

CGN INNER MONGOLIA ZHURIHE PHASE I WIND FARM PROJECT

Document Prepared By CGN Carbon Asset Management (Beijing) Co., Ltd.

Project Title	<i>CGN Inner Mongolia Zhurihe Phase I Wind Farm Project</i>
Version	<i>Version 02</i>
Date of Issue	<i>24/12/2013</i>
Prepared By	<i>CGN Carbon Asset Management (Beijing) Co., Ltd.</i>
Contact	<i>Area 12 of Advanced Business Park, No. 188 west of South 4th Ring Road, No.2 Building, Beijing, The People's Republic of China</i> <i>Telephone: +86 10 63705765</i> <i>Email: cgnwind@163.com</i>

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1 PROJECT DETAILS

1.1 Summary Description of the Project

CGN Inner Mongolia Zhurihe Phase I Wind Farm Project (hereinafter referred to as the proposed project) is located in the Inner Mongolia Autonomous Region. The project is developed by CGN Wind Power Co., Ltd. The objective of the project is to generate renewable electricity using wind power resources and to sell the generated output to the North China Power Grid (NCPG).

The proposed project site has an abundant wind resource. A decision has been made to install a total of 25 wind turbines, each with a rated power output of 2000 kW. The total power capacity of the wind farm will be 50 MW. The expected net supplied power to the grid is 123,962 MWh per year. It is ex-ante estimated that the project will generate average annual emission reduction of about 130,755 tCO₂e.

1.2 Sectoral Scope and Project Type

Category: Renewable electricity in grid connected application

Sectoral Scope 1: Energy Industry

The project is not a grouped project.

1.3 Project Proponent

Organization name	CGN Wind Power Co., Ltd.
Contact person	Shi Lei
Title	CDM office director
Address	Area 12 of Advanced Business Park, No. 188 west of South 4th Ring Road, No.2 Building, Beijing, The People's Republic of China
Telephone	+86 10 63705765
Email	cgnwind@163.com

1.4 Other Entities Involved in the Project

There are no other entities involved.

1.5 Project Start Date

04/03/2009 (commissioning start date)

1.6 Project Crediting Period

The project crediting period is from 04/03/2009 to 22/12/2009 and the total crediting period is 294 days.

1.7 Project Scale and Estimated GHG Emission Reductions or Removals

Project Scale	
Project	✓
Large project	

Year	Estimated reductions (tCO ₂ e)	GHG or emission removals
Year 1 (04/03/2009 to 22/12/2009)	105,320	
Total estimated ERs	105,320	
Total number of crediting years	9 months and 19 days	
Average annual ERs	105,320	

1.8 Description of the Project Activity

The project scenario is the installation of 25 wind turbines with an aggregate capacity of 50MW. The wind turbines are estimated by the Inner Mongolia Power Exploration & Design Institute, an independent professional technical design instate contracted by the project developer to carry out the feasibility study for the proposed project, to generate on average 123,962 MWh of electricity annually once fully operational, with an average load factor of 28.30%.

The lifetime of the project is 20 years.

1.9 Project Location

CGN Inner Mongolia Zhurihe Phase I Wind Farm lies in the middle north part of Inner Mongolia Autonomy Region of People's Republic of China. It is located at the 42°27'40" North latitude and 112°46'30" east longitude. The average altitude of the project site is 1180 m above sea level. Figure 1 and 2 shows respectively the location of Xilinguole City in China map and the project site in the map of Inner Mongolia Autonomy Region.

