

INNER MONGOLIA WUJIER PHASE I WIND POWER PROJECT



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Summary:

LGAI Technological Center, S.A. (hereafter referred to as “Applus+ Certification”) has been commissioned by Beijing Ruifang Information Technology Co., Ltd to perform a gap validation of registered CDM project activity “Inner Mongolia Wujier Phase I Wind Power Project” (UNFCCC Ref. No. 3387, hereafter referred to as “the project activity”) reported in the Project Description.

The project activity has been validated by KFQ based on the CDM PDD version 3.0 dated 08/01/2010 and reported in the validation report No. 2009-18, version 01.4, completed on 09/02/2010. The project activity was registered as a CDM project activity on 04/07/2010 which is available at <https://cdm.unfccc.int/Projects/DB/KFQ1265789122.23/view>. Then a PRC was performed by BV based on CDM PDD version 4.0 dated 19/03/2013 and reported in the validation report No. CHINA-PRC/8731/2012, version 01, dated 20/03/2013.

The project activity is a wind power project located at Ordos city, Inner Mongolia, People’s Republic of China which is to use wind resource for electricity generation. The installed capacity of the project activity is 49.5 MW, consisting of 33 wind turbines with unit capacity of 3 MW. The average annual power delivered to the grid by the project is expected to be 126,821 MWh. The Project can reduce GHG emissions by replacing the electricity generated by fossil fuel fired power plants North China Power Grid (NCPG). It’s estimated that the proposed project could achieve GHG emission reductions of 120,508 tCO₂e annually.

The purpose and scope of this validation is to ensure that reported information in the Project Description is complete and accurate in accordance with applicable VCS standards and relevant UNFCCC requirements. A desk review and a site visit have been conducted to verify the data submitted in the Project Description. Applus+ Certification confirms the following has been reviewed:

- Project Description, version 1.0, dated 12/07/2019;
- CDM PDD version 3.0 dated 08/01/2010;
- CDM PDD version 4.0 dated 19/03/2013;
- Validation report No. 2009-18, version 01.4, completed on 09/02/2010;
- Validation report No. CHINA-PRC/8731/2012, version 01, completed on 20/03/2013;
- Approved methodology, ACM0002, version 10.0, dated 11/06/2009;
- VCS standards and guidance version 3.7, as well as relevant UNFCCC requirements;
- All information and references relevant to the project activity’s description.

During this validation, no finding was identified related to the implementation or operations of the project activity in relation to relevant VCS standards, guidance and UNFCCC requirements and relevant host party criteria and the applied baseline and monitoring methodology etc.

Applus+ Certification confirms that:

- The projects description compliance with, the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by

COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS guideline and standard version 3.7

- The project's baseline and additionality is assessed against "ACM0002 version 10.0 for CDM large scale project
- The project's monitoring plan is assessed against "ACM0002 version 10.0 for CDM large scale project
- A risk-based approach has been followed to perform this validation activity. The review of the project description and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews with Project Owner have provided LGAI Technological Center S.A. (Applus+ Certification) with sufficient evidence for positive validation opinion as per the requirement of VCS.

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1 INTRODUCTION

1.1 Objective

LGAI Technological Center, S.A. has been commissioned by Beijing Ruifang Information Technology Co., Ltd to perform a gap validation of registered CDM project activity “Inner Mongolia Wujier Phase I Wind Power Project” (UNFCCC Ref. No. 3387, hereafter referred to as “the project activity”) reported in the Project Description.

LGAI Technological Center, S.A. as the validation body of the project activity has been accredited as a DOE by UNFCCC and also meets the competence requirements as set out in ISO 14065:2007.

The objective of this validation is to ensure that reported information in the Project Description of “Inner Mongolia Wujier Phase I Wind Power Project” is complete and accurate in accordance with applicable VCS standards and relevant UNFCCC requirements.

1.2 Scope and Criteria

The validation scope is defined as an independent and objective review of the project design document (PDD). The PDD is reviewed against the criteria stated in Article 12 of the Kyoto Protocol, the CDM modalities and procedures as agreed in the Marrakech Accords and the relevant decisions by the CDM Executive Board, including the approved baseline and monitoring methodology ACM0002 version 10.0. The validation was based on the requirements in the CDM Validation and Verification standard for project activities version 02.0 and VCS guideline and standard version 3.7.

