/xgk03/202012/W020201230736907682380.pdf>

03/07/2010 to 30/07/2011, 31/07/2011 to 29/06/2012, and 01/01/2013 to 30/09/2015. GHG emission reductions from 30/06/2012 - 31/12/2012 were awaiting issuance request under CDM scheme⁵.

The credits in this monitoring period (01/12/2021- 31/05/2023) has not been counted and will not be counted under other kind of GHG programs.

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 other than the CDM mechanism.

Other Forms of Environmental Credit:

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

Supply Chain (Scope 3) Emissions:

The Project generated electricity by utilization of renewable wind sources, replacing the electricity generated by fossil fuel fired power plants of the power grid. For wind power projects, the GHG emission reductions come from avoiding CO₂ emissions from those fossil fuel-based power plants connected to the grid, which does not happen in a supply chain. Therefore, it is confirmed that the Supply Chain (Scope 3) Emissions are not applicable for the project activity.

1.11 Sustainable Development Contributions

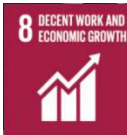
The project located in Guyuan County, Zhangjiakou City, Hebei Province, P.R. China, which generated electricity from clean renewable wind sources and feeds it into NCPG, replacing energy that would otherwise be generated by fossil fuels. As per the renewal PD, the project will not only supply renewable electricity to the grid, but also contribute to sustainable development of the local community, the host country and the world by means of:

- reducing greenhouse gas emissions compared to a business-as-usual scenario;
- diversifying power sources and mitigating the demand and supply contradiction;
- helping to stimulate the growth of the wind power industry and encourage and promote the technology progress and commercial popularization of grid-connected renewable power generation projects in China;
- reducing the emission of other pollutants resulting from the power generation industry in China, compared to a business-as-usual scenario;

⁵ GHG emission reductions from 30/06/2012 - 31/12/2012 has been issued under VCS scheme, and this part will not be counted under other kind of GHG programs.
https://cdm.unfccc.int/Projects/DB/BV011265358035.51/iProcess/CCSC_DOE1458545557.96/view

- creating 10 employment opportunities for local community during the operation period of the project and creating several employment opportunities for local community during the construction period of the project.

In this monitoring period the project contributes to the following SDGs:

SDG	SDG indicators	Chinese Sustainable Development Progress	Project activity contribution
	SDG 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix	By the end of 2015, China had fully solved the problem of providing electricity to all people without electricity and reached the goal of the Sustainable Development Agenda 15 years ahead of schedule. From 2015 to 2020, the share of non-fossil energy increased from 14.5% to 19.6%, while the share of raw coal decreased from 72.2% to 67.6%.	From the operation start date of the project to 31/05/2023, the project supplied 1,646,207.403 MWh renewable clean energy to NCPG, which contributes to achieve China's stated sustainable development priorities "By 2030, the proportion of non-fossil energy consumption will reach about 25%".
	SDG 8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value	China has deeply implemented the innovation-driven development strategy. Small, medium and micro enterprises have developed rapidly. Adhering to the policy of giving priority to employment, the unemployment rate has remained at a low level. By coordinating epidemic prevention and control with economic and social development, China has become the only major economy to achieve positive growth in 2020 and has made positive contributions to global economic recovery.	The project provides 42 long-term job opportunities for local people, which has a positive effect on the local economy and contributes to SDG 8. This contributes to one of China's actions for promoting sustainable developing: "by 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value".

	SDG 13 Take urgent action to combat climate change and its impacts	In 2020, China's energy consumption per unit of GDP was reduced by 24.4% compared with 2012; carbon dioxide emissions per unit of GDP was reduced by 18.8% compared with 2015 and 48.4% compared with 2005, all of which have already fulfilled China's commitment to the international community in 2020 ahead of schedule.	From the operation start date of the project to 31/05/2023, the project achieved 1,640,801tCO₂e emission reductions which contributes to SDG 13. This contributes to achieve China's stated sustainable development priorities "China's carbon dioxide emissions would strive to peak by 2030 and strive to achieve carbon neutrality by 2060 ".
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These contribute to achieve China's stated sustainable development priorities, included strengthening resistance capacity to climate risks, increasing labour force participation rate, increasing the share of clean energy consumption.

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	Implemented activities to increase	The project utilizes wind energy for electricity generation, which could increase the ratio of renewable energy in total energy consumption of China. From 01/12/2021 to 31/05/2023 the electricity supplied from the project is 183,664.052 MWh.	From the operation start date of the project to 31/05/2023, the verified electricity generated by this project is 1,646,207.403 MWh.
2)	8.5	Total number of job opportunities	Implemented activities to decrease	During the current monitoring period, the total number of employees is 42(including 20 females, 10 of whom are residents of the villages surrounding the project. And local employees account for about 23.81% of the total staff. The number of employees has not increased affected by the COVID-19 pandemic during this monitoring period. The project will expand the number of employees in the next year.	During the operation time, the project provides about 42 stable work opportunities to local people, including 20 females, 10 of whom are residents of the villages surrounding the project. And local employees account for about 23.81% of the total staff. The project will provide more employment opportunities for surrounding residents in the future.
3)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	By utilizing wind for power generation and replaced it from thermal power generation projects from 01/12/2021 to 31/05/2023 the emission reduction from the project is around 154,359 tCO ₂ e	The credits from the operation start date of the project to 31/05/2023, the verified emission reduction generated by this project is 1,640,801 tCO ₂ e (refer to table below for further details).

