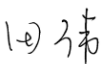




VERIFICATION REPORT FOR NINGXIA XIANGSHAN WIND FARM PROJECT

Document Prepared by China Classification Society Certification Co., Ltd.
(CCSC)

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Prepared by	China Classification Society Certification Co. Ltd. (CCSC)
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Technical Reviewers: TANG Zhiang, PIAO Lijing

Summary:

China Classification Society Certification Co., Ltd. (hereafter referred to as “CCSC”) has been commissioned by Beijing Cronus Technology Consultancy Centre to perform the verification of greenhouse gas emission reductions of the project activity “Ningxia Xiangshan Wind Farm Project” (VCS Ref. No. 1867, hereafter referred to as “the project”) reported in the monitoring report during monitoring period 01/09/2022–31/08/2024. The verification scope is defined as a periodic independent and objective review and ex-post determination by the Designated Operational Entity of the monitored reductions in GHG emissions during defined verification period, and consisted of the following three phases: i) desk review of the project design and the baseline and monitoring plan; ii) follow-up on-site visit and interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion.

CCSC appointed a qualified audit team in accordance with internal procedures to perform the verification. In the course of the verification, Zero Corrective Action Requests (CARs), Three Clarification Requests (CLs) and Zero Forwarded Action Request (FAR) were raised.

The overall verification, from Contract Review to Verification Report & Opinion, was conducted following CCSC internal procedures. In summary, CCSC confirms that the Project is implemented as planned and described in the validated VCS-PD. Deviations from the monitoring plan are sufficiently justified. Installed equipment being essential for generating emission reduction runs reliably and has been calibrated appropriately. The monitoring system is in place and the Project is ready to reduce GHG emission. The GHG emission reduction is calculated without material misstatements, and the emission reductions verified totalize 1,448,318 tons of CO₂e for this monitoring period. Our opinion relates to the Project’s GHG emission reductions viz. Voluntary Carbon Units (VCUs) reported are based on the valid project baseline, deviation on the monitoring plan and associated documents. Based on the evidence and information that are considered necessary to guarantee that GHG emission reductions are appropriately calculated. In conclusion, CCSC confirms the following statement:

Beijing Cronus Technology Consultancy Centre has commissioned the China Classification Society Certification Co. Ltd. (CCSC) to carry out the Verified Carbon Standard (VCS) 6th periodic verification of the project, “Ningxia Xiangshan Wind Farm Project” (1867) regarding the relevant requirements of VCS standard Version 4.7. CCSC confirms all verification activities including objectives, scope and criteria, level of assurance, monitoring and monitoring report adhere to VCS Version 4.7 and all associated updated as documented in this report, are complete. China Classification Society Certification Co. Ltd concludes that the project activity “Ningxia Xiangshan Wind Farm Project” in China, as described in the final version of Monitoring Report, meets all relevant requirements for VCS verification activity and correctly applied the methodology ACM0002 (version 19). Hence China Classification Society Certification Co. Ltd is able to certify that the GHG removals the project during the monitoring period 01/09/2022–31/08/2024 amount to 1,448,318 tCO₂e.

1	Introduction	4
1.1	Objective.....	4
1.2	Scope and Criteria	4
1.3	Level of Assurance.....	4
1.4	Summary Description of the Project	5
2	Verification Process.....	6
2.1	Method and Criteria.....	6
2.2	Document Review	6
2.3	Interviews.....	7
2.4	Site Visits.....	8
2.5	Resolution of Findings	9
2.6	Eligibility for Validation Activities	9
3	Validation Findings.....	10
3.1	Methodology Deviations.....	10
3.2	Project Description Deviations.....	10
3.3	New Project Activity Instances in Grouped Projects.....	11
3.4	Baseline Reassessment	11
4	Verification Findings.....	11
4.1	Project Details	11
4.2	Safeguards	14
4.3	Accuracy of Reduction and Removal Calculations.....	26
4.4	Quality of Evidence to Determine GHG Emission Reductions and Removals	34
4.5	Non-Permanence Risk Analysis.....	34
5	Verification OPINION.....	34
5.1	Verification Summary	35
5.2	Verification Conclusion	36
5.3	Ex-ante vs Ex-post ERR Comparison	36
APPENDIX A: abbreviations		39
APPENDIX B: DOCUMENTS REVIEWED OR REFERENCED.....		41

APPENDIX C: RESOLUTION OF CLARIFICATION REQUESTS AND CORRECTIVE ACTION REQUESTS AND FORWARD ACTION REQUESTS	43
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1 INTRODUCTION

1.1 Objective

Beijing Cronus Technology Consultancy Centre has commissioned China Classification Society Certification Co., Ltd. (herein after refer to as CCSC) to performed the verification of Ningxia Xiangshan Wind Farm Project (hereafter referred to as “the project”) and the verification of the project covering the monitoring period from 01/09/2022–31/08/2024 as the second monitoring period of the first crediting period, on the basis of requirements of Verified Carbon Standard (VCS) Version 4.7.

CCSC as the validation/verification body (VVB) of the project has been accredited as a DOE by UNFCCC and meets the competence requirements as set out in ISO 14065:2020.

The objective of verification is to verify the reported voluntary emission reductions generated by the Project for the period from 01/09/2022–31/08/2024 and to confirm that actual monitoring systems and procedures are in compliance with that described in the monitoring plan and the additional requirements stated by Verra.

1.2 Scope and Criteria

The verification scope encompasses an independent and objective review and ex-post determination of the monitored reductions in GHG emissions by the CCSC. The verification scope covers the relevant documents (e.g., the registered VCS-PD, the monitoring report, the emission reduction calculation spreadsheet, supporting documents available to the verifier and information collected through performing interviews and during the on-site inspection, VERRA’s requirements publicly available, relevant rules, including the host country legislation, etc.) to be independently reviewed, the project geographical locations to be visited on-site, the related project stakeholders to be interviewed with, and processes that are necessary to acquire objective evidence for the evaluation of the project compliance to the VCS requirements and associated interpretations. The verification activities are conducted according to the VERRA’s requirements. In doing so, the principles of accuracy and completeness, relevance, reliability and credibility were followed. The verification is not meant to provide any consulting service towards the PPs. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the project.

1.3 Level of Assurance

CCSC has undertaken a reasonable assurance engagement in accordance with VCS Standard (version 4.7). The verification conclusions are based on the registered PD and supporting evidences made available to the VVB and information collected through performing interviews and during the on-site inspection.

1.4 Summary Description of the Project

<i>Project title</i>	Ningxia Xiangshan Wind Farm Project
<i>VCS reference number</i>	1867
<i>Crediting period (VCS)</i>	15/04/2017 to 14/04/2027, totally 10 years;
<i>Monitoring period</i>	01/09/2022–31/08/2024
<i>Applied Methodology/Version</i>	ACM0002 (Version 19.0)
<i>Scope/Technical Area</i>	Scope 1 Energy (Renewable/non-renewable).
<i>VCS link:</i>	https://registry.verra.org/app/projectDetail/VCS/1867
<i>Project Proponent</i>	Ningxia Zhongwei Aluminum New Energy Co., Ltd.(Project Owner, host country, P. R. China) DEMETER VENTURE UK LIMITED (Project buyer) Beijing Cronus Technology Consultancy Centre (Project participant)
<i>Location of the project</i>	Located at Zhongwei City, Ningxia Hui Autonomous Region, People's Republic of China. The geographic coordinates of the project: longitude: 106° 41' 32" to 108° 23' 65" E, latitude 37° 14' 05" to 39° 05' 23" N

The project activity is a wind power project located at Zhongwei City, Ningxia Hui Autonomous Region, People's Republic of China., using wind power resources for electricity generation.

The project has a total installed capacity of 397.5MW consisting of 265 wind turbines with unit capacity of 1,500kW. The expected annual power delivered to the grid is 948,633.8 MWh. The power generated will be delivered to the Northwest Power Grid (NWPG) via Ningxia Power Grid to replace equivalent amount of electricity that would have otherwise been generated by other fossil fuel power plants. Therefore, this project could avoid GHG emissions. The estimated annual average emission reductions are 727,982 tCO₂e.

The total net electricity supplied to the grid by the project in this monitoring period are 1,887,318.076 MWh and the emission reductions in this monitoring period are 1,448,318 tCO_{2e}. The project started construction on 01/11/2016 and started commercial operation on 15/04/2017 and fully operation on 20/07/2017.

