

MONITORING REPORT FORM (CDM-MR) *
Version 01 - in effect as of: 28/09/2010

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* as contained within the document entitled "Guidelines for completing the monitoring report form (CDM-MR)" (EB 54 meeting report, annex 34).

MONITORING REPORT
Version 01 and date 02/02/2012

Inner Mongolia Wuliji Wind Farm Project
Reference number: 2483
Monitoring period number: 2nd (first and last days included, 01/04/2011 to 31/01/2012)

SECTION A. General description of the project activity

A.1. Brief description of the project activity: >>

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Inner Mongolia Wuliji Wind Farm Project is generating renewable electricity utilizing wind power and sells the generated output to the North China Power Grid (NCPG) on the basis of a power purchase agreement (PPA). Based on the conditions of the project site, the project activity has installed 40 wind turbines, each with a capacity of 1.25MW. The total installed capacity of the project activity is 50MW. The ex-ante expected net generation of the project activity is approximately 117,630 MWh per year, with a load factor of 26.86%.

Project key date

Construction start date	02/09/2008
Commissioning start date	13/09/2009
Full commissioning date	24/10/2009
Date of CDM registration	15/03/2010
First renewable crediting period	15/03/2010 - 14/03/2017
Starting date of crediting period	15/03/2010
The 2 nd monitoring period ¹	01/04/2011 - 31/01/2012

The total emission reductions achieved in the current monitoring period are 102,246 tCO₂e.

A.2. Project Participants

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Name of Party involved	Private and/or public entity(ies) project participants (as applicable)	Party involved wishes to be considered as project participant (Yes/No)
P.R. China (host)	CGN Wind Power Co., Ltd.	No
United Kingdom of Great Britain and Northern Ireland	Carbon Resource Management Ltd.	No
Switzerland	Carbon Resource Management S.A.	No

A.3. Location of the project activity:

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Host country	People's Republic of China
Region	Inner Mongolia Autonomous Region
City	Bayannaoer
Town	Wulate Hou Qi
GPS coordinates	Longitude 106°38'30" East
	Latitude 41°30'20" North

¹ The first and last days were included in this monitoring period.

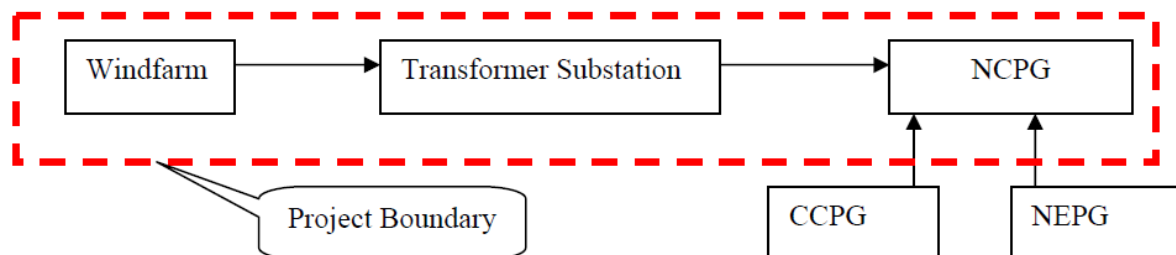


Figure 1: The location of the wind farm

A.4. Technical description of the project

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40 sets of 1250kW wind turbines (Model SEC-1250) from Sewind Co., Ltd. were selected. The electricity is exported through the onsite substation and transmission line to the North China Power Grid (NCPG).



A.5. Title, reference and version of the baseline and monitoring methodology applied to the project activity:

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The methodology applied in the proposed project is the approved baseline and monitoring methodology ACM0002 (version 09) – “Consolidated methodology for grid-connected electricity generation from renewable sources” (valid from 27 Feb 2009 onwards).

A.6. Registration date of the project activity:

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15/03/2010 (Version of the registered PDD is 2.1)

A.7. Crediting period of the project activity and related information (start date and choice of crediting period):

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Crediting period	First renewable crediting period
Starting date of crediting period	15/03/2010
End date of crediting period	14/03/2017

A.8. Name of responsible person(s)/entity(ies):

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Contact information of the person(s)/entity(ies) responsible for completing the monitoring report form (CDM-MR):

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The entity preparing the documentation: Additional Consulting and Engineering

SECTION B. Implementation of the project activity**B.1. Implementation status of the project activity**

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The project activity started construction on 02/09/2008. The project was commissioned from 13/09/2009 and all the 40 wind turbines have been put into operation gradually till 24/10/2009.

During this monitoring period, the wind farm has a good running, smooth data transfer and grid connection, and no special events happened.