The electricity and emission reduction that has been verified during the previous monitoring period are as follows:

Monitoring period	EG _y (MWh)	Emission Reductions (tCO ₂ e)	Status
01/12/2009-30/06/2010	82,428.486	86,949	Issued
03/07/2010-30/07/2011	126,402.693	133,335	Issued
31/07/2011-29/06/2012	105,758.011	111,558	Issued
30/06/2012-31/12/2012	54,015.000	56,977	Awaiting issuance under CDM
01/01/2013-30/09/2015	317,913.000	335,350	Issued
01/10/2015 - 29/09/2019	502,936.760	530,521	Issued
30/09/2019 -30/11/2021	273,089.401	231,752	Awaiting issuance under VCS
01/12/2021 -31/05/2023	183,664.052	154,359	In requesting for VCUs
Total	1,646,207.403	1,640,801	

2 SAFEGUARDS

2.1 No Net Harm

The Environmental Impact Statement Form was completed by Hebei Provincial Institute of Geographic Sciences and approved by Environmental Protection Bureau of Hebei Province on 15/05/2008. According to the Environmental Impact Statement Form, environmental impacts possibly caused by the Project and treatment measures adopted by the Project Owner are analyzed as follows:

Waste water

Waste water produced during construction period and operation period of the Project is mainly domestic waste water of workers. A little of the waste water produced during the construction period will be absorbed by the earth or evaporated, without contaminating the surface ground. The domestic waste water produced during operation period will be treated in waste water treatment facilities. Then, the overflow water in the upper layer of the facilities will be introduced into reservoir for the greening of the wind farm area, without being discharged outside. Thus, the domestic waste water has little impact on the surroundings.

Dust and exhaust gas

There is no discharge of exhaust gas during the operation period of the Project. During the construction period of the Project, the generation of dust is mainly due to excavation, piling, backfilling and transportation of earth, land flatting, road expansion and transportation, loading

and unloading and piling of construction materials. Exhaust gas could also be generated from the operation of oil fueled machines and vehicle running. However, by means of watering and covering the material piling areas and limiting the speed of vehicles, the air pollutant emission of the Project will meet the requirement of Integrated Emission Standard of Air Pollutants (GB16297-1996), so the Project will not have any impact on the surroundings.

Noise

Noises generated during the construction period of the Project stem from activities such as excavation and backfilling of earth for the foundation of wind turbines, piling, casting of the foundation platform, installation of the power generation equipments and construction of the multipurpose building and the substation. After attenuation, the noises meet the requirement of Noise Limits for Construction Site (GB12523-90). The noises under abnormal working conditions during the operation period will be reduced through regular maintenance and timely conservation on equipments such as turbines and transformers. As a result, the noises in the plant area and the noises at sensitive sites meet the requirement of Category I of Standard of Noise at Boundary of Industrial Enterprises (GB12348-90) and Category I of Standard of Environmental Noise of Urban Area (GB3096-93).

Solid waste

The solid waste produced during the construction period is mainly the discarded earth, the construction waste, the domestic waste and etc. The discarded earth will be immediately transported to dump sites. The construction waste and the domestic waste will be transported to the waste disposal site of Guyuan County by the environmental sanitation administrative department for sanitary landfill. During the operation period of the Project, domestic waste (about 3.65 t/a) will be collected and periodically transported to the waste disposal site of Guyuan County by the environmental sanitation administrative department for sanitary landfill. By taking the measures above, the solid waste produced in the Project will not have negative impacts on the surroundings.

Ecological impact

Damage to the vegetation caused by permanent land occupation of the Project will be compensated accordingly, in other words, vegetation with equal area and quality to the damaged will be recovered in another place. By taking measures of vegetation recovery and compensation, the Project will have no impact on local ecological environment. The migration route of birds does not go through the region of the Project, so the wind power generation facilities will not impact the migrating birds.

In summary, by means of measures of pollution avoidance and control as well as ecological recovery, the Project will not impact the environment. And the project indeed does no harm to local environment during these years.

Therefore, the project does not bring negative environmental and socio-economic impacts.

2.2 Local Stakeholder Consultation

Stakeholders of the Project are identified as local residents possibly affected by the Project. In December 2008, a survey was conducted on the stakeholders of the Project, through distributing and collecting responses to a questionnaire.

The questionnaire is distributed to the local residents near the Project Site. They are of different ages and occupations, coming from different towns and villages. For the total 60 questionnaires distributed to the stakeholders, 60 returned with a response rate of 100%.

The questionnaires mainly focus on the following issues:

- What's the extent of the stakeholders' knowledge about the Project?
- What's the attitude of the stakeholders on the construction of the Project?
- What positive impacts will be introduced by the implementation of the Project from the view of stakeholders?
- What negative impacts will be introduced by the implementation of the Project from the view of stakeholders?