2 VERIFICATION PROCESS

2.1 Method and Criteria

The verification was performed through means of the following three phases in accordance with the requirement of the approved revised Joint PD & MR, the applied methodology, and the VCS Standard (Version 4.7) and other relevant VCS requirements:

- A desk review of the monitoring report and all support documents;
- Follow-up interviews with project stakeholders and site inspection;
- The resolution of outstanding issues and the issuance of the verification report and statement.

The following sections outline each step in more detail.

The verification of the emission reductions has assessed all factors and issues that constitute the basis for emission reductions from the project. These include:

- The emission reduction calculations and the relevant data records;
- The calibration and maintenance records for the monitoring instruments;
- The management systems to support the project operation and monitoring.

2.2 Document Review

The documents reviewed by the CCSC include but not limited to the Monitoring Report submitted by Beijing Cronus Technology Consultancy Centre, the approved revised Joint PD & MR, and additional background documents related to the project design and baseline, i.e., National Laws, validation Reports, applied methodologies, Clarifications on Validation Requirements to be Checked by a certified validation body.

Furthermore, crosschecks were made between information provided in the Joint PD & MR and information from sources other than those used.

CL-1 is raised that:

PP is required to supplement the following documents:

1. Operation log
2. Monitoring manual
3. Records of training for on-site staff.
4. grid-connected scheduling protocol

All the documents provided by the PP have been received and confirmed by CCSC, therefore **CL-1** is closed.

2.3 Interviews

The follow-up interview was conducted the physical site visit on 09/10/2024 by Mr. LI Xingtong (Team Leader) and Mr. ZHAO Gen (Trainee) from CCSC, which focused on the issues identified during the desk review. The main topics of the interviews are summarized in Table 1.

Table 1. Interview topics

Interviewed Organization and Persons	Interview Topics
Ningxia Zhongwei Aluminum New Energy Co., Ltd. ZHANG Hongbo, Director of the plant LI Zhichao LIU Hongyu, Maintenance staff QIAO Zhendong, Maintenance foreman	↗ Project background information ↗ Project technology, operation, maintenance and monitoring capability. ↗ Project monitoring and management plan. ↗ The evidences of construction status and operation of key equipment, parameters monitoring and data processing activities, monitor equipment and calibration.
DEMETER VENTURE UK LIMITED Fan Xiaowen	↗ Monitoring data. ↗ Quality Management; organizational structure, responsibilities and competencies; Internal QA/QC Management procedures and document control. ↗ Compliance with National Laws and Regulations.
Local villagers: ZHANG Lan, WANG Dong, LI Ping, MA Zhi, LIU Mei, ZHANG Yan.	↗ The process and participation of the stakeholder consultation ↗ The environmental and social impacts of the project ↗ Any complaints by the local stakeholders and the implementation of the mitigation measures

2.4 Site Visits

The assessment team performed the physical on-site verification on 09/10/2024. Site inspection was conducted as below:

Table 2 Onsite Plan

Duration of on-site inspection: 09/10/2024				
No.	Activity performed on-site	Site location	Date	Team member
1.	Open meeting - Scope of work - VCS rules and regulations - Verification methodology/tool/guideline - Timeframe - Procedures for verification - CCSC internal approval process - Confidentiality	Project site	09/10/2024	LI Xingtong ZHAO Gen
2.	Management interview - Implementation & Operation - Monitoring System - Information flow - Management & Operation Procedure - Local stakeholder consultation - Sustainable development contribution	Project site	09/10/2024	
3.	Site visit - Inspection of installations (Centre control room, On-site Meters, etc.) - Interviews about operation procedures, meter reading, etc.	Project site	09/10/2024	
4.	Documents review - Implementation - Calibration - QA/QC procedures - Qualification & Training - Monitoring records - Cross-check data - ER calculations	Project site	09/10/2024	
5.	Close meeting - Summary of findings - Follow-up actions	Project site	09/10/2024	

The interviewed personnel and objective are listed in above table.

Through onsite inspection, the verification can confirm that the Project is implemented as planned and described in the validated VCS-PD. Actual monitoring activities complied with the monitoring plan. Installed equipment being essential for generating emission reduction has been running reliably and has been calibrated properly in this monitoring period. The monitoring system is in place and the project reduces GHG emission by replacing fossil fuel power generation.

2.5 Resolution of Findings

The objective of this phase of the verification is to resolve issues that require further elaboration, research or expansion prior to CCSC's positive conclusion on the project design.

A Corrective Action Request (CAR) is raised, if one of the following situations occurs:

- (a) The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable, verifiable and additional emission reductions;
- (b) The applicable VCS requirements have not been met;
- (c) There is a risk that emission reductions cannot be monitored or calculated.

A Clarification Request (CL) is raised, if information is insufficient or not clear enough to determine whether the applicable VCS requirements have been met.

A Forward Action Request (FAR) may also be raised during verification, to identify issues related to project implementation that require review during the first verification of the project activity.

The verification team identified 0 CAR and 3 CL in this monitoring period

To guarantee the transparency of the verification process, a summary of each finding, including the issues raised, the response(s) provided by the project proponent, and the final conclusions and any resulting changes to project documents are documented in the Appendix D.

2.5.1 Forward Action Requests

No FAR was raised during this verification process, neither was any remaining one from previous verification or validation.

2.5.2 Eligibility for Validation Activities

Not applicable as China Classification Society Certification Co. Ltd. holds the accreditation for the validation and verification for projects under scope 1.

3 VALIDATION FINDINGS

This project has been registered as a VCS project with reference No. 1867 as shown in the VCS project information website (<https://registry.terra.org/app/projectDetail/VCS/1867>). By checking the registered Joint PD & MR.

The project does not participate in any other emission trading program, as verified by the CCSC by checking the online public information, reviewing the no double counting statement issued by project owner, and interviewing with project owner.

The verification team reviewed issuance information in VCS registry system, and confirmed that GHG Emission Reductions Credits have been issued as Table 3:

Table 3. List of GHG emission reduction credits issued

Monitoring period	GHG emission reductions (tCO ₂ e)	Credit Type	Program
15/04/2017-28/02/2019	1,535,574	VCU	VCS
01/03/2019-29/02/2020	780,389	VCU	VCS
01/03/2020- 31/12/2020	624,588	VCU	VCS
01/01/2021-30/09/2021	581,127	VCU	VCS
01/10/2021-31/08/2022	707,545	VCU	VCS

Besides, the PP has issued the statement that the PP will not request the issuance from other GHG programs for this monitoring period. Therefore, CCSC consider the project is eligible to participate under the VCS Program as there is no double counting for the emission reduction during any period.

3.1 Methodology Deviations

Not applicable as there is no methodology deviation in this monitoring period.

3.2 Project Description Deviations

By reviewing the registeted PD & MR (version 2.0 dated 07/04/2019) and the monitoring report (version 03 dated 27/12/2024). the CCSC confirms that there is one project description deviation in this monitoring period, which involves the addition of a project entity. CCSC confirms that this deviation would not affect the applicability of the methodology, the additionality of the project, or the appropriateness of

the baseline scenario. The deviation is appropriately described and justified, and the project remains in conformance with the VCS rules. In conclusion, the CCSC confirms that the project deviation is valid.

3.3 New Project Activity Instances in Grouped Projects

Not applicable as this project is not a grouped project.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes

☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

Item	Evidence gathering activities, evidence checked, and assessment conclusion:
Audit history	The project start date was identified as 15/04/2017 when the project started to operate and began generating GHG emission reductions. According to VCS Standard 3.0, the project crediting period under VCS Version 03 shall be deemed as 10 years and commences at the specific project crediting period start date. The project was validated by LGAI Technological Center S.A. (Applus+ Certification) on 08/04/2019 against VCS Standard version 3.7 and the starting date of the crediting period was chosen by the project proponent as 15/04/2017. Hence, the crediting period of the project is from 15/04/2017 to 14/04/2027. The same has been justified in the Joint Validation & Verification Report and verification report of previous monitoring period. The selected monitoring period 01/09/2022 to 31/08/2024 is the 6 th monitoring period of the project, which is within the crediting period 15/04/2017 to 14/04/2027.