Figure A1. The location of the proposed project in the map of P. R. China

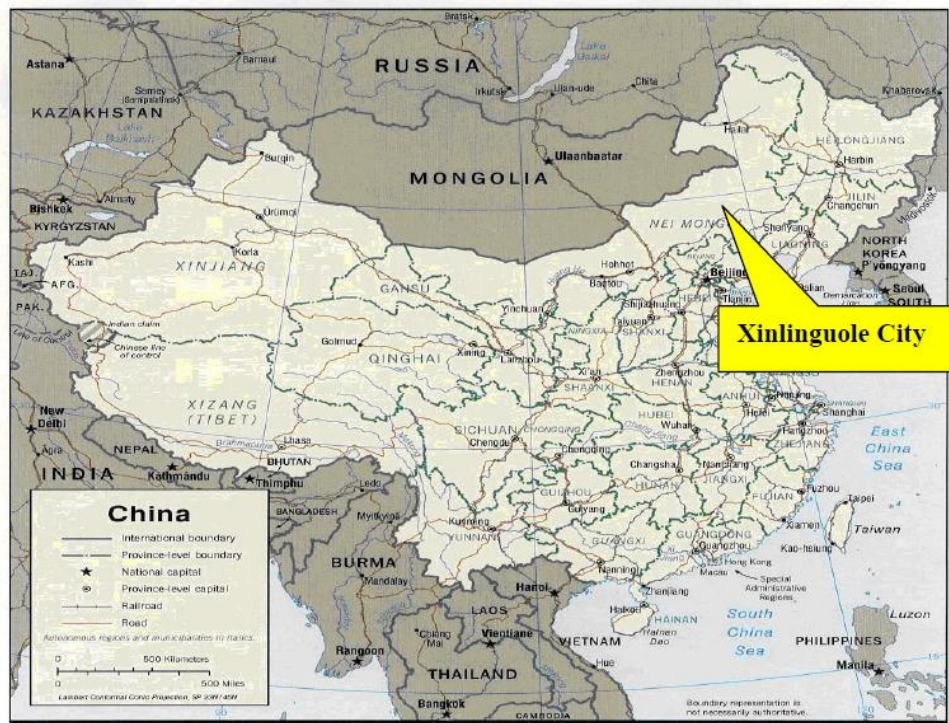
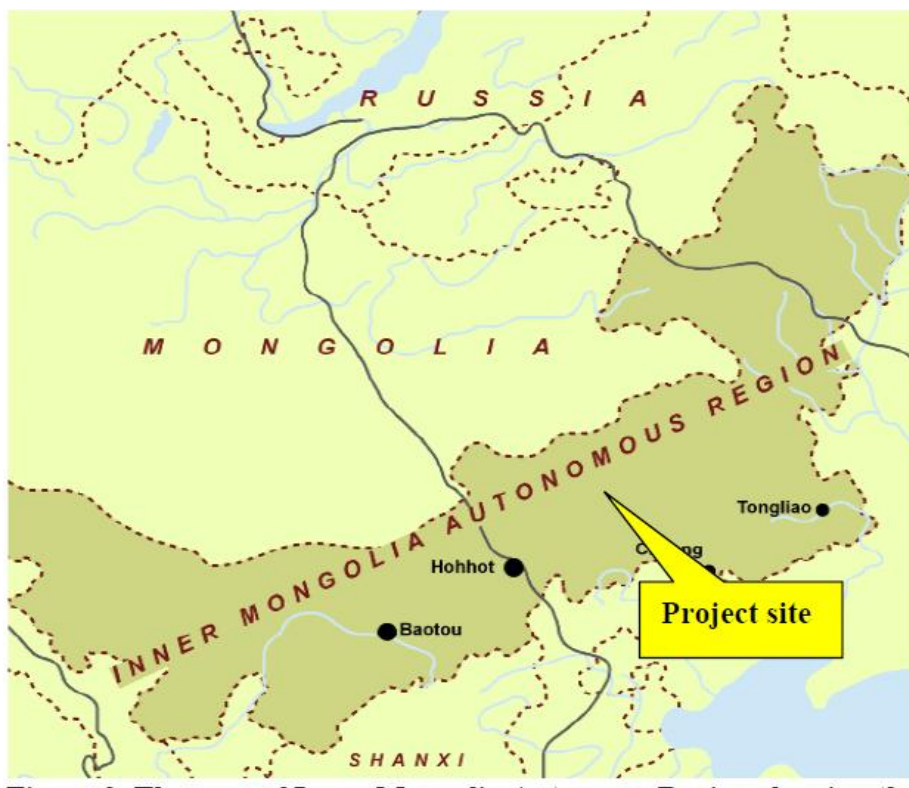


Figure A2. The location of the proposed project in the map of Inner Mongolia Autonomous Region, P. R. China



1.10 Conditions Prior to Project Initiation

The project activity is the installation of a new grid-connected wind power project and the generated power shall be exported to the NCPG. Electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources within NCPG.