According to the 60 questionnaires received:

- 58 respondents (97%) have a certain or very good understanding of the Project and 2 respondents (3%) haven't heard of the Project.
- 58 respondents (97%) support the implementation of the Project and 2 respondents (3%) keep a neutral attitude.
- 40 respondents (67%) think that the implementation of the Project could possibly enhance the electricity consumption of local residents. 18 respondents (30%) think that the implementation of the Project could possibly improve the income of local residents. 33 respondents (55%) think that the implementation of the Project could possibly increase employment opportunities for local residents. None of the respondents put forward any other positive impact possibly caused by the implementation of the Project.
- 22 respondents (37%) think that the implementation of the Project could possibly result in noise. 16 respondents (27%) think that the implementation of the Project could possibly cause land occupation.

None of the respondents put forward any other negative impact possibly caused by the implementation of the Project.

From the results of questionnaire statistics, we know that all the stakeholders understand and support the construction of the Project.

The issue of noise considered by the respondents and corresponding prevention and control measures have been analyzed in the PDD. The Project Owner will take measures to ensure that there will be no noise pollution to the local environment. For the issue of land occupation considered by the respondents, the Project has no relation to the issue of land occupation since the land required by the Project is mainly grassland and the Project Owner has paid for compensation on land occupation, as described in the FSR.

Thus, there is no necessity to modify the Project in the aspect of design, construction and operation. The Project Owner will think much of the public comments and strictly implement the pollution prevention measures stated in the Environmental Impact Statement Form.

For on-going communications with local stakeholders, the project owner public its office telephone to local people by bulletins and put a grievance book in the company's office. Anyone who have comments on the project could write on the book or leave message by phone. Besides, since the project has been operated for years, local people is familiar with the project and remember the phone number of the company. No negative comments were received from local people during this monitoring period.

2.3 AFOLU-Specific Safeguards

Not applicable due to the project is not an AFOLU project.

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The project installed 33 sets of wind turbines with a unit capacity of 1,500 kW and total capacity of 49.5MW. Electricity generated by the Project is delivered to NCPG via a 110 kV transmission line.

The wind power generation process of the project is showed in Figure 4.

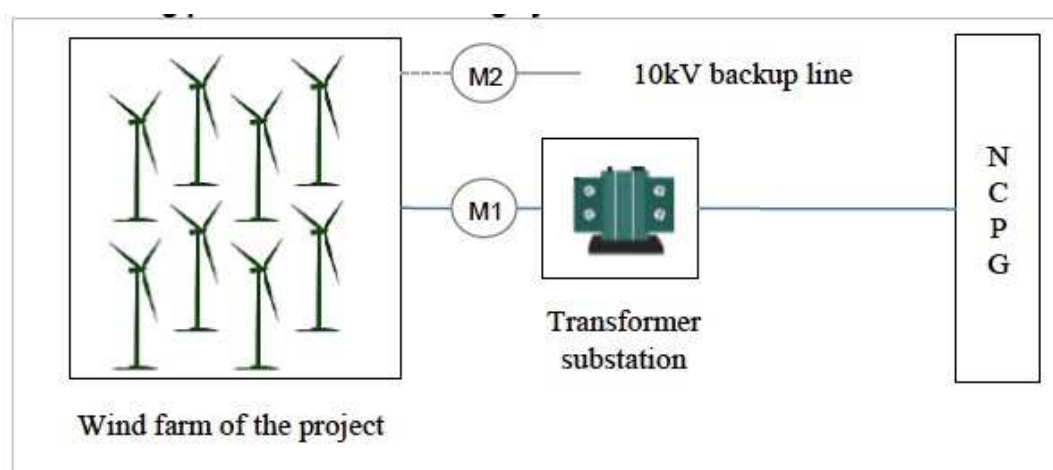


Figure 4. Flow chart of the project

The technical parameters of the installed wind turbines are shown in the table below.

Table 1. Main technical parameters of key equipment in the Project

	Equipment	Quantity	Type	Technical parameters
Main mechanical and electrical equipments	Turbine	33 sets	GE1.5 sle	Rated power: 1,500kW Quantity of blades:3 Height of the hub: 80m Power factor of generator: ± 0.95 Lifetime: 20 years Estimated operating hours: 2368h
Step-up substation	Main transformer	1 set	SZ11-50000/10	Capacity: 50 MVA Rated voltage: 110/35 kV

The Project started construction on 10/05/2009 and commissioning on 30/10/2009. During this monitoring period, the monitoring system of the Project was implemented in line with the monitoring plan.

The wind farm operated normally. No equipment is overhauled or replaced in this monitoring period. No emergencies which may impact the methodology application and monitoring occurred during the monitoring period.

3.2 Deviations

3.2.1 Methodology Deviations

No methodology deviations in this monitoring period.

3.2.2 Project Description Deviations

Crediting period

There is a crediting period deviation in this monitoring period, but this deviation does not affect the applicability, additionality, or appropriateness of baseline scenarios.

The project was registered under VCS scheme in 2011. In the Verification Report of initial VCS monitoring period, it was mentioned that the project started operation since 30/10/2009. As per UNFCCC website, it was confirmed that the project activity was registered as CDM project activity on 03/07/2010. Therefore, the VCS crediting period was determined as 30/10/2009 to 02/07/2010. As per VCS scheme under which the project was registered, the project crediting period is allowable for 10 years and could be renewed twice. Therefore, the total VCS crediting period was determined from 30/10/2009 to 02/07/2031, of which the first VCS crediting period is from 30/10/2009 to 29/10/2019 and the second VCS crediting period is from 30/10/2019 to 29/10/2029. The same has been described in the renewed VCS PD and approved by VERRA.