Double counting and participation under other GHG programs	CCSC checked public information from the UNFCCC website, REC Mechanism database of China, I-REC database, Chinese Emission Trading System, Gold Standard Registry and interviewed with project owner during site visit, it is confirmed that except VCS scheme, the project has not been participated or been rejected under any other GHG programs since validation. Therefore, the verification team confirmed that the project only applies VCUs under VCS, and no rejection from VCS occurs, there are no other forms of environmental credits applied or issued for the project activity, the emission reduction resulted from the project during this monitoring period would only apply for VCUs.
No double claiming with emissions trading programs or binding emission limits	Based on VVB's local expertise, China has a national emissions trading scheme only cover the high-emission industries, such as eight emission-intensive industries including heat generation, petrochemicals, chemicals, building materials, non-ferrous metals, papermaking, steel and aviation that emitted at least 26,000 tons of CO₂e/year which has been verified in the public website of Ministry of Ecology and Environment of the People's Republic of China (MEE) (https://www.mee.gov.cn/), and it is confirmed that there is no emission cap enforced for the project owner by checking the enforced company list in public information. Therefore, it can be concluded that the PP will not be included in the national ETS. Hence, it is confirmed that the emission reductions will not be double counted.
No double claiming with other forms of environmental credit	Via interview with the project developer and CCER Mechanism database of China, Chinese Emission Trading System as well as through checking the statement on no double counting provided by project proponent, it is confirmed that the project has not created any other form of environmental credit.
Supply chain (scope 3) emissions double claiming	CCSC confirms the project is located Zhongwei City, Ningxia Hui Autonomous Region, People's Republic of China. It is operated by Ningxia Zhongwei Aluminum New Energy Co., Ltd. The project has a total installed capacity of 397.5MW consisting of 265 wind turbines with unit capacity of 1,500kW. The expected annual power delivered to the grid is 948,633.8 MWh. The power generated will be delivered to the Northwest Power Grid (NWPG) via Ningxia Power Grid

	Hence, the project does not affect emissions associated with a good or service, nor it will affect the indirect upstream and downstream GHG emissions in supply chain.
Sustainable development contributions	By checking the renewed PDD and 17 SDGs defined by UNDP, and interviewing with stakeholders during site visit, the verification team confirmed that the project would contribute to sustainable development in as below: - SDG 7: Providing clean and renewable energy source and displacing the power generation of fossil fuel power plants, reducing pollution emissions caused by coal burning significantly, thus mitigating the air pollution and its adverse impacts on human health, promoting sustainable economic development in local area. During this monitoring period, the renewable energy supplied to the power grid was 1,887,318.076 MWh. By checking and VERRA website, it is confirmed that since operation of the project activity, the cumulative renewable energy supplied to NWPG was 7,398,453.606 MWh. - SDG 8: Providing employment opportunities during construction and operation period, which promotes sustained, inclusive and sustainable economic growth, full and productive employment and decent work for local residents. By checking staff roster listed in Appendix of the MR, it is confirmed that since operation of the project activity, 65 long term working opportunities, including 13 females, are provided. - SDG 13: Reducing greenhouse gas emissions compared to a business-as-usual scenario. Through checking the electricity statement, during this monitoring period, the emission reductions achieved were 1,448,318 tCO₂e. By checking and VERRA website, it is confirmed that since operation of the project activity, the cumulative emission reductions achieved were 5,677,541 tCO₂e.
Additional information relevant to the project	Through interviews with the project developer, CCSC confirms that there is no commercially sensitive information has been excluded from the public version of the project description and there is no other relevant information that may have a bearing on the eligibility of the project, the reductions or removals, or the quantification of the project's reductions or removals.

4.2 Safeguards

4.2.1 Stakeholder Identification

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Stakeholder identification	The stakeholders should be all the communities and parties which are relevant to the project activity or impacted by the project or have interest in the project. The MR states that the wind power project is located in the wasteland of Zhongwei city, thus, the people that may be possibly impacted by the project are whose residents nearby and the employees who work in the plant, and local government especially the village committees are included. And there is no change of stakeholder since validation. Via checking the MR and other relevant documents and base on the on-site interview, the stakeholders are identified including the employees of the project and the local resident., local government and the village committees. On-site inspection and interview through site visits, VVB interviewed local villagers and local government stakeholder representatives, most of whom were involved in the implementation of the Project. Through the observation of the implementation of Project and interviews with community and government stakeholders, it was determined that the Project was implemented in areas affecting the community. The local government was responsible for the approval and related environmental and social issues. The Project provided job opportunities and related training for local residents. Therefore, it is verified that each stakeholder is correctly identified, relevant analysis and evaluation, and the relevance of the stakeholder to the Project activities is sufficient.
Legal or customary tenure/access rights	Through on-site validation, CCSC confirms that the project is located at Zhongwei City, Ningxia Hui Autonomous Region, People's Republic of China. The project owner has the legal rights to construct and operate the project and own the equipment and product of the project.

	Through on-site interview with the local stakeholders, CCSC confirms that there is no right conflict with local people. The land occupied by this project is waste land, and all of them are government owned. No agriculture land is occupied by this project. The project owner has applied to Zhongwei Municipal Natural Resources Bureau before the project start and was approved by the Ningxia Autonomous Region Development and Reform Commission. And there is no relocation in this project.
Stakeholder diversity and changes over time	Through interviews, CCSC confirms the diversity of stakeholders: As for the employees, all of them are from Zhongwei city. Males and females are included in the project. The employees of this project and the local residents include Han population and Hui population. Local residents and government people also include Han population and Hui people. There is no big difference between each kind of stakeholders. Employees are payed directly by this project, while local residents and government more pay attention to the social and environmental benefits. Hui people believe in Islam, they dot eat pig, they have their own traditional festivals and costume. In addition to the above, there are no other significant difference in the social, economic and culture. Plus, there is no significant change in the make-up of each group over time. Therefore, CCSC has checked that it is reasonable to conclude that members of each group will adjust over time, but that their groups will not change much socially, economically, culturally, etc.
Expected changes in well-being	PP states that there is no there is no expected change in the well-being of stakeholders. Besides, no special environmental related activity is and will be implemented. Therefore, no expected change will happen in ecosystem. CCSC confirmed that the Project generates electricity from renewable source to displace equal electricity generated from NWPG and reducing the impact of greenhouse gases on climate. Collectively, no expected change will happen in ecosystem.
Location of stakeholders	The stakeholders are located in the project site and Zhongwei city. Local villages and communities include Haojiadigou village, Cheluhao village, Laofentang village, Pengdigou village, etc. The project is owned by the Ningxia Zhongwei Aluminum New Energy Co., Ltd. which is also located in the project site. Via on-site inspection, CCSC confirms that the identification of Location of stakeholders is reasonable and accurate.

Location of resources	The project is located at Zhongwei city, Ningxia Hui Autonomous Region. The area in which the project is located is the location of resources. Via on-site inspection, CCSC confirms that the identification of Location of stakeholders is reasonable and accurate.
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4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Ongoing consultation	Through on-site visits and interviews with stakeholders, CCSC confirmed that PP has established a mechanism for continuous communication with local stakeholders. the project owner public its telephone through bulletin and oral notice to local people. Anyone who have comments on the project could phone the project owner directly. Besides, the project owner also put a grievance book in the office of wind plant. People can leave their grievance or suggestions on the book. The Project proponent personnel would review and respond to the comments or complaints and record the response in the timely manner. Meanwhile, the local authority has also conducted spot checks on the implementation of the project from time to time as per the request from the local governments' regulations.
Date(s) of stakeholder consultation	Through on-site interview with local stakeholders and checking relevant documents, it is confirmed that the project owner did the stakeholders' survey in Nov 2017. The survey was conducted in Xiangshan County. 46 questionnaires were released, and all were got back.
Communication of monitored results	Through checking the methodology ACM0002 Consolidated methodology for grid-connected electricity generation from renewable sources (version 19.0), the approved revised Joint PD & MR, and the validation report, it is confirmed that the parameters need to be monitored are the electricity supplied to the grid and imported from grid. The monthly monitoring records of monitoring parameters of this project are crosschecked with technical reviewers of the company. The electricity records are confirmed with grid power company.

	Though checking the VCU monitoring report, it is confirmed that the result is listed clearly in the report and the report will be published in the VCS website. Through on-site interview with project proponent, it is confirmed that if any comments and suggestions from stakeholders are received, project proponent will record and the handling results will be notified to stakeholders via phone or other contact information left by the stakeholders.
Consultation records	Through on-site visit and interviews with stakeholders and checking the Grievance book as well as the validation report of Joint PD & MR, CCSC confirms that the project proponent has developed a mechanism to record the consultations. through on-site visit and interviews with stakeholders and checking the Grievance book, it is confirmed that there is no comments and suggestions received in this monitoring period.
Stakeholder input	Through on-site visits and interviews with stakeholders and checking the Local Stakeholder Consultation Records, CCSC confirms that the project has not received any complaints, comments or suggestions from stakeholders during the consultation.