The project is a renewable resource based on wind power project without GHG emissions during operation period. Therefore, it was confirmed that the project has not been implemented to generate GHG emissions for the purpose of their subsequent reduction, removal or destruction.

1.11 Compliance with Laws, Statutes and Other Regulatory Frameworks

The project complies with all Chinese relevant laws and regulations. It also obtained the approval letters from governmental authorities: Development and Reform Commission (DRC), as well as Environment Protection Bureau (EPB) of Inner Mongolia Autonomous Region. The two approvals well demonstrate that local government permits the construction of the project. Consequently, the project is compliance with laws, status and other regulatory frameworks.

1.12 Ownership and Other Programs

1.12.1 Right of Use

The business license is the evidence for right of use. The approval of FSR and EIA are evidences for legislative right. Besides, the purchasing contract of wind turbine and the power purchase agreement are the evidences for the ownership of the plant, equipment and process generating.

1.12.2 Emissions Trading Programs and Other Binding Limits

The project has been registered as a CDM project on 23/12/2009 with Ref No.1577, for which a renewable crediting period of 3*7 years will be used under the CDM GHG Program. Therefore, CO₂ emission reductions generated by the project during the CDM crediting period will be verified as unique CERs, but not VCUs to avoid double counting. As to the project under VCS standard (Version. 3.4), only emission reduction achieved from 04/03/2009 to 22/12/2009 will be considered as VCUs.

1.12.3 Other Forms of Environmental Credit

The project neither has nor intends to generate any other form of GHG-related environmental credit for GHG emission reductions or removals claimed under the VCS Program for the period from 04/03/2009 to 22/12/2009.

1.12.4 Participation under Other GHG Programs

The project has been registered as CDM project and the registration number is 1577, the CDM crediting period is form 23/12/2009 to 22/12/2016.

1.12.5 Projects Rejected by Other GHG Programs

NA

1.13 Additional Information Relevant to the Project

Eligibility Criteria

NA

Leakage Management

According to the consolidated methodology ACM0002 (Version 07), the leakage of the project is not considered.

Commercially Sensitive Information

No commercially sensitive information has been excluded from the public version of the project description.

Further Information

No further information is required.

2 APPLICATION OF METHODOLOGY

2.1 Title and Reference of Methodology

The approved methodology applied in the proposed project activity is ACM0002 (version 07) – “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”.

“Tool for the demonstration and assessment of additionality (version 05.2)” and

“Tool to calculate the emission factor for an electricity system (version 01.1.0)” is also applied in the proposed project.

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

2.2 Applicability of Methodology

The approved methodology ACM0002 is applicable to the project activity, because:

a. The Project is a newly-built 50MW grid-connected renewable energy (i.e. wind power) power plant at a site where no renewable power plant was operated prior to the implementation of the project activity.

b. The Project does not involve an on-site switch from fossil fuels to a renewable source.

Therefore, the baseline methodology ACM0002 (version 07) is applicable to the project activity.

2.3 Project Boundary

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section B.3 of the PDD.

2.4 Baseline Scenario

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section B.4 of the PDD.

2.5 Additionality

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section B.5 of the PDD.

2.6 Methodology Deviations

There is no deviation of the adopted methodology.

3 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

3.1 Baseline Emissions

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section B.6 of the PDD.

3.2 Project Emissions

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section B.6 of the PDD.

3.3 Leakage

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section B.6 of the PDD.

3.4 Net GHG Emission Reductions and Removals

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section B.6.4 of the PDD.

4 MONITORING

4.1 Data and Parameters Available at Validation

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section B.6.2 of the PDD.

4.2 Data and Parameters Monitored

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section B.7 of the PDD.

4.3 Monitoring Plan

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section B.7.2 of the PDD.

5 ENVIRONMENTAL IMPACT

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section D of the PDD.

6 STAKEHOLDER COMMENTS

The project had been registered as a UNFCCC CDM project with Ref No.1577, Please refer to the Section E of the PDD.