No events or situations occurred during the monitoring period, which may impact the applicability of the methodology.

B.2. Revision of the monitoring plan

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The project is implemented as in the registered monitoring plan, no revision is applied.

B.3. Request for deviation applied to this monitoring period

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The project is implemented as in the registered monitoring plan, no deviation is applied.

B.4. Notification or request of approval of changes

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The project activity is implemented as in the registered CDM-PDD, there is no notification or request of approval of changes from the project activity as described in the registered CDM-PDD.

SECTION C. Description of the monitoring system

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1. Monitoring system and data collection

According to the registered PDD and the applied methodology, the electricity of exports and imports to the grid by the project activity should be monitored by the main meter installed in on-site substation and the metering data will be used to calculate the net electricity supplied to the grid and then the emission reduction could be calculated.

The electricity supplied to NCPG is continuously measured by the main meter installed in on-site substation. At 24:00 of the last day of each month, assigned staff of the project owner and a designated person from the grid company jointly recorded the main meter and supplied the monthly readings of the main meter to the Grid Company and the grid company issued sales receipts to the wind farm. Both the export electricity and import electricity have been crosschecked with the sales receipts during this monitoring period.

2. Organizational structure and responsibilities

Overall responsibility for monitoring and carrying out the monitoring following this monitoring plan lies with CGN Wind Power Co., Ltd. A monitoring director has the overall responsibilities for the monitoring of the project. The staffs who were responsible for electricity meter readings and recording, and who were responsible for auditing the metered data had been trained according to the CDM requirements. During this monitoring period, the wind farm was running well.

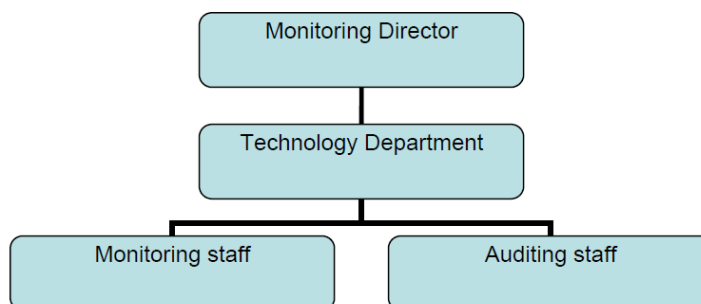


Figure 2 CDM management structure of the project

3. Emergency procedures

The metering equipments are calibrated and checked periodically by qualified third party for accuracy. Calibration was carried by Metrology Center of Inner Mongolia Electric Power Research Institute. Meters had been jointly inspected and sealed on behalf of the parties concerned. No errors occurred during this monitoring period.

Should any previous months reading of the main meter be inaccurate by more than the allowable error, or otherwise functioned improperly, the net generation output shall be determined by:

- (a) first, by reading backup meter, unless a test by either party reveals it is inaccurate;
- (b) if the backup system is not within acceptable limits of accuracy or operation is performed improperly, the project operator and NCPG shall jointly prepare an reasonable and conservative estimate of the correct reading, and provide sufficient evidence that this estimation is reasonable and conservative.

During the monitoring period, there is no emergency incident.

SECTION D. Data and parameters

D.1. Data and parameters determined at registration and not monitored during the monitoring period, including default values and factors

(Copy this table for each data and parameter. To report multiple values, a table may be used)

Data / Parameter:	EF_{grid,CM,y}
Data unit:	tCO ₂ e/MWh
Description:	Emission factor which is ex-anted according to the applied methodology
Source of data used:	Registered PDD
Value(s) :	1.0548
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline emission calculation
Additional comment:	

D.2. Data and parameters monitored

(Copy this table for each data and parameter. To report multiple values, a table may be used)