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	By checking the validation report and interviewing with stakeholders, it is confirmed that the land occupied by this project is waste land, and all of them are government owned. The project owner has applied to Zhongwei Municipal Natural Resources Bureau before the project start and was approved by the Ningxia Autonomous Region Development and Reform Commission. Before the project start date, two local stakeholder consultation meetings were held respectively in Nov.2016 and Nov. 2017 to collect stakeholder's opinions on the environmental impacts and VCS application. Through the questionnaire survey, all the stakeholders have positive opinion and support this project.

The public participation was organized in Nov 2016, PP made medium bulletin in the local residential area near the location site and release bulletin survey of stakeholders in the residential area near the project construction site. The bulletin contents include general description of the proposed project, public participation load table and contact method. During the survey of stakeholders, 150 questionnaires were released, and 145 questionnaires were got back, the return ratio is 96.7%. In addition, 40 people is interviewed and consulted. The stakeholders' survey in Nov 2017 was conducted in Xiangshan County. 46 questionnaires were released, and all were got back.

The opinions expressed by the stakeholders were recorded and are available on request.

The survey showed that the proposed project receives strong support from the local community. PP disclosed to Stakeholders the nature, scale, speed, reversibility and scope of the proposed Project or activity; The reason or purpose of the Project and/or activity; Duration of Project activities; Affected locations; And a preliminary assessment of economic, social, cultural and environmental impacts, including potential risks and fair and equitable benefit sharing, respecting the precautionary principle. Such conclusion is also confirmed via on-site interview with local residents.

PP stated that it will actively listen to concerns and feedback from Stakeholders and address any questions or concerns raised. Through this process, PP were able to reach a transparent agreement with the community on the implementation of project activities.

In addition, as assessed above, by checking the questionnaires, it is confirmed that no negative comments were received.

It is verified that the Free Prior and Informed Consent is reasonable, and there is no ongoing or unresolved conflicts with local people. such conclusion is supported by the on-site interview with local stakeholders.

Outcome of FPIC discussion	The project site is waste land in absence of the project. No resident lived there before the project start date. Therefore, there is no relocation for local people. By stakeholders consultation, local stakeholders know that this project could not only provide clean energy to national grid, but also provide some long-term job opportunities, which is beneficial for national environment, economy and well-beings. And by some environment protection measures, the project could avoid negative environment impacts during the construction period. 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. According to Local Stakeholder Consultation Process that validated in the validation report and on-site interview, CCSC confirms that all stakeholders expressed full support for the project and all relevant arrangements are made with the free, prior and informed consent of Stakeholders.
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4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	In order to resolve complaints relating to the Project, the Project has established a complaint resolution process with stakeholders to ensure fair, transparent and timely processing. Through interviews with Project managers and via checking Grievance book /24/, CCSC confirmed that the steps PP has developed in collaboration with stakeholders to resolve grievances are fair and reasonable: (1) Registration and transfer. After registering the letters and visits of stakeholders, as well as the matters transferred and assigned by higher-level authorities, the department shall promptly forward them to relevant departments for processing. (2) Submit and file for approval. The department shall file and handle the matters assigned by the superior unit or company leader; For the

	matters raised by the stakeholders, if the department considers the matter important and needs to be reviewed and approved by the company's responsible person, it shall be submitted for approval in a timely manner, and according to the review opinions, it shall be transferred or filed to the relevant department for handling; If the petition department deems it necessary to file a case and assign it, it can also file and handle it on its own. (3) Urge and supervise. The petition department shall promptly urge and supervise the handling of the assigned petition matters; For major and difficult cases, personnel can be sent to the local area to coordinate and handle them. (4) Report. For the matters assigned by the superior unit, the handling unit must complete the process within the prescribed deadline and submit a report on the results to the handling unit; If it cannot be completed on time, explain the situation to the assigned unit. (5) Reply. After the handling department directly handles the matters raised by the stakeholders, they will provide a written response to the petitioner with the results of the handling. Re examination and review units shall carefully investigate and verify the accepted the matters, and handle them separately in accordance with relevant regulations. (6) Case closure and filing. After the review of the matters, the department promptly closes the case and organizes and archives the petition matters. Through checking the checking Grievance book, CCSC confirmed project proponent does not received any complaints during the monitoring period.
Grievance procedure redress	The company implements a system of handling, reviewing, and reviewing matters. For matters raised by relevant parties, if they do not agree with the handling opinions and request a review, the higher-level unit will review them. If they do not agree with the review opinions and request a review, the higher-level unit of the reviewing unit will review them.

4.2.5 Public Comments

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
Via checking project's page on the Verra Registry, CCSC confirms this project has not received any complaints or comments during or outside the public comment period.	/	/

4.2.6 Risks to Local Stakeholders and the Environment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Risks to stakeholder participation	No risk identified. Via checking the FSR, EIA and its approval, the project reduced the emission of SO₂, NO_x etc., and does not generate any risk to stakeholders, the stakeholders involved in the project are all support the project. CCSC confirms that the project has no impact on livelihoods of the local population and climate change.
Working conditions	No risk identified. By checking project monitoring manual and management procedure and on-site visit, CCSC confirms that 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.
Safety of women and girls	No risk identified. By interview the staff of the project and and review the “Women’s Rights Protection Law”, CCSC confirmed that in the design phase of the project, the safety of women was taken into account and corresponding preventive measures were taken. The project has established effective monitoring and reporting mechanisms, CCSC confirms that women can report any safety issues or acts of gender discrimination, ensuring that their voices are adequately

	addressed and protected. CCSC confirms that the above risk identification is reasonable.
Safety of minority and marginalized groups, including children	No risk identified. Through interviews with the project manager and staff regarding the recruitment policy of the project and “Employment Promotion Law of the People's Republic of China”, CCSC confirms that the project will provide fair and open job opportunities without discrimination against marginalized groups. Additionally, efforts will be made to provide social support and assistance for local marginalized groups. The project does not employ child labor. Therefore, the Project poses no risk to marginalized groups, including children.
Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials)	The Project clearly defines the risks of waste water, waste gas, noise and harmful substances in the environmental impact assessment document, and strictly implements the environmental pollution control measures proposed in the EIA Report during the implementation of the Project, thereby eliminating the risks of the Project in terms of the Project of waste water, solid waste gas, noise, air pollution and dust. CCSC confirms that the above risk identification is reasonable, the implementation of the above measures has effectively avoided the risk or mitigated the possible impact and all pollutants are properly disposed of, and the treatment results meet the standards.

4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination and sexual harassment	By interviewing with project manager and staff about issuance of recruitment information, CCSC confirms that the Project does not discriminate of any kind on the basis of sex, race, religion, sexual orientation, or any other ground. Respect the 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 Female Employees. By reviewing the complaint record, CCSC confirms that no sexual harassment complaint had been received during the monitoring period.
Management experience	The project is owned and operated by Ningxia Zhongwei Aluminum New Energy Co., Ltd. Ningxia Zhongwei Aluminum New Energy Co., Ltd is a professional company, with business scope in investing, designing,

	construction and operation of wind power plants, solar power plants, electricity sales, etc. The management team has 65 people, and all the operation employees have the expertise on wind power plant operation and electricity generation. All of them have at least four years' working experience in wind power plants. Via on-site interview with the project manager and staff, CCSC confirms that the management team have the relevant skills and expertise in the planning, implementation and supervision of Project, and is able to effectively manage and drive the implementation of Project.
Gender equity in labor and work	Through site visits CCSC confirms that the Project has male and female employees of different genders. It is verified by Pay Roll that there is no significant gender difference between female and male employees in terms of compensation, promotion opportunities and benefits. Through interviews with project employee representatives, CCSC confirms that employees believe that 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, CCSC confirms that the employment policy of the project complies with the relevant standards of the International "Constitution of the People's Republic of China", "Criminal Law of the People's Republic of China", "Labor Law" and "Protection Laws on the Juvenile" and does not involve any form of human trafficking, forced labor and child labor.

4.2.7.2 Human Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Human rights	By interviewing Project managers and staffs, CCSC confirms that Project activities comply with International Human Rights Law, And strictly abide by the relevant laws of China, 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.) to ensure the protection of stakeholders.