The validation is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the project design.

1.3 Level of Assurance

The validation report is based on the CDM-PDD, VCS-PD, supporting evidences made available to the validator and information collected through performing interviews and during the on-site assessment.

The validation conclusion is assured a reasonable level of assurance.

1.4 Summary Description of the Project

Project title	Inner Mongolia Wujier Phase I Wind Power Project
UNFCCC reference number	3387
Project Participants	Inner Mongolia Xinjin Wind Power Co., Ltd. (Project Owner, host country, P. R. China)
Location of the project	Ordos city, Inner Mongolia, People's Republic of China Geographic coordinates: East longitude: 107°21'39" North latitude: 40°11'40"
Project start date	Construction start date: 29/05/2009 Operation start date: 16/09/2010
Date of registration as CDM project	04/07/2010
Version of registered CDM PDD	Version 3.0, dated 08/01/2010
Applied Methodology/Version	ACM0002, version 10.0, dated 11/06/2009
Scope/Technical Area	1/1.2

The project activity is a wind power project located at Ordos city, Inner Mongolia, People's Republic of China which is to use wind resource for electricity generation. The installed capacity of the project activity is 49.5 MW, consisting of 33 wind turbines with unit capacity of 1.5 MW. The average annual power delivered to the grid by the project is expected to be 126,821 MWh. The Project can reduce GHG emissions by replacing the electricity generated by fossil fuel fired power plants North China Power Grid (NCPG). It's estimated that the proposed project could achieve GHG emission reductions of 120,508 tCO₂e annually.

The project activity has been validated by KFQ based on the CDM PDD version 3.0 dated 08/01/2010 and reported in the validation report No. 2009-18, version 01.4, completed on 09/02/2010. The project activity was registered as a CDM project activity on 04/07/2010 which is available at <https://cdm.unfccc.int/Projects/DB/KFQ1265789122.23/view>. Then a PRC was performed by BV based on CDM PDD version 4.0 dated 19/03/2013 and reported in the validation report No. CHINA-PRC/8731/2012, version 01, dated 20/03/2013.

2 VALIDATION PROCESS

2.1 Method and Criteria

Validation was conducted using Applus+ Certification's procedures in line with the requirements specified in the VCS Standard version 3, CDM M&P, the latest version of the CDM Validation and Verification Standard, and relevant UNFCCC requirements and applying standard auditing techniques. No sampling was utilized during the site visit as well as validation for project activity.

Applus+ Certification completed a strategic review and risk assessment of the projects activities and processes in order to gain a full understanding of (if applicable):

- Project Details;
- Application of Methodology;
- Estimated GHG Emission Reduction and Removals;
- Monitoring;
- Safeguards etc.

Applus+ Certification validate that the reported information in the Project Description are complete and accurate in question. This involved a site visit and a desk review of the Project Design. This Validation Report describes the findings of this assessment.

The information of the assessment team is included in below of this report.

Assessment team

According to the sectoral scopes / technical area and experiences in the sectoral or national business environment, Applus+ Certification has composed a project assessment team in accordance with the appointment rules in Applus+ Certification. The composition of assessment team has to be approved by the Applus+ Certification ensuring that the required skills are covered by the team. The four qualification levels for team members that are assigned by formal appointment rules as below:

- Leader Auditor (LA)
- Auditor (A)/ Auditor Trainee (AT)
- Technical Reviewer (TR)
- Technical Experts (TE)

Name	Qualification	Coverage of scope	Coverage of Technical Area	Host country experience
<i>Denny Xue</i>	<i>LA/TE</i>	<i>Y (1.2)</i>	<i>Y</i>	<i>Y</i>
<i>Simon Shen</i>	<i>TR</i>	<i>Y (1.2)</i>	<i>Y</i>	<i>Y</i>

Denny Xue (Master's Degree in Environmental Engineering, Bachelor's Degree in Thermal Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+. Before he joined Applus+ LGAI, he has been working for Shanghai Chuanji Investment and Management which is a CDM consultancy company as a project manager for CDM project development.