Data / Parameter:	EG_y
Data unit:	MWh

Description:	Net electricity supplied to the grid by the project				
Measured /Calculated /Default:	Net electricity supplied to the grid by the project (EG _y) is calculated from the measured electricity exported to the grid by the proposed project minus the measured electricity imported from the grid by the proposed project. The results from the main meter are jointly recorded by a designated person from the grid company and the project owner at 24:00 of the last day of each month.				
Source of data:	The main meter installed at onsite substation.				
Value(s) of monitored parameter:	EG _y during this monitoring period is 96,934.61 MWh.				
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	Baseline Emission calculation				
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	The main meter and backup meter installed at onsite substation. Information of Monitoring equipment as follow tables:				
	Meter	Serial No.	Type	Accuracy	Calibration frequency
	Main Meter	95691047	digital	0.2S	annually
	Backup Meter	95691048	digital	0.2S	annually
	Meter	Calibration Date	Validity		
	Main Meter	09/11/2010	Yes		
25/08/2011		Yes			
Backup Meter	09/11/2010	Yes			
	25/08/2011	Yes			
	Calibration was carried by Metrology Center of Inner Mongolia Electric Power Research Institute and the calibration records were supplied to the developer by the power grid. The accreditation certificate for the calibrator (No. of accreditation certificate: Meng (2009) 15021) was issued by Quality and Technical Supervision Bureau of Inner Mongolia Autonomous Region and valid for this monitoring period.				
Measuring/ Reading/ Recording frequency:	Measuring continuously/ Recording monthly				
Calculation method (if applicable):	-				
QA/QC procedures applied:	1. The net electricity supply to the grid is double checked by receipt of sales. 2. The meters are calibrated once per year by a qualified organization according to the related national standards and regulations (Chinese electricity industry regulation DL/T448-2000). 3. A back-up meter is installed at the project site substation to check the main meter. When the main meter fails to work normally, the readings of the back-up meter will be adopted. 4. Proportion of the monitored data is 100%. 5. The data will be kept during the crediting period and until two years after the end of the crediting period.				

SECTION E. Emission reductions calculation

E.1. Baseline emissions calculation

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The baseline emissions in year y is calculated as

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

Where:

BE_y = Baseline emissions in year y (tCO₂/yr).

EG_y = The quantity of annual net electricity supplied to the grid by the proposed project (MWh).

$EF_{\text{grid,CM,y}}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the “Tool to calculate the emission factor for an electricity system” .

E.2. Project emissions calculation

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According to the applied methodology, as a renewable energy project, the project emissions of this project are zero.

E.3. Leakage calculation

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According to the applied methodology, as a renewable energy project, the project leakage of this project is zero.

E.4. Emission reductions calculation / table

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The net electricity supplied to the grid by the project in the 2nd monitoring period:

Period	Total exported electricity to the grid (MWh)	Total imported electricity from the grid (MWh)
01/04/2011-30/04/2011	12,961.36	44.08
01/05/2011-31/05/2011	14,471.64	39.20
01/06/2011-30/06/2011	10,935.34	43.82
01/07/2011-31/07/2011	9,816.58	41.24
01/08/2011-31/08/2011	8,419.44	56.77
01/09/2011-30/09/2011	7,648.86	55.71
01/10/2011-31/10/2011	9,654.47	34.95
01/11/2011-30/11/2011	8,070.14	89.60
01/12/2011-31/12/2011	6,576.50	235.57
01/01/2012-31/01/2012	9,178.70	157.48
Total	97,733.03	798.42

The Baseline emission in the 2nd monitoring period (01/04/2011-31/01/2012) is as follows:

Period	EG_y (MWh)	$EF_{\text{grid,CM,y}}$ (tCO ₂ e/MWh)	Baseline Emission (tCO ₂ e)
01/04/2011-31/01/2012	96,934.61	1.0548	102,246

The emission reduction in the 2nd monitoring period (01/04/2011-31/01/2012) should be calculated as follows: $ER_y = BE_y - PE_y - L_y$

Period	Total baseline emissions (tCO ₂ e) BE_y	Total project emissions (tCO ₂ e) PE_y	Total leakage (tCO ₂ e) L_y	Total emission reductions (tCO ₂ e) $ER_y = BE_y - PE_y - L_y$
01/04/2011-31/01/2012	102,246	0	0	102,246

E.5. Comparison of actual emission reductions with estimates in the CDM-PDD

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This section shall include a comparison of actual values of the emission reductions achieved during the monitoring period with the estimations in the registered CDM-PDD.

Item	Values applied in ex-ante calculation of the registered CDM-PDD	Actual values reached during the monitoring period
Emission reductions (tCO ₂ e) (01/04/2011-31/01/2012)	104,019*	102,246

*Note: The data is average one calculated based on the registered PDD. The annual emission reductions estimated in the registered PDD are 124,076 tCO₂e. The monitoring period covers 306 days, so the average one is calculated as below:

$124,076/365*306=104,019 \text{ tCO}_2\text{e}$

E.6. Remarks on difference from estimated value in the PDD

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The actual emission reductions during this monitoring period are 102,246tCO₂e, which is lower than the estimation in the registered PDD.

History of the document

Version	Date	Nature of revision
01	EB 54, Annex 34 28 May 2010	Initial adoption.
Decision Class: Regulatory Document Type: Guideline, Form Business Function: Issuance		