4.2.7.3 Indigenous Peoples and Cultural Heritage

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Preservation and protection of cultural heritage	Through site visits and interviews with local government staff as well as reviewing the EIA and EIA approval, CCSC confirms that there are no cultural heritage nor indigenous people to be protected in or around the project site.

4.2.7.4 Property Rights

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Disputes over rights to territories and resources	By checking the Approval of the project , CCSC confirms that the project got the approval from government about the land use, and the Project does not involve any possible conflict of rights between different stakeholders. CCSC confirms that the territorial and property rights identified in this Project are clear and reasonable.
Respect for property rights	The project is located in waste land, southwest of Zhongwei city. The project would not requisit local people's land and there are no property rights conflicts with local people. By checking the Approval of the project, CCSC confirms that the Project protects the territory, property and customary rights and interests of indigenous peoples through the signing of lease contracts.

4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Summary of the benefit sharing plan	As assessed above, through checking the Approval of the project and on-site investigation, CCSC confirmed that there are no disputes over rights to territories and resources, the land, the facility, and the project are all belong to the project proponent. Hence, this section is not relevant to the project.
Benefit sharing during the monitoring period	N/A

4.2.8 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	No risk identified. Via checking Approval of EIA report, and after on-site inspection and interviews with project manager and local residents, CCSC confirms that not risk identified on biodiversity and ecosystems
Soil degradation and soil erosion	No risk identified. The project is located in the southwest of Zhongwei city. This is wind power project. CCSC confirms that it would not cause soil degradation and soil erosion.
Water consumption and stress	No risk identified. CCSC confirms that the wind power project will not consume a lot of water. The daily water consumption for the employees is not an extra stress, in absence of this project, all the employees would also consume water. Therefore, there is no significant added water stress for local area.
Usage of fertilizers	No risk identified. CCSC confirms the project is a wind power project and does not use any fertilizers, there was not risk identified on usage of fertilizers.

4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	By checking the official websites of national and local environmental protection authorities, EIA report and approval and via interviewing with local residents, local officials, CCSC confirms that the Project is not in or near the habitat of rare, threatened or endangered animals

4.2.8.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
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N/A	Not applicable. No planting or introduction of species is involved in the Project implementation
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4.2.8.3 Ecosystem conversion

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

4.2.8.4 Ecosystem conversion

Item	Evidence gathering activities and evidence checked
Ecosystem conversion	Not applicable. The project is not an ARR, ALM, WRC or ACoGS project.

CL-3 is raised that:

There is insufficient demonstration of project safeguards in Section 2 of the MR.

CCSC has reviewed the updated monitoring report and confirmed that the sections from 2.1 to 2.4 are revised, and that sufficient descriptions have been supplemented. Thus, **CL-3** is closed.

4.3 Accuracy of Reduction and Removal Calculations

The monitoring has been carried out in accordance with the registered Joint PD & MR (version 2.0 dated 07/04/2019). CCSC confirms that all parameters stated in the monitoring plan are monitored and reported appropriately. All parameters required to be monitored by the monitoring plan as per the monitoring methodology ACM0002 (Version 19.0) and the management system were assessed during the site visit. The monitoring report lists each parameter required by the monitoring plan and the information flow (i.e. from data generation, aggregation, recording, calculation and reporting) for these parameters is provided. The information flow for the each parameter in further verified in the following sections.

CL-2 is raised that:

The calculation process and result of renewable electricity from the start date of project operation to the end date of this monitoring period are incorrect.

CCSC has reviewed the updated monitoring report and confirmed that the data has been modified. Thus, **CL-2** is closed.

Parameters monitored

According to registered Joint PD & MR (version 2.0 dated 07/04/2019), there is only one monitoring parameter of the project activity:

Quantity of net electricity generation supplied by the Project to the grid in year y ($EG_{\text{facility},y}$)

Electricity generated by this project is transmitted to 110kV on-site substation by 35kV transmission lines and then sent to the Ningxia power grid, which is part of the Northwest Power Grid (NWPGR). Finally the electricity is supplied to the Northeast Power Grid (NWPGR) of China.

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

$$EG_{\text{facility},y} = EG_{\text{export},y} - EG_{\text{import},y}$$

$EG_{\text{export},y}$ is electricity exported to the grid by the project;

$EG_{\text{import},y}$ is electricity imported to the project activity by the grid.

For $EG_{\text{export},y}$ and $EG_{\text{import},y}$ are sourced from Meter Reading Records issued by the project developer, and Electricity Transaction Notes (ETNs) issued by power grid company covering monitoring period.

- **$EG_{\text{export},y}$**

4 bidirectional electricity meters (2 main meters and 2 backup meters) installed on the transform substation was measured continuously, recorded monthly and archived electronically. At 24:00 hr of last day of each month, the staff from project developer and power grid company will record electricity meter's readings and form Monthly Reading Records. The staff from power grid company will then transcribes the data into Electricity Transaction Notes (ETNs).

- **$EG_{\text{import},y}$**

4 bidirectional electricity meters (2 main meters and 2 backup meters) installed on the transform substation was measured continuously, recorded monthly and archived electronically. At 24:00 hr of last day of each month, the staff from project developer and power grid company will record electricity meter's readings and form Monthly Reading Records (MRRs). The staff from power grid company will then transcribes the data into Electricity Transaction Notes (ETNs).

As described above, the meters have been installed in accordance with the MP of Joint PD & MR. CCSC has on-site checked the location of the meters against the diagram of power connection system and found them to be consistent.

Data in the monthly reading records were used to the report, through a cross check with ETNs, and the conservative values from electricity export and import were applied to calculate the net electricity supplied to the grid by the project. The data reported in the monitoring report and ERs calculation spreadsheet has been verified by the verification team. Supporting references and data required to determine the net electricity supplied to the grid by the project is found to be complete and transparent.

Monitoring equipment and calibration

The meters have been calibrated periodically as per the relevant industrial standard by the qualified third party to ensure the monitoring equipments' accuracy and in good conditions. The relevant information of meters' calibration is listed as below.

Meter No.	Type	Serial No.	Accuracy	Calibration Date	Valid Date
	DSSD8848	080002009870	0.2S	09/03/2022	08/03/2023

M522 (main meter)				03/03/2023	02/03/2024
				28/02/2024	27/02/2025
M533 (main meter)	DSSD8848	080002009822	0.2S	09/03/2022	08/03/2023
				03/03/2023	02/03/2024
				28/02/2024	27/02/2025
M523 (backup meter)	DSSD8848	080002009875	0.2S	09/03/2022	08/03/2023
				03/03/2023	02/03/2024
				28/02/2024	27/02/2025
M534 (backup meter)	DSSD8848	080002009872	0.2S	09/03/2022	08/03/2023
				03/03/2023	02/03/2024
				28/02/2024	27/02/2025

Calibration records and accreditation certificates have been verified by the verification team. In the registered Joint PD & MR, the accuracy of meters are 0.2S. By checking the industrial metering configuration standard “Technical Administrative Code of Electric Energy Metering (DL/T 448-2016)”, CCSC can confirm that the accuracy level of all meters meet the requirement stipulated in this standard. CCSC can thus confirm that the accuracy of the meters is in line with the monitoring plan of the registered Joint PD & MR and relevant industry standard.

In the registered Joint PD & MR, it stated that the meters will be calibrated and checked periodically for accuracy. By checking the calibration reports, CCSC found the calibration frequency of these meters is annual, which is in line with the calibrating standard “Technical Administrative Code of Electric Energy Metering (DL/T 448-2016)”. Hence, CCSC can confirm that the meters’ calibration frequency is in line with the monitoring plan of the registered Joint PD & MR and relevant industry standard, and the calibrations of meters are verified to be valid for the whole reporting period.

Data management and control

Ningxia Zhongwei Aluminum New Energy Co., Ltd is responsible for operation and routine maintenance of power plant under the project activity. The quality assurance and quality control procedures have been addressed in the monitoring manual, including the organization structure with the responsibilities, personnel competencies, monitoring procedures and monitoring management. By interview with the staff

and check records during on-site visit, it can be confirmed that the monitoring management system is implemented following the project management and monitoring manual.

All monitoring devices have been calibrated and maintained periodically to ensure the accuracy of measurement. Calibration records of instruments used in measurements were made available during the verification visit and found to be valid for the entire period of the verification. Competence and training records of in-plant personnel engaged in measurement of plant parameters were presented during verification and found to be in order.