Simon Shen (Master's Degree in Thermal Energy Engineering, Bachelor's Degree in Environmental Engineering) is an Auditor appointed by Applus+ LGAI for the GHG project assessment, auditing and technical review. He has more than 6 years of work experience in CDM/GS4GG/VCS project assessment and review with Applus+, apart from the years of experience working as GHG Auditor and ISO 9001/14001 in TUV SUD before he joined Applus+ for 3.5 years. Mr. Simon Shen has extensive experience also as former Applus+ Shanghai CDM Technical Manager.

2.2 Document Review

The VCS project design version 1.0 dated 12/07/2019, version 2.0 dated 26/07/2019 were assessed as part of the validation. In addition, the registered CDM PDD version 3.0 dated 08/01/2010 and the registered CDM validation report version 01.4 dated 09/02/2010, revised CDM PDD version 4.0 dated 19/03/2013 and the validation report version 01 dated 20/03/2013 as well as relevant documents, were reviewed. A detailed documents reviewed are listed in Annex 1 of the report.

2.3 Interviews

The key personnel interviewed are summarized in the table below:

Interviewed personnel	Role	Organization	Subject
Mr. Li Wei	Chief	Inner Mongolia Xinjin Wind Power Co., Ltd.	Project design and operation of the project activity;
Ms. Liu Ting	Operator	Inner Mongolia Xinjin Wind Power Co., Ltd.	Baseline scenario of the project activity; Monitor plan for the project activity; Data collection and ER calculation

2.4 Site Inspections

The assessment team performed the on-site validation (Ordos city, Inner Mongolia, People's Republic of China) on 25-26/07/2019. The interviewed personnel and objective are listed in above table.

2.5 Resolution of Findings

As an outcome of the validation process, the team can raise different types of findings.

Where a non-conformance arises the assessment team shall raise a Corrective Action Request (CAR). A CAR is issued, where reported information is not in line with the applicable CDM/VCS requirements.

The assessment team shall raise a Clarification Request (CL) if information is insufficient or not clear enough to determine whether the applicable CDM/VCS requirements have been met.

All CARs and CLs raised during validation shall be resolved prior to submitting a request for registration.

There are no CARs and CLs raised for the project.

2.5.1 Forward Action Requests

As this is the gap validation for the project, there are no FARs involved in the validation process.

3 VALIDATION FINDINGS

3.1 Project Details

The following description of the project as per PD was verified during the on-site visit:

The project activity is a wind power project located at Ordos city, Inner Mongolia, People's Republic of China which is to use wind resource for electricity generation. The installed capacity of the project activity is 49.5 MW, consisting of 33 wind turbines with unit capacity of 1.5 MW. The average annual power delivered to the grid by the project is expected to be 126,821 MWh. The Project can reduce GHG emissions by replacing the electricity generated by fossil fuel fired power plants North China Power Grid (NCPG). It's estimated that the proposed project could achieve GHG emission reductions of 120,508 tCO₂e annually.

The project activity was invested and operated by Inner Mongolia Xinjin Wind Power Co., Ltd. which is the project proponent of project by checking the business license of the project.

By checking the registered and revised CDM PDD and site visit interview with project owner, it is confirmed that the project started operation on 16/09/2010 which is the project start date according to the requirement of VCS. However, the start date of the crediting period of the project would be the same as CDM which started from 04/07/2010 to 03/07/2020 last for 10 years in line with the requirement of VCS.

As the installed capacity of the project is 49.5 MW which falls under large scale project according to the requirement of CDM. However due the annually estimated emission reductions are less than 300,000 tCO₂, the project falls under project under VCS standard.

The project is located at Ordos city, Inner Mongolia, People's Republic of China. The geographic coordinate is east longitude of 107°21'39" and north latitude of 40°11'40" verified by the site visit.

Before the implementation of the project activity, the electricity generated by the project would be supplied by NCPG in the baseline scenario.

By checking laws and regulation, it is confirmed that the project activity is in complicate with all laws and regulations in China.

By checking information on the Internet, it is confirmed that the project activity has been validated by KFQ based on the CDM PDD version 3.0 dated 08/01/2010 and reported in the validation report No. 2009-18, version 01.4, completed on 09/02/2010. The project activity was registered as a CDM project activity on 04/07/2010 which is available at <https://cdm.unfccc.int/Projects/DB/KFQ1265789122.23/view>. By checking statement issued by the project proponent, it is confirmed that in this crediting period, the project would either been issued under CDM or VCS.

The project does not participate in the other emissions trading program by checking public information on Internet and interviewing with project owner. Of course, no rejection from other GHG programs.

As the project is not a grouped project, the eligibility criteria for grouped project is not applicable; No leakage management as not an AFOLU project; No commercially sensitive information confirmed through site visit.

The project activity would contribute sustainable development in the region in following aspects confirmed by site visit:

(1) Increases employment opportunities in the area where it is located - approximately 15 people¹ will be permanently employed for Project operation, and Project construction secures jobs in the construction sector. The Project therefore contributes to developing local infrastructure and increasing the life level of local resident;

(2) Enhances the local investment environment, and therefore improves the local economy;

(3) Diversifies the sources of electricity generation. This is important for meeting growing energy demands, and transitioning away from coal-supplied electricity generation;

(4) Makes use of renewable wind power resources.

3.2 Application of Methodology

3.2.1 Title and Reference

According to the requirement of VCS standard, for projects registered under the CDM, the cover page and sections 1.1, 1.2, 1.3, 1.5, 1.6, 1.7, 1.9, 1.10, 1.12.1, 1.12.2, 1.12.3, 1.12.4, 1.13 and 2.6 of the VCS Project Description Template shall be completed. A validation/verification body shall undertake a validation of same, which shall be accompanied by a validation representation, to provide a gap validation for the project's compliance with the VCS rules.

Therefore, this part is not applicable. The project would use the same methodology and tools indicated in the registered CDM PDD. The same for below part when applicable.

3.2.2 Applicability

Not applicable.

3.2.3 Project Boundary

Not applicable.

3.2.4 Baseline Scenario

Not applicable.

3.2.5 Additionality

Not applicable.

3.2.6 Quantification of GHG Emission Reductions and Removals

Not applicable.

3.2.7 Methodology Deviations

No methodology deviation was requested.

3.2.8 Monitoring Plan

Not applicable.

3.3 Non-Permanence Risk Analysis

Not applicable.

4 SAFEGUARDS

4.1 No Net Harm

Not applicable.

4.2 Environmental Impact

Not applicable.

4.3 Local Stakeholder Consultation

Not applicable.

4.4 Public Comments

Not applicable.

5 VALIDATION CONCLUSION

Applus+ Certification has been engaged by Beijing Ruifang Information Technology Co., Ltd to perform a gap validation of registered CDM project activity “Inner Mongolia Wujier Phase I Wind Power Project”

Our Validation approach was based on the requirements as defined under the Kyoto Protocol, Marrakesh accord, as well as those defined by the CDM Executive Board and VCS board. Our approach is risk-based, drawing on an understanding of the risks associated with estimated GHG emissions data and the controls in place to mitigate these. The validation can confirm that:

- The projects description compliance with, the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country legislation and sustainability criteria along with VCS guideline and standard version 3.7
- The project's baseline and additionality is assessed against “ACM0002 version 10.0 for CDM large scale project
- The project's monitoring plan is assessed against “ACM0002 version 10.0 for CDM large scale project
- A risk-based approach has been followed to perform this validation activity. The review of the project description and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews with Project Owner have provided LGAI Technological Center S.A. (Applus+ Certification) with sufficient evidence for positive validation opinion as per the requirement of VCS.

APPENDIX 1: REFERENCE LIST

1. Project Description, version 1.0, dated 12/07/2019; version 2.0, dated 26/07/2019
2. Registered CDM PDD, version 3.0, dated 08/01/2010
3. Revised CDM PDD, version 4.0, dated 19/03/2013
4. Validation report, No. 2009-18, version 01.4, completed by KFQ
5. Validation report, No. CHINA-PRC/8731/2012, version 01, completed by BV
6. VCS standard version 3.7, dated on 21/06/2017
7. Approved methodology ACM0002, version 10.0, dated 11/06/2009
8. Nameplate of the equipment
9. Business License
10. Statement issued by project owner