As a CDM project 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 30/10/2009 and the lifetime of the project is about 20 years, thus, the VCS crediting period will end on the 29/10/2029.

Other Entities Involved in the Project

There is a project proponent deviation in this monitoring period.

During this monitoring period (01/12/2021 to 31/05/2023), in order to carry out the project issuance application more efficiently, besides Demeter Venture UK Limited, two other entities were added to the project proponents.

Demeter Venture UK Limited is the buyer of VCU; Beijing Cronus Technology Consultancy Centre is the project account holder; Beijing Ruifang Information Technology Co., Ltd. Is the project consultant, provide consulting services during issuance process.

This deviation does not affect the applicability of the methodology, additionality or the appropriateness of the baseline scenario.

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,OM,y}
Data unit	tCO ₂ /MWh

Description	Simple operating margin CO ₂ emission factor in year y
Source of data	"2017 Baseline Emission Factors for Regional Power Grids in China" issued by China DNA ⁶
Value applied	0.9680
Justification of choice of data or description of measurement methods and procedures applied	Official public data from NDRC
Purpose of Data	Calculation of baseline emissions
Comments	/

Data / Parameter	EF_{grid,BM,y}
Data unit	tCO ₂ /MWh
Description	Build margin CO ₂ emission factor in year y
Source of data	"2017 Baseline Emission Factors for Regional Power Grids in China" issued by China DNA ⁷
Value applied	0.4578
Justification of choice of data or description of measurement methods and procedures applied	Official public data from NDRC
Purpose of Data	Calculation of baseline emissions
Comments	/

Data / Parameter	WOM
Data unit	%
Description	Weighting of operating margin emissions factor
Source of data	"Tool to calculate the emission factor for an electricity system" (Version 07.0)
Value applied	75

⁶ <http://www.mee.gov.cn/ywgz/ydqhbh/wsqtzkz/201812/P020181220579925103092.pdf>

⁷ <http://www.mee.gov.cn/ywgz/ydqhbh/wsqtzkz/201812/P020181220579925103092.pdf>

Justification of choice of data or description of measurement methods and procedures applied	Based on the requirements of "Tool to calculate the emission factor for an electricity system" (Version 07.0)
Purpose of Data	Calculation of baseline emissions
Comments	/

Data / Parameter	WBM
Data unit	%
Description	Weighting of build margin emissions factor
Source of data	"Tool to calculate the emission factor for an electricity system" (Version 07.0)
Value applied	25
Justification of choice of data or description of measurement methods and procedures applied	Based on the requirements of "Tool to calculate the emission factor for an electricity system" (Version 07.0)
Purpose of Data	Calculation of baseline emissions
Comments	/

4.2 Data and Parameters Monitored

Data / Parameter	EG_{facility,y}
Data unit	MWh/yr
Description	Quantity of net electricity generation supplied by the project plant to the grid in year y
Source of data	Measured by electricity meter
Description of measurement methods and procedures to be applied	Continuously measured by one bi-directional meter installed at the Project Site. It is calculated with electricity delivered by the Project to the grid (EG _{PJtoGRID,y}), electricity imported by the Project from the grid via the main transmission line (EG _{GRIDtoPJ,y}), and electricity imported by the Project from the grid via the 10 kV backup line (EG _{10KVtoPJ,y})

	$EG_{\text{facility},y} = EG_{\text{PJtoGRID},y} - EG_{\text{GRIDtoPJ},y} - EG_{\text{10KVtoPJ},y}$
Frequency of monitoring/recording	Continuously measured and monthly recording
Value monitored	183,664.052
Monitoring equipment	The information of the electricity meter is in the following table.
QA/QC procedures to be applied	The electricity meter is calibrated once a year by qualified entity according to national standards. The electricity records are crosschecked with electricity receipts.
Purpose of the data	Calculation of baseline emissions
Calculation method	$EG_{\text{facility},y} = EG_{\text{PJtoGRID},y} - EG_{\text{GRIDtoPJ},y} - EG_{\text{10KVtoPJ},y}$
Comments	/

Data / Parameter	$EG_{\text{PJtoGRID},y}$
Data unit	MWh
Description	The electricity delivered by the Project to the grid in year y
Source of data	Measured by electricity meter
Description of measurement methods and procedures to be applied	It is continuously measured by the bi-directional meter and monthly recorded. The meter is installed on the main transmission line of the Project. The meter readings are crosschecked with the electricity receipts. The conservative value is used for ER calculation. At 24:00 of the last day of each month, the meter reading were read and recorded by the project owner and grid company.
Frequency of monitoring/recording	Continuously measured and monthly recorded
Value monitored	183,869.022
Monitoring equipment	The information of the electricity meter is in the following table.
QA/QC procedures to be applied	The electricity meter is calibrated once a year by qualified entity according to national standards. The electricity records are crosschecked with electricity receipts. The main information is

	shown below:				
	Type	Serial No.	Accuracy	Calibration Date	Valid date
	DSSD685	09070111 440073	0.2S	25/03/2021	24/03/2022
				25/03/2022	24/03/2023
				25/03/2023	24/03/2024
Purpose of the data	Calculation of baseline emissions				
Calculation method	/				
Comments	/				

Data / Parameter	EG _{GRIDtoPJ,y}
Data unit	MWh
Description	The electricity imported by the project from the grid via the main transmission line in year y
Source of data	Measured by electricity meter
Description of measurement methods and procedures to be applied	It is continuously measured by the bi-directional meter and monthly recorded. The meter is installed on the main transmission line of the Project. The meter readings are crosschecked with the electricity receipts. The conservative value is used for ER calculation. At 24:00 of the last day of each month, the meter reading were read and recorded by the project owner and grid company.
Frequency of monitoring/recording	Continuously measured and monthly recorded
Value monitored	204.970
Monitoring equipment	The information of the electricity meter is in the following table.
QA/QC procedures to be applied	The electricity meter is calibrated once a year by qualified entity according to national standards. The electricity records are crosschecked with electricity receipts. The main information is

	shown below:				
	Type	Serial No.	Accuracy	Calibration Date	Valid date
	DSSD685	09070111 440073	0.2S	25/03/2021	24/03/2022
				25/03/2022	24/03/2023
				25/03/2023	24/03/2024
Purpose of the data	Calculation of baseline emissions				
Calculation method	/				
Comments	/				

Data / Parameter	EG_{10kVtoPJ,y}
Data unit	MWh
Description	The electricity imported by the Project from the grid via the 10 kV backup line in year y
Source of data	Measured by electricity meter
Description of measurement methods and procedures to be applied	It is continuously measured by the meter installed on the 10kV backup line and monthly recorded. The meter readings are crosschecked with electricity receipts. The conservative value is used for ER calculation. At 24:00 of the last day of each month, the meter reading were read and recorded by the project owner and grid company.
Frequency of monitoring/recording	Continuously measured and monthly recorded
Value monitored	0
Monitoring equipment	The information of the electricity meter is in the following table.
QA/QC procedures to be applied	The electricity meter is calibrated once a year by qualified entity according to national standards. The electricity records are crosschecked with electricity receipts. The main information is shown below:

	Type	Serial No.	Accuracy	Calibration Date	Valid date
	DSSD132	20242018	1.0	15/02/2021	14/02/2022
				15/02/2022	14/02/2023
				15/02/2023	14/02/2024
Purpose of the data	Calculation of baseline emissions				
Calculation method	/				
Comments	/				

4.3 Monitoring Plan

1. Monitoring data

The electricity delivered by the Project to the grid in year y ($EG_{PJtoGRID,y}$), the electricity imported from the grid to the Project via the main transmission in year y ($EG_{GRIDtoPJ,y}$), and the electricity imported from the grid to the Project via the backup line in year y ($EG_{10kVtoPJ,y}$) will be monitored.

2. Monitoring System Organization Chart

The monitoring system is shown in Figure 5.

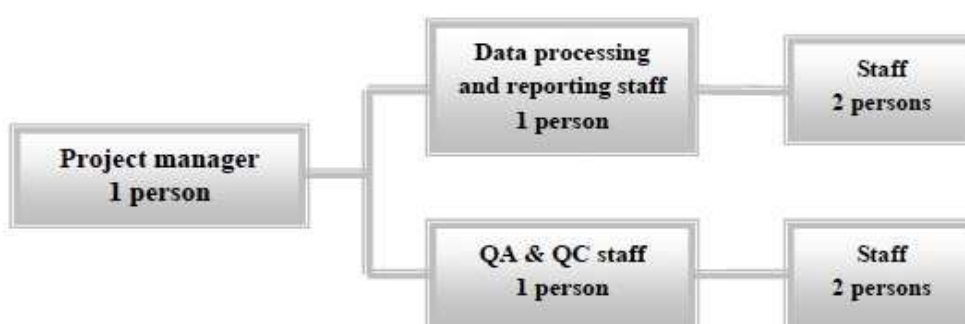


Figure 5. Monitoring structure

The Project Manager is responsible for implementation and supervision of the monitoring activity and liaison in this project. The data processing and reporting personnel are responsible for managing, processing and submitting data. The QA & QC personnel are responsible for calibration of meter and supervision of the whole process quality.

3. Installation of Meter

A bidirectional meter is installed on the main transmission line of the Project. The electricity delivered by the Project to the grid, and electricity imported from the grid to the Project will be measured continuously by bidirectional meter and recorded monthly. A backup meter is installed on the 10kV backup line to monitor the imported electricity from grid through the backup line. No electricity was imported from the backup line during this monitoring period.

Electricity receipts are prepared the grid company and confirmed by the project owner. Electricity receipts is used for crosscheck of the electricity records. If difference exists between the monitored data and the data on receipts, the conservative values will be used to calculate emission reductions.

4. Data Management System

Particular staff will be appointed by the Project Owner to take the overall responsibility for monitoring data recording and keeping all the data collected as part of monitoring archived electronically.

Electronic data and documents, including readings from meter(s) connected into the computer central control system, will be regularly copied and archived via optical discs and hard disk and kept for at least two years after the end of the last crediting period.

Written data and documents will be copied and archived and kept for at least two years after the end of the last crediting period.

5. Quality Assurance and Quality Control Procedure

Particular QC staff will be appointed by the Project Owner to take the overall responsibility of calibrating monitoring equipment, managing and processing the monitored data.

The meter of the Project will be calibrated by qualified entity according to national standard. The actual accuracy of the meter on main transmission line is 0.2S. The accuracy of meter on backup line is 1.0.

6. Procedure of emergency handling

If the meter is out of order, it shall be inspected, repaired, or replaced immediately by the professional staff and quantity of net electricity generation supplied by the Project to the grid shall be determined by the Project Owner and the power grid company. A conservative estimation shall be used to estimate emission reductions.

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

According to ACM0002, the baseline emission during this verification period is calculated as

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

Where:

BE_y is the baseline emissions (tCO₂e)

$EG_{\text{facility},y}$ is Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh);

$EF_{\text{grid},\text{CM},y}$ is the CO₂ emission factor of the NCPG, which is fixed in the first and second crediting period (tCO₂e/MWh)

On the basis of these weights for the second crediting period, the combined margin emission factor ($EF_{\text{CM},y}$) is calculated, and are fixed as 0.84045 tCO₂/MWh.

	CO ₂ emission factor (tCO ₂ /MWh)	Weighting
Simple operating Margin Emissions Factor ($EF_{\text{grid},\text{OM simple},y}$)	0.9680	0.75
Build Margin Emissions Factor ($EF_{\text{grid}, \text{BM},y}$)	0.4578	0.25
Baseline Emissions Factor ($EF_{\text{grid},\text{CM},y}$)	0.84045	

The yearly electricity volume and baseline emissions during this monitoring period are listed in following table 2.

Table 2. Baseline emissions

Period	$EG_{\text{export},y}$ (MWh)	$EG_{\text{import},y}$ (MWh)	$PR_{10kV,y}$ (MWh)	$EG_{\text{facility},y}$ (MWh)	$EF_{\text{grid},\text{CM},y}$ (tCO ₂ /yr)	Baseline Emissions (tCO ₂ e)
01/12/2021- 31/12/2021	10,332.108	10.810	0.000	10,321.298	0.84045	8,674
Total in 2021	10,332.108	10.810	0.000	10,321.298	0.84045	8,674
01/01/2022- 31/01/2022	11,088.571	10.210	0.000	11,078.361	0.84045	9,311
01/02/2022- 28/02/2022	12,922.784	13.570	0.000	12,909.214	0.84045	10,850
01/03/2022- 31/03/2022	10,352.389	16.220	0.000	10,336.169	0.84045	8,687
01/04/2022- 30/04/2022	9,357.852	10.910	0.000	9,346.942	0.84045	7,856
01/05/2022- 31/05/2022	8,016.887	8.820	0.000	8,008.067	0.84045	6,730

01/06/2022-30/06/2022	8,257.091	6.930	0.000	8,250.161	0.84045	6,934
01/07/2022-31/07/2022	8,977.022	10.220	0.000	8,966.802	0.84045	7,536
01/08/2022-31/08/2022	9,334.558	12.470	0.000	9,322.088	0.84045	7,835
01/09/2022-30/09/2022	10,660.477	10.880	0.000	10,649.597	0.84045	8,950
01/10/2022-31/10/2022	10,111.349	11.720	0.000	10,099.629	0.84045	8,488
01/11/2022-30/11/2022	11,618.236	13.040	0.000	11,605.196	0.84045	9,754
01/12/2022-31/12/2022	11,335.563	12.520	0.000	11,323.043	0.84045	9,516
Total in 2022	122,032.779	137.510	0.000	121,895.269	0.84045	102,446
01/01/2023-31/01/2023	10,851.778	9.310	0.000	10,842.468	0.84045	9,113
01/02/2023-28/02/2023	11,003.482	12.220	0.000	10,991.262	0.84045	9,238
01/03/2023-31/03/2023	10,903.554	13.040	0.000	10,890.514	0.84045	9,153
01/04/2023-30/04/2023	9,235.671	8.750	0.000	9,226.921	0.84045	7,755
01/05/2023-31/05/2023	9,509.650	13.330	0.000	9,496.320	0.84045	7,981
Total in 2023	51,504.135	56.650	0.000	51,447.485	0.84045	43,239
Total in this monitoring period	183,869.022	204.970	-	183,664.052		154,359

The monthly data are shown in appendix 1.

In summary, the baseline emissions BE_y during this monitoring period is 154,359 tCO₂e.

5.2 Project Emissions

According to the ACM0002, the emission of wind power project activity is zero, i.e. $PE_y=0$.

5.3 Leakage

According to ACM0002, the leakage of wind power project is not needed to be considered.

5.4 Net GHG Emission Reductions and Removals

In according with the registered PD, $ER_y=BE_y - PE_y$

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)
01/12/2021-31/12/2021	8,674	0	0	8,674

01/01/2022-31/12/2022	102,446	0	0	102,446
01/01/2023-31/05/2023	43,239	0	0	43,239
Total	154,359	0	0	154,359

According to the renewal VCS PD, the estimated annual GHG emission reductions during the second crediting period (from 30/10/2019 to 29/10/2029) are 98,603 tCO₂e/yr.

This monitoring period is from 01/12/2021 to 31/05/2023 (547 days). The emission reductions claimed are 154,359 tCO₂e in this monitoring period (i.e. 547 days). Compared with expected emission reductions 147,769 tCO₂e in the renewal VCS PD ($98,603 \times 547 / 365 = 147,769$), the reported emission reductions in this monitoring period are 4.46% larger than the expected, which is considered to be in the reasonable variation range.

Year	Net GHG emission reductions or removals (tCO ₂ e)	<u>Ex-ante emissions reductions</u> (tCO ₂ e)	<u>Percent difference</u>
01/12/2021-31/12/2021	8,674	8,375	3.58%
01/01/2022-31/12/2022	102,446	98,603	3.90%
01/01/2023-31/05/2023	43,239	40,792	6.00%
Total	154,359	147,769	4.46%

This will not impact the additionally of the project activity as the sensitivity analysis of the project activity shows that the IRR will not exceeds benchmark until an 21.13% increase in Grid-connected electricity. The main reason for the electricity generation increase is that the wind flow in this monitoring period are larger than the designing value in the FSR, the management skills of the plant improves gradually and the wind power accommodation capacity of the grid is increasing.

<u>Ex-ante emissions reductions</u>	<u>Achieved emissions reductions</u>	<u>Percent difference</u>	<u>Justification for the difference</u>
8,674 (Monitoring Period: 01/12/2021-31/12/2021)	8,375	3.58%	The actual power generation was larger than expected, mainly due to the rich wind energy resources in the project area. According to Annual

			Bulletin of China's Wind and Solar Energy Resources in 2021⁸, wind turbines commonly installed with a height of 70 meters have better wind energy resources, which is conducive to wind power generation. This project is located in Zhangjiakou City, Hebei Province, which is located in the Inner Mongolia Plateau and the northern Hebei mountain transition zone, with unique wind energy resources. According to the tests of authoritative institutions, the average annual effective wind speed time is more than 5475 hours, which is much higher than the average national wind power utilization hours of 2,232 hours during the period of 2021-2022 released by China Electricity Union⁹.
102,446 (Monitoring Period: 01/01/2022-31/12/2022)	98,603	3.90%	The actual power generation was larger than expected, mainly due to the rich wind energy resources in the project area. According to Annual Bulletin of China's Wind and Solar Energy Resources in 2022¹⁰, wind turbines commonly installed with a height of 70 meters have better wind energy resources, which is conducive to wind power generation. This project is located in Zhangjiakou City, Hebei Province, which is located in the Inner Mongolia Plateau and the northern Hebei mountain transition zone, with unique wind energy resources. According to the tests of authoritative institutions, the average annual effective wind speed time is more than 5475 hours, which is much higher than the average national wind power utilization hours of 2,232 hours during the period of 2021-

⁸ https://www.cma.gov.cn/zfxxgk/gknr/qxbg/202204/t20220429_4798342.html
⁹ <https://www.cec.org.cn/detail/index.html?3-306171&wd=&eqid=8d1b0644003967e5000000026487bc51>
¹⁰ https://www.cma.gov.cn/zfxxgk/gknr/qxbg/202304/t20230421_5454513.html

			2022 released by China Electricity Union ¹¹ .
43,239 (Monitoring Period: 01/01/2023- 31/05/2023)	40,792	6.00%	This project is located in Zhangjiakou City, Hebei Province, which is located in the Inner Mongolia Plateau and the northern Hebei mountain transition zone, with unique wind energy resources. According to the tests of authoritative institutions, the average annual effective wind speed time is more than 5475 hours, which is much higher than the average national wind power utilization hours of 2,221 hours in 2023 released by China Electricity Union¹².

To summarize the above, the reported emission reductions in this monitoring period are 4.46% larger than the expected is considered to be in the reasonable variation range. This will not impact the additionally of the project activity as the sensitivity analysis of the project activity shows that the IRR will not exceeds benchmark until an 21.13% increase in Grid-connected electricity. The main reason for the electricity generation increase is that the wind flow in this monitoring period are larger than the designing value in the FSR, the management skills of the plant improves gradually and the wind power accommodation capacity of the grid is increasing.

¹¹<https://www.cec.org.cn/detail/index.html?3-323217>

¹²<https://www.cec.org.cn/detail/index.html?3-317477>

APPENDIX 1: < MONTHLY AND YEARLY ELECTRICITY SUPPLY >

Period	EGPJtoGRID,y			EGGRIDtoPJ,y			PR10KV,y	EGfacility,y
	Data from monthly meter reading records (MWh)	Data from electricity receipts (MWh)	Conservative data for ER calculation (MWh)	Data from monthly meter reading records (MWh)	Data from electricity receipts (MWh)	Conservative value for ER calculation (MWh)		
	A	B	C=min(A,B)	D	E	F=max(D,E)		
01/12/2021 - 31/12/2021	10,332.108	10,332.108	10,332.108	10.810	10.810	10.810	0.000	10321.298
Total in 2021	10,332.108	10,332.108	10,332.108	10.810	10.810	10.810	0.000	10,321.298
01/01/2022 - 31/01/2022	11,088.571	11,088.571	11,088.571	10.210	10.210	10.210	0.000	11078.361
01/02/2022 - 28/02/2022	12,922.784	12,922.784	12,922.784	13.570	13.570	13.570	0.000	12909.214
01/03/2022 - 31/03/2022	10,352.389	10,352.389	10,352.389	16.220	16.220	16.220	0.000	10336.169
01/04/2022 - 30/04/2022	9,357.852	9,357.852	9,357.852	10.910	10.910	10.910	0.000	9346.942
01/05/2022 - 31/05/2022	8,016.887	8,016.887	8,016.887	8.820	8.820	8.820	0.000	8008.067
01/06/2022 - 30/06/2022	8,257.091	8,257.091	8,257.091	6.930	6.930	6.930	0.000	8250.161
01/07/2022 -	8,977.022	8,977.022	8,977.022	10.220	10.220	10.220	0.000	8966.802

31/07/2022								
01/08/2022	9,334.558	9,334.558	9,334.558	12.470	12.470	12.470	0.000	9322.088
-								
31/08/2022	10,660.477	10,660.477	10,660.477	10.880	10.880	10.880	0.000	10649.597
01/09/2022								
-								
30/09/2022	10,111.349	10,111.349	10,111.349	11.720	11.720	11.720	0.000	10099.629
01/10/2022								
-								
31/10/2022	11,618.236	11,618.236	11,618.236	13.040	13.040	13.040	0.000	11605.196
01/11/2022								
-								
30/11/2022	11,335.563	11,335.563	11,335.563	12.520	12.520	12.520	0.000	11323.043
01/12/2022								
-								
31/12/2022	122,032.779	122,032.779	122,032.779	137.510	137.510	137.510	0.000	121,895.269
Total in 2022								
01/01/2023	10,851.778	10,851.778	10,851.778	9.310	9.310	9.310	0.000	10842.468
-								
31/01/2023	11,003.482	11,003.482	11,003.482	12.220	12.220	12.220	0.000	10991.262
01/02/2023								
-								
28/02/2023	10,903.554	10,903.554	10,903.554	13.040	13.040	13.040	0.000	10890.514
01/03/2023								
-								
31/03/2023	9,235.671	9,235.671	9,235.671	8.750	8.750	8.750	0.000	9226.921
01/04/2023								
-								
30/04/2023	9,509.650	9,509.650	9,509.650	13.330	13.330	13.330	0.000	9496.320
01/05/2023								
-								
31/05/2023	51,504.135	51,504.135	51,504.135	56.650	56.650	56.650	0.000	51,447.485
Total in 2023								
Total in this monitoring period	183,869.022	183,869.022	183,869.022	204.970	204.970	204.970	0.000	183,664.052

APPENDIX 2: < DESCRIPTION OF EMPLOYMENT AND SALARY>

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

<https://registry.verra.org/app/projectDetail/VCS/736>

<https://cdm.unfccc.int/Projects/DB/BVQI1265358035.51/view>

Monitoring period	EG _y (MWh)	Emission Reductions (tCO ₂ e)	Status
01/12/2009-30/06/2010	82,428.486	86,949	Issued
03/07/2010-30/07/2011	126,402.693	133,335	Issued
31/07/2011-29/06/2012	105,758.011	111,558	Issued
30/06/2012-31/12/2012	54,015.000	56,977	Awaiting issuance under CDM
01/01/2013-30/09/2015	317,913.000	335,350	Issued
01/10/2015 - 29/09/2019	502,936.760	530,521	Issued
30/09/2019 -30/11/2021	273,089.401	231,752	Awaiting issuance under VCS
01/12/2021 -3105/2023	183,664.052	154,359	In requesting for VCUs
Total	1,646,207.403	1,640,801	

Evidence for 8: The payroll of the project staff, including name, gender, wage, insurance and housing fund and other specific information has been submitted to VVB for verification. Thus, the payroll is not included as appendices to this report due to confidentiality requirement of the project proponent.

说 明

沽源五花坪 49.5MW 风电项目，建设阶段为当地提供了超过 300 个工作岗位，并在项目运营期间提供 42 个永久工作岗位。截至目前，员工人数共计 42 人，女员工 20 人，其中 10 名员工为项目周边村庄居民。

本项目严格遵守国家政策规定和公司薪资管理制度，2021-2023 年间，人均税后工资为 5000 元/月。下一步，项目公司还将增设更多岗位，帮助周边村民实现就近就地就业。

特此说明！

建投燕山(沽源)风能有限公司

2023 年 6 月 7 日

Guyuan Wuhuaping 49.5 MW Wind Power Project has provided more than 300 local jobs during the construction phase and 42 permanent jobs during the project operation. Up to now, the total number of employees is 42, including 20 female employees, 10 of whom are residents of the villages surrounding the project.

The project company strictly complies with national policies and regulations and the company's salary management system. Between the years 2021-2023, the per capita after-tax salary is 5,000 Yuan RMB/month. In the next step, the project company will add more jobs to help villagers find jobs nearby.

Construction Investment Yanshan (Guyuan) Wind Energy Co., Ltd.

June 7, 2023