Emission reduction calculation

CCSC confirms that appropriate methods and formulae for calculating baseline emissions, project emissions and leakage have been followed, and the assumptions, emission factors and default values that are applied in the calculation have been justified. According to the applied methodology, the emission reductions are determined as the difference between the baseline emissions, project emissions and leakage:

$$ER_y = BE_y - PE_y$$

✓ Baseline emissions

The baseline reductions are determined as multiplying Quantity of net electricity generation supplied by the Project to the grid ($EG_{\text{facility},y}$) by the validated ex-ante fixed grid emission factor ($EF_{\text{grid,CM},y}$):

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

• Grid emission factor ($EF_{\text{grid,CM},y}$)

EF is the grid emission factor of the which has been verified ex-ante in the validation stage in registered Joint PD & MR (version 2.0 dated 07/04/2019) as 0.7674 tCO₂/MWh.

• Quantity of net electricity generation supplied by the Project to the grid in year y ($EG_{\text{facility},y}$)

$EG_{\text{facility},y}$ is the quantity of net electricity generation supplied by the project plant/unit to the grid in year y, which is calculated by following formula:

$$EG_{\text{facility},y} = EG_{\text{export},y} - EG_{\text{import},y}$$

$EG_{\text{export},y}$ is electricity exported to the grid by the project which is determined by readings of main meter 522 and 533. $EG_{\text{import},y}$ is electricity imported to the project activity by the grid which is determined by the readings of main meter 522 and 533. Data in the ETNs were used to cross-checked with that in the Monthly Reading Records (MRRs). The most conservative values have been applied to calculate the electricity exported to and imported from the grid by the project.

Table 1. Monitoring data of $EG_{\text{export},y}$

Monitoring Period	Meter reading records (M522)	Meter reading records (M533)	Total in meter reading records	Total in ETNs	Electricity exported to the grid by the project ($EG_{\text{export},y}$)

	MWh	MWh	MWh	MWh	MWh
	A	B	C=A+B	D	E=Min(C,D)
01/09/2022-30/09/2022	37,621.276	38,882.284	76503.560	76,503.560	76,503.560
01/10/2022-31/10/2022	36,023.358	35,791.364	71814.722	71,814.722	71,814.722
01/11/2022-30/11/2022	36,493.380	35,896.574	72389.954	72,389.954	72,389.954
01/12/2022-31/12/2022	39,846.842	35,506.478	75353.320	75,353.320	75,353.320
01/01/2023-31/01/2023	37,137.828	36,321.110	73458.938	73,458.938	73,458.938
01/02/2023-28/02/2023	41,625.934	39,600.092	81226.026	81,226.026	81,226.026
01/03/2023-31/03/2023	41,016.388	38,764.054	79780.442	79,780.442	79,780.442
01/04/2023-30/04/2023	40,684.070	40,510.610	81194.680	81,194.680	81,194.680
01/05/2023-31/05/2023	39,728.430	39,323.578	79052.008	79,052.008	79,052.008
01/06/2023-30/06/2023	36,158.318	38,591.812	74750.130	74,750.130	74,750.130
01/07/2023-31/07/2023	41,893.082	39,911.970	81805.052	81,805.052	81,805.052
01/08/2023-31/08/2023	39,154.668	40,111.204	79265.872	79,265.872	79,265.872
01/09/2023-30/09/2023	34,843.732	42,544.838	77388.570	77,388.570	77,388.570
01/10/2023-31/10/2023	41,815.046	42,908.866	84723.912	84,723.912	84,723.912
01/11/2023-30/11/2023	41,768.216	40,005.994	81774.210	81,774.210	81,774.210
01/12/2023-31/12/2023	42,856.058	36,431.892	79287.950	79,287.950	79,287.950
01/01/2024-31/01/2024	41,160.518	42,167.790	83328.308	83,328.308	83,328.308
01/02/2024-29/02/2024	40,456.402	42,194.782	82651.184	82,651.184	82,651.184
01/03/2024-31/03/2024	42,441.126	43,033.620	85474.746	85,474.746	85,474.746
01/04/2024-30/04/2024	39,794.510	35,643.342	75437.852	75,437.852	75,437.852
01/05/2024-31/05/2024	39,163.852	41,649.216	80813.068	80,813.068	80,813.068
01/06/2024-30/06/2024	37,301.222	41,216.308	78517.530	78,517.530	78,517.530
01/07/2024-31/07/2024	43,390.340	42,879.060	86269.400	86,269.400	86,269.400
01/08/2024-31/08/2024	37,837.352	36,102.318	73939.670	73,939.670	73,939.670
Total in this monitoring period	950211.948	945989.156	1896201.104	1,896,201.104	1,896,201.104

Table 2. Monitoring data of $EG_{import,y}$

Monitoring Period	Meter reading records (M522)	Meter reading records (M533)	Total in meter reading records	Total in ETNs	Electricity imported to the grid by the project ($EG_{import,y}$)
	MWh	MWh	MWh	MWh	MWh
	F	G	H=F+G	I	J=max(H,I)
01/09/2022-30/09/2022	168.994	163.002	331.996	331.996	331.996
01/10/2022-31/10/2022	184.002	214.004	398.006	398.006	398.006
01/11/2022-30/11/2022	195.006	175.000	370.006	370.006	370.006
01/12/2022-31/12/2022	184.996	202.006	387.002	387.002	387.002
01/01/2023-31/01/2023	203.994	160.006	364.000	364.000	364.000
01/02/2023-28/02/2023	170.996	203.994	374.990	374.990	374.990
01/03/2023-31/03/2023	207.998	210.994	418.992	418.992	418.992
01/04/2023-30/04/2023	179.004	181.006	360.010	360.010	360.010
01/05/2023-31/05/2023	170.002	184.002	354.004	354.004	354.004
01/06/2023-30/06/2023	167.006	195.006	362.012	362.012	362.012
01/07/2023-31/07/2023	189.994	151.004	340.998	340.998	340.998
01/08/2023-31/08/2023	161.000	151.004	312.004	312.004	312.004
01/09/2023-30/09/2023	153.006	214.998	368.004	368.004	368.004
01/10/2023-31/10/2023	191.002	200.998	392.000	392.000	392.000
01/11/2023-30/11/2023	212.002	177.996	389.998	389.998	389.998
01/12/2023-31/12/2023	146.006	168.000	314.006	314.006	314.006
01/01/2024-31/01/2024	144.004	205.996	350.000	350.000	350.000
01/02/2024-29/02/2024	168.000	221.998	389.998	389.998	389.998
01/03/2024-31/03/2024	210.994	170.002	380.996	380.996	380.996
01/04/2024-30/04/2024	195.006	210.000	405.006	405.006	405.006
01/05/2024-31/05/2024	154.994	217.994	372.988	372.988	372.988

01/06/2024-30/06/2024	144.004	168.994	312.998	312.998	312.998
01/07/2024-31/07/2024	202.006	203.000	405.006	405.006	405.006
01/08/2024-31/08/2024	207.004	221.004	428.008	428.008	428.008
Total in this monitoring period	4,311.020	4,572.008	8,883.028	8,883.028	8,883.028

Table 3. Calculation of BE_y

Monitoring Period	Electricity exported to the grid by the project (EG _{export,y})	Electricity imported from the grid (EG _{import,y})	Net electricity supplied to the grid (EG _{facility,y})	EF _{grid,CM,y}	Baseline emission (BE _y)
	E	J	K=E-J	L	M=L*K
	MWh	MWh	MWh	tCO ₂ /MWh	tCO _{2e}
01/09/2022-30/09/2022	76,503.560	331.996	76,171.564	0.7674	58,454
01/10/2022-31/10/2022	71,814.722	398.006	71,416.716	0.7674	54,805
01/11/2022-30/11/2022	72,389.954	370.006	72,019.948	0.7674	55,268
01/12/2022-31/12/2022	75,353.320	387.002	74,966.318	0.7674	57,529
Total in 2022	296,061.556	1,487.010	294,574.546		226,056
01/01/2023-31/01/2023	73,458.938	364.000	73,094.938	0.7674	56,093
01/02/2023-28/02/2023	81,226.026	374.990	80,851.036	0.7674	62,045
01/03/2023-31/03/2023	79,780.442	418.992	79,361.450	0.7674	60,901
01/04/2023-30/04/2023	81,194.680	360.010	80,834.670	0.7674	62,032
01/05/2023-31/05/2023	79,052.008	354.004	78,698.004	0.7674	60,392
01/06/2023-30/06/2023	74,750.130	362.012	74,388.118	0.7674	57,085
01/07/2023-31/07/2023	81,805.052	340.998	81,464.054	0.7674	62,515
01/08/2023-31/08/2023	79,265.872	312.004	78,953.868	0.7674	60,589
01/09/2023-30/09/2023	77,388.570	368.004	77,020.566	0.7674	59,105
01/10/2023-31/10/2023	84,723.912	392.000	84,331.912	0.7674	64,716
01/11/2023-30/11/2023	81,774.210	389.998	81,384.212	0.7674	62,454

01/12/2023-31/12/2023	79,287.950	314.006	78,973.944	0.7674	60,604
Total in 2023	953,707.79 0	4,351.018	949,356.77 2		728,531
01/01/2024-31/01/2024	83,328.308	350.000	82,978.308	0.7674	63,677
01/02/2024-29/02/2024	82,651.184	389.998	82,261.186	0.7674	63,127
01/03/2024-31/03/2024	85,474.746	380.996	85,093.750	0.7674	65,300
01/04/2024-30/04/2024	75,437.852	405.006	75,032.846	0.7674	57,580
01/05/2024-31/05/2024	80,813.068	372.988	80,440.080	0.7674	61,729
01/06/2024-30/06/2024	78,517.530	312.998	78,204.532	0.7674	60,014
01/07/2024-31/07/2024	86,269.400	405.006	85,864.394	0.7674	65,892
01/08/2024-31/08/2024	73,939.670	428.008	73,511.662	0.7674	56,412
Total in 2024	646,431.75 8	3,045.000	643,386.75 8		493,731
Total in this monitoring period	1,896,201.1 04	8,883.028	1,887,318.0 76		1,448,318

Hence, the quantity of the net electricity supplied to the grid from the project EG during the monitoring period was calculated conservatively as:

$$EG_{\text{facility},y} = EG_{\text{export},y} - EG_{\text{import},y} = 1,896,201.104 - 8,883.028 = 1,887,318.076 \text{ MWh}$$

And the corresponding baseline emission reductions are calculated as:

$$BE_y = EG_{\text{facility},y} \times EF_{\text{grid,CM},y} = 1,887,318.076 \times 0.7674 = 1,448,318 \text{ tCO}_2\text{e}$$

✓ Project emissions

As statement in the registered PD & MR, for the wind power activities, the project emissions from the project are not considered. Hence, PE

_y
during the monitoring period from Ningxia Xiangshan Wind Farm
Project is considered as zero.

✓ Leakages

Leakage does not need to be accounted for this project as per the registered PD & MR.

✓ Emission reductions

The emission reductions for this monitoring period was calculated as:

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCU's (tCO ₂ e)	Removal VCU's (tCO ₂ e)	Total VCU's (tCO ₂ e)
01/09/2022-31/12/2022	226,056	0.000	0.000	226056	/	226,056
01/01/2023-31/12/2023	728,531	0.000	0.000	728,531	/	728,531
01/01/2024-31/08/2024	493,731	0.000	0.000	493,731	/	493,731
Total	1,448,318	0.000	0.000	1,448,318	/	1,448,318

4.4 Quality of Evidence to Determine GHG Emission Reductions and Removals

The assessment of each parameter related to calculate the GHG emission reductions is justified in Sections 4.1 and 4.4 above. Via the on-site inspection and desk review, the verification team verified the supporting evidence provided by the project proponent as listed in Appendix B used to determine the GHG emission reductions

For each reported data, the evidence is provided and verified as sufficient and quality is appropriate. Also, the cross-checks have been performed on the reported data with different source of evidence. The information flow from data generation and aggregation, to recording, calculation and final transposition into the monitoring report has been assessed by VVB in Section 4.4. Moreover, the calibration is verified as stated in Section 4.1 via on-site inspection with evidences to confirm the meters' location, accuracy and calibration frequency are in line with requirement of the monitoring plan.

Therefore, it is concluded that the evidence provided are verified as sufficient and quality is appropriate and thus the evidence can be used to determine the GHG emission reductions and removals for this monitoring period.

4.5 Non-Permanence Risk Analysis

The project is not AFOLU project, and thus non-permanence risk analysis is not applicable for the project.

5 VERIFICATION OPINION

5.1 Verification Summary

China Classification Society Certification Co., Ltd (CCSC) has performed the verification of Ningxia Xiangshan Wind Farm Project covering the monitoring period from 01/09/2022–31/08/2024 within the 1st 10-year crediting period from 15/04/2017 to 14/04/2027, on the basis of requirements set out in VCS Version 4.7

The review of the project documentation and the subsequent follow-up site visits and interviews have provided CCSC sufficient evidence to determine that the project conforms with the verification criteria for projects and their GHG emission reductions or removals set out in VCS Version 4.7 and has been implemented in accordance with the registered PD & MR (version 2.0 dated 07/04/2019).

In the course of the verification, Three Clarification Request (CLs), Zero Corrective Action Request (CARs) and Zero Forward Action Request (FAR) were raised for the project activity in relation to all relevant VCS requirements. Before the issuance of this version of report, the raised CLs and CARs were successfully closed.

The verification is based on the baseline and monitoring methodology ACM0002 (Version 19.0), the registered PD & MR (version 2.0 dated 07/04/2019) and the monitoring report (version 03 dated 27/12/2024). The verification consisted of the following three phases: i) desk review of the project design and the baseline and monitoring plan; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification and certification report.

The project proponents are responsible for the collection, calculation and determination of the GHG data in accordance with the monitoring plan and the reporting of GHG emission reductions on the basis set out within the project monitoring report.

Our verification approach was based on the requirements as defined under the applicable VCS Version 4 and relevant UNFCCC requirements. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. The verification can confirm that:

- the project is implemented and operated as per the registered joint PD & MR;
- the monitoring plan in registered joint PD & MR is as per the applied methodology;
- the monitoring complies with the monitoring plan in the registered joint PD & MR;
- the monitoring report and other supporting documents provided are complete and verifiable and in accordance with the applicable VCS Version 4 and CDM requirements;
- the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;
- the monitoring system is in place and generates GHG emission reductions data;
- the GHG emission reductions are calculated without material misstatements.

5.2 Verification Conclusion

It is CCSC's responsibility to provide an independent verification statement on the reported GHG emission reductions for the project. Based on an understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these, CCSC planned and performed our work to obtain the information and explanations that we considered necessary to provide reasonable assurance that reported GHG emission reductions are fairly stated.

CCSC does not assume any responsibility towards the issuance and utilization of the VCUs hereby verified and certified. Request for issuance of VCUs shall be made by the project proponent to an approved VCS Program Registry based on the requirements set out under the most recent version of the VCS Program Guidelines clause on VCS Registration.

The verification of reported emission reductions is based on the information made available to CCSC and the engagement conditions detailed in this report. CCSC cannot be held liable by any party for decisions made or not made based on this report.

In conclusion, it is CCSC's opinion that the project "Ningxia Xiangshan Wind Farm Project", in the Monitoring Report meets all relevant requirements for VCS activities and all relevant host Party criteria and in conformity with the registered PD & MR (version 2.0 dated 07/04/2019). CCSC confirms the following statement:

Verification period: From 01/09/2022 to 31/08/2024

Verified GHG emission reductions and removals in the above verification period, broken down by calendar year:

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCUs (tCO ₂ e)	Removal VCUs (tCO ₂ e)	Total VCUs (tCO ₂ e)
01/09/2022-31/12/2022	226,056	0.000	0.000	226,056	/	226,056
01/01/2023-31/12/2023	728,531	0.000	0.000	728,531	/	728,531
01/01/2024-31/08/2024	493,731	0.000	0.000	493,731	/	493,731
Total	1,448,318	0.000	0.000	1,448,318	/	1,448,318

5.3 Ex-ante vs Ex-post ERR Comparison

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
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01/09/2022 to 31/12/2022	243,325	226,056	-7.37%	According to the review conducted by the verification team, by consulting the "2022 Annual Bulletin of Wind and Solar Energy Resources in China" published by the Wind and Solar Energy Center of the China Meteorological Administration, compared with the past decade, Ningxia has experienced a lower annual average wind speed and a smaller average wind power density, resulting in the actual power generation of the project being less than the estimated value.
01/01/2023-31/12/2023	727,982	728,531	0.08%	According to the review conducted by the verification team, by consulting the "2023 Annual Bulletin of Wind and Solar Energy Resources in China" published by the Wind and Solar Energy Center of the China Meteorological Administration, compared with the past decade, Ningxia's annual average wind speed and average wind power density were close to normal, resulting in a minimal difference between the actual power generation of the project and the estimated value.
01/01/2024-31/08/2024	486,650	493,731	1.46%	Due to the fact that the data on wind resource variations for the entire year of 2024 has not yet been released, and wind resources vary significantly by season, it is normal for there to be a minimal difference between the actual power generation and the estimated value from January to August 2024.
Total	1,457,958	1,448,318	-0.66%	After reviewing the "2022 Annual Bulletin of Wind and Solar Energy Resources in China" and the "2023 Annual Bulletin of Wind and Solar Energy Resources in China" published by the Wind and Solar Energy Center of the China Meteorological Administration, the verification team believes that the difference between the actual power generation and the estimated value during the monitoring period is related to the variations in the annual average wind speed and average wind power

				density, and it is normal for this difference to be minimal.
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APPENDIX A: ABBREVIATIONS

<i>Abbreviations</i>	<i>Full texts</i>
<i>BM</i>	Build Margin
<i>CAR</i>	Corrective Action Request
<i>CCSC</i>	China Classification Society Certification Co. Ltd.
<i>CCER</i>	China Certified Emission Rrductions
<i>CDM</i>	Clean Development Mechanism
<i>CL</i>	Clarification Request
<i>CM</i>	Combined Margin
<i>CO₂</i>	Carbon dioxide
<i>CO₂e</i>	Carbon dioxide equivalent
<i>DNA</i>	Designated National Authority
<i>CDM-EB</i>	CDM Executive Board
<i>EF</i>	Emission Factor
<i>EIA</i>	Environmental Impact Assessment
<i>ETN</i>	Electronic Transaction Notes
<i>FAR</i>	Forward Action Request
<i>GHG(s)</i>	Greenhouse gas(es)
<i>IPCC</i>	Intergovernmental Panel on Climate Change
<i>MEE</i>	Ministry of Ecology and Environment of the People's Republic of China
<i>MP</i>	Monitoring Plan
<i>CCPG</i>	Central China Power Grid
<i>OM</i>	Operating Margin
<i>PD</i>	Project Description
<i>PP</i>	Project Proponent

<i>PPA</i>	Power Purchase Agreement
<i>PRC</i>	post-registration change
<i>UNFCCC</i>	United Nations Framework Convention on Climate Change
<i>VCS</i>	Verified Carbon Standard
<i>VCU</i>	Voluntary Carbon Unit
<i>VVB</i>	Validation / Verification Body

APPENDIX B: DOCUMENTS REVIEWED OR REFERENCED

1	Joint Project Description Monitoring Report for Ningxia Xiangshan Wind Farm Project version 2.0
2	Validation and Verification Report for Ningxia Xiangshan Wind Farm Project version 01.1
3	Monitoring Report for Ningxia Xiangshan Wind Farm Project, version 01 dated 19/09/2024, version 03 dated 27/12/2024
4	Emission reduction calculation spreadsheet for Ningxia Xiangshan Wind Farm Project, version 01 dated 30/10/2024
5	Monitoring manual
6	Operation log
7	Trainings records
8	Electricity meter record
9	Certificate of Metrological Authorization for Special Items
10	Electric meter calibration certificate
11	Monthly electricity transaction notes
12	No double counting statement
13	Diagram of power connection system
14	Grid-connected scheduling protocol
15	UNFCCC, http://cdm.unfccc.int
16	Gold Standard, http://www.goldstandard.org/
17	Verified Carbon Standard VCS, https://registry.verra.org/app/search/VCS
18	Measures for the Administration of Carbon Emission Trading, issued by Ministry of Ecology and Environment of China, dated 31/12/2020
19	Enforced company list in China cap & trade scheme, issued by Ministry of Ecology and Environment of China
20	<i>Law of the People's Republic of China on Promotion of Employment Order of the President of the People's Republic of China</i>

21	Action Plan for Carbon Dioxide Peaking Before 2030 published by the State Council
22	Responding to Climate Change: China's Policies and Actions released by the State Council
23	Verified Carbon Standard: VCS Standard, Version 4.7
24	Verified Carbon Standard: VCS Program Guide, version 4.4
25	Verified Carbon Standard: VCS Sectoral Scopes https://verra.org/programs/verified-carbon-standard/vcs-program-details/#sectoral-scopes
26	Verified Carbon Standard: Registration and Issuance Process, version 4.6

APPENDIX C: RESOLUTION OF CLARIFICATION REQUESTS AND CORRECTIVE ACTION REQUESTS AND FORWARD ACTION REQUESTS

Table 1. CL from this validation and verification

CL ID	CL-1	Section no.	2.2	Date:15/10/2024
Description of CL				
PP is required to supplement the following documents:				
1. Operation log				
2. Monitoring manual				
3. Records of training for on-site staff,				
4. grid-connected scheduling protocol				
Project proponent response				Date: 30/10/2024
These documents are provided				
Documentation provided by Project proponent				
1. Operation log				
2. Monitoring manual				
3. Records of training for on-site staff,				
4. grid-connected scheduling protocol				
VVB assessment				Date: 05/11/2024
All the documents provided by the PP have been received and confirmed by CCSC. Thus, CL-1 is closed.				
CL ID	CL-2	Section no.	4.1	Date:15/10/2024
Description of CL				

The calculation process and result of renewable electricity from the start date of project operation to the end date of this monitoring period are incorrect.

Project proponent response

Date: 30/10/2024

The data are revised in the updated MR

Documentation provided by project proponent

MR_Ningxia Xiangshan Wind_VCS1867

VVB assessment

Date: 05/11/2024

CCSC has reviewed the updated monitoring report and confirmed that the data has been modified. Thus, **CL-2** is closed.

CL ID	CL-3	Section no.	4.2	Date:15/10/2024
Description of CL				
There is insufficient demonstration of project safeguards in Section 2 of the MR. 1. Section 2.1: a) The social, economic, and cultural diversity within stakeholder groups, the differences and interactions between the stakeholder groups, and any changes in the make-up of each group over time are not sufficiently described. b) The expected changes in well-being and other stakeholder characteristics under the baseline scenario, including changes to ecosystem services identified as important to stakeholders are not sufficiently described. c) There is an insufficient description of how consent was obtained from those concerned, including IPs, LCs, and customary rights holders, and a transparent agreement is reached. Describe any ongoing or unresolved conflicts and demonstrate that the project does not exacerbate nor influence the outcomes of unresolved conflicts. d) There is an insufficient description of the outcome of the FPIC process, the transparent agreement, and the information disclosed prior to establishing a transparent agreement with those concerned, IPs, LCs, and customary rights holders. Provide assurance that the project has not encroached on land, relocated people without consent, and forced physical or economic displacement. 2. Section 2.2: a) The risk of working conditions have not been described. b) Where no risk was identified, PP should provide justification in the second column for Mitigation or preventative measure(s) taken. 3. Section 2.3:				

There is an insufficient description of the how the project continues to recognize, respect, and promote the protection of the rights of IPs, LCs, and customary rights holders in line with applicable international human rights law, and the United Nations Declaration on the Rights of Indigenous Peoples and ILO Convention 169 on Indigenous and Tribal Peoples.

4. Section 2.4:

Where no risk was identified, PP should provide justification in the second column for Mitigation or preventative measure(s) taken during the monitoring period.

Project proponent response	Date: 30/10/2024
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The sections from 2.1 to 2.4 are revised and further demonstrated accordingly as per the comments given by VVB.

Documentation provided by project proponent

MR_Ningxia Xiangshan Wind_VCS1867

VVB assessment	Date: 05/11/2024
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CCSC has reviewed the updated monitoring report and confirmed that the sections from 2.1 to 2.4 are revised, and that sufficient descriptions have been supplemented. Thus, **CL-3** is closed.

Table 2. CAR from this validation and verification

CAR ID	/	Section no.	/	Date: /
Description of CAR				
Project proponent response				Date:
Documentation provided by Project proponent				
VVB assessment				Date:

Table 3. FAR from this validation and verification

FAR ID	FAR-1	Section no.		Date:
Description of FAR				
/				
Project proponent response				Date:
Documentation provided by project proponent				
VWB assessment				Date: