



Monitoring report form
(Version 05.1)

Complete this form in accordance with the Attachment "Instructions for filling out the monitoring report form" at the end of this form.

MONITORING REPORT

Title of the project activity	Hebei Yuxian Kongzhongcaoyuan 49.5MW Wind Farm Project	
UNFCCC reference number of the project activity	2088	
Version number of the monitoring report	01	
Completion date of the monitoring report	24/04/2017	
Monitoring period number and duration of this monitoring period	9 th monitoring period 23/02/2016-31/12/2016	
Project participant(s)	Hebei Construction Investment Yuzhou Wind Energy Co., Ltd. Vattenfall Energy Trading Netherlands N.V.	
Host Party	People's Republic of China	
Sectoral scope(s)	Sectoral scope 1: energy industries (renewable sources)	
Selected methodology(ies)	ACM0002-"Grid-connected electricity generation from renewable sources (version 17.0)	
Selected standardized baseline(s)	Not applicable	
Estimated amount of GHG emission reductions or net GHG removals by sinks for this monitoring period in the registered PDD	85,969tCO ₂ e ¹	
Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period	GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012	GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards
	0 tCO ₂ e	57,498tCO ₂ e

¹ The estimated annual emission reductions were 100,527tCO₂e in the registered PDD. The actual operational days during this monitoring period are 313days (i.e. from 23 Feb 2016 to 31 Dec2016). Therefore, the estimated reductions for the operation period during this monitoring period are 85,969tCO₂e (i.e. 100,527/366*313=85,969CO₂e)

SECTION A. Description of project activity

A.1. Purpose and general description of project activity

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The objective of Hebei Yuxian Kongzhongcaoyuan 49.5MW Wind Farm Project (hereafter refer to the project) is to generate renewable electricity using wind power resources and to sell the generated output through Hebei Southern Power Grid to the North China Power Grid. The project activity reduces greenhouse gas (GHG) emission by avoiding CO₂ emissions from electricity generation by fossil fuel power plants that supply the North China Power Grid.

The project applies Grid-connected electricity generation using wind energy technology. The main equipments of the project are 33 sets of WTGs with rated capacity of 1.5MW which were manufactured by Dong Fang Turbine Co., Ltd.

The relevant dates for the Project activity are illustrated as follows:

The date of starting construction: 20/05/2007

The date of first wind turbine starting to operate: 17/07/2008

The commissioning date of the Project: 27/09/2008

During the 9th monitoring period from 23/02/2016 to 31/12/2016, the Project was running smoothly and no emergency happened. Total emission reductions achieved in this monitoring period are 57,498tCO₂e.

A.2. Location of project activity

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The project is located in the Xiagongcun Village of Yuxian County, Zhangjiakou City, Hebei Province in North China. The site location's approximate coordinates are East Longitude of 114°30'45" ~ 114°32'25" and North Latitude of 39°36'32" ~ 39°33'58.6". The project site is about 30 kilometers far away from the town of Yuxian County.

A.3. Parties and project participant(s)

Party involved (host) indicates a host Party)	Private and/or public entity(ies) project participants (as applicable)	Indicate whether the Party involved wishes to be considered as project participant (yes/no)
People's Republic of China (Host)	Hebei Construction Investment Yuzhou Wind Energy Co., Ltd	No.
Sweden	Vattenfall Energy Trading Netherlands N.V.	No.

A.4. Reference of applied methodology and standardized baseline

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The approved methodology applied in the project activity is ACM0002 – "Grid-connected electricity generation from renewable sources (version 17.0)". For more information regarding the methodology please refer to

<http://cdm.unfccc.int/methodologies/DB/8W400U6E7LFHHYH2C4JR1RJWWO4PVN>

Tools referenced in this methodology:

"Tool for the demonstration and assessment of additionality (version 07.0.0)"

<http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf>

"Tool to calculate the emission factor for an electricity system" (version 05.0)

<http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v5.0.pdf>

"Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period" (version 03.0.1)

A.5. Crediting period of project activity

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A renewable crediting period of 7 years×3 is selected for the project activity. The first CDM crediting period is from 23/02/2009 to 22/02/2016. The second crediting period is from 23/02/2016 to 22/02/2023.

A.6. Contact information of responsible persons/entities

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Name of person completing this monitoring report:

CECEP Huajing Carbon Assets Management Co., Ltd.

Zhenlan Li: lizhenlan@cecep.cn

Tel: +86-10-65903379; 15011019192

CECEP Huajing Carbon Assets Management Co., Ltd. is not project participant.

SECTION B. Implementation of project activity**B.1. Description of implemented registered project activity**

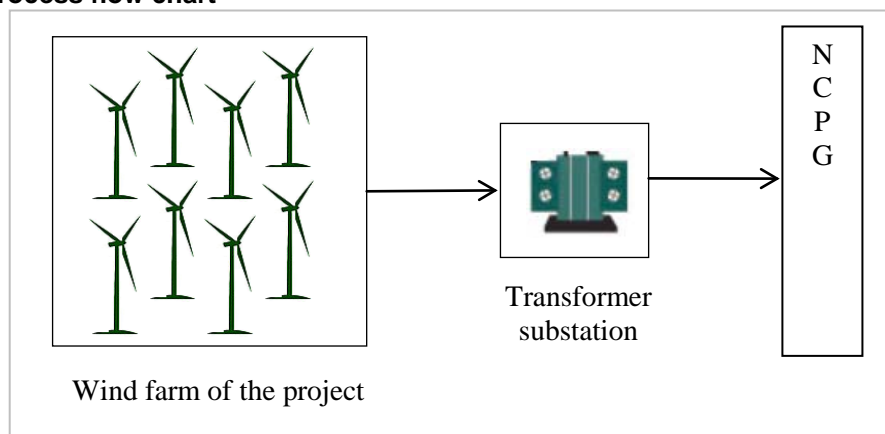
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The installed technology, technical processes and equipments

The project has a total installed capacity of 49.5MW, involves 33 units of wind turbine-generators, each of which has a rated capacity of 1,500kW and was manufactured by Dong Fang Turbine Co., Ltd.. Key technical parameters of the wind generator are listed in table 2.

The Project installed 33 sets of 1.5MW wind turbine-generators with a total installed capacity at 49.5MW. Electricity generated by the Project is delivered to NCPG via a 220 kV transmission line.

The wind power generation process of the project is showed in Figure B.1.1.

Figure B.1.1 Process flow chart

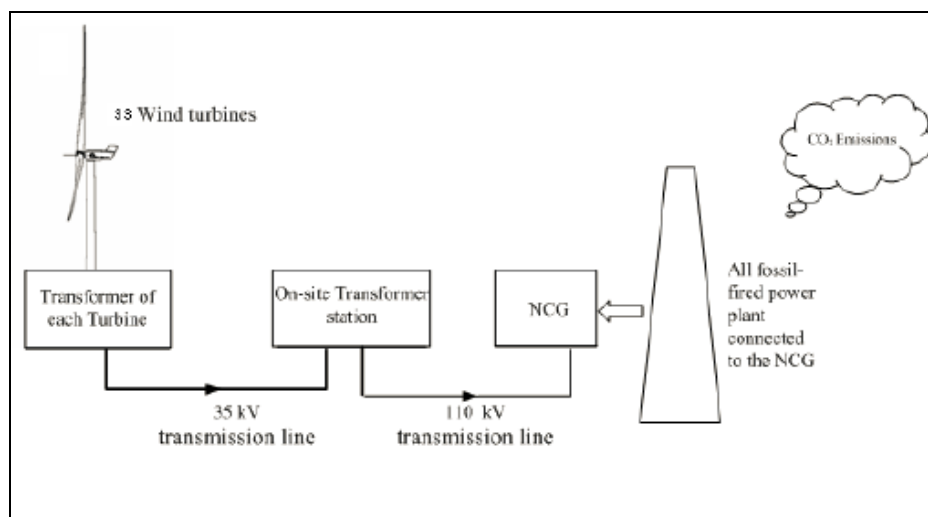
The technical parameters of the installed wind turbine are shown in the table below.

Table B.1.1. Technical parameters of wind turbine/generator

Wind turbine	Type of Turbine		FD70B
	Nominal output	kW	1500
	Diameter	m	70
	Hub height	m	65
	Rated voltage	V	690

	Nominal wind speed	m/s	13
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According to the turbine layout, each turbine will be equipped with one transformer. The construction also included the wind farm 110kV step-up substation. The wind power to be generated is delivered to Laiyuan County 110kV transformer station through a single 110kV loop-line which is about 34km.



A 35/110kV transformer at a capacity of 50MVA has been built in the wind farm. The project adopts turbine-box transformer unit boosting voltage of the generated electricity from 690V to 35kV. All box transformers are linked with the 35kV suspension lines and are connected to the low voltage side of the 35/110kV transformer. After boosted the voltage, the electricity will be supplied to Hebei Southern Power Grid.

The implementation and actual operation of the project activity

The Project started construction on 20/05/2007, the first set of wind turbines started operation on 17/07/2008, the project started full operation on 27/09/2008, and the project started commercial operation on 15/01/2009. During the 8th monitoring period, the monitoring system of the Project was implemented in line with the monitoring plan. The wind farm had a good running, no equipment's overhauled or replaced and no other emergency happened.

Events or situations that occurred during the monitoring period that may impact the applicability of the methodology

No other events or rule/policy changes have taken place that could have affected the applicability of the methodology during this monitoring period.

B.2. Post-registration changes

B.2.1. Temporary deviations from registered monitoring plan, applied methodology or applied standardized baseline

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There are no any temporary deviations from registered monitoring plan, applied methodology have been applied during this monitoring period.

B.2.2. Corrections

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There are no any corrections to project information or parameters fixed at validation during this monitoring period.

B.2.3. Changes to start date of crediting period

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There are no any changes to start date of crediting period of the project during this monitoring period.

B.2.4. Inclusion of a monitoring plan to the registered PDD that was not included at registration

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Not applicable. The registered PDD included a monitoring plan at registration.

B.2.5. Permanent changes from registered monitoring plan, applied methodology or applied standardized baseline

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There are no any permanent changes from the registered monitoring plan of the project, applied methodologies during this monitoring period.

B.2.6. Changes to project design of registered project activity

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There are no any changes to project design of the project during this monitoring period.

B.2.7. Types of changes specific to afforestation or reforestation project activity

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Not applicable.

SECTION C. Description of monitoring system

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1. Data monitored

The net electricity (EG_y) supplied to the grid by the project is be measured directly; It is calculated by the following equation. In line with the monitoring methodology ACM0002 and monitoring plan elaborated in the registered PDD, it is required to monitor the following parameters:

$$EG_y = EG_{s,y} - EG_{c,y} - EG_{backupline,y}$$

① $EG_{s,y}$ is the Electricity supplied to the Grid by the project

② $EG_{c,y}$ is the Electricity consumed from the grid by the project through the main power line.

③ $EG_{backupline,y}$ is the Electricity consumed from the grid by the project through the backup line

2. Monitoring organization

This monitoring plan is implemented by Hebei Construction Investment Yuzhou Wind Energy Co., Ltd, the project owner, and consultants that appointed by the project owner.

The monitoring activity involves 8 employees including 1 project manager. The project manager is responsible for the implementation and monitoring of the monitoring activity. There are 3 departments organized for data report, quality control and training. There are 2 managers responsible for data report and quality control department by 1 of each. There are also 4 staffs work in these two departments by 2 of each.

The manager takes charge of the employment administration, as well as the operation implementation and monitoring; staffs carry on the concrete assignment based on the guide of their manager. The training department has 1 manager who is responsible for the entire training process

of the project. The monitoring system flowchart of this project is shown in figure 2.



Figure 2. Monitoring system flow chart of the project

3.Roles and responsibilities

The person with overall responsibility for monitoring activity is Mr. Zhao Yongchao. The responsibility for electricity data management reporting and the accuracy of metering equipment in the whole stage is Mr. Cai Zhiyong. Mr. Bai Pengyu and Mr. Yu Lei are responsible for recording, management and storing electronic data. The sales receipt of electricity supplied by the grid is also be kept by them. The responsibility for the calibration and maintenance of the metering equipments is Mr. Cai Zhiyong, Mr. Yang Yongheng and Mr. Li Yugang.

4.Metering System

The power generated by the project is transmitted to an on-site step-up transformer station which boosts the voltage to 110 kV, and then be delivered to Laiyuan transformer station which connected to the Hebei Southern Power Grid. Not only is the electricity transmitted from the Project to the grid through the main power line, but also the electricity is transmitted from the grid to the Project through the main power line. There is also a backup power line (10kV line) connected to the project in case of blackout in the main power line. The simplified electrical grid connection diagram is shown in figure 3. The electricity meter indicated by M1 in Figure 3 is the main electricity meter, and the electricity meter indicated by M2 is the backup electricity meter. Both of them locate at the output of on-site transformer and measure the bi-directional electricity. The electricity meter indicated by M3 in Figure 3 locates at the output of Laiyuan transformer station and measures the power delivered to the project through the backup power line. The project owner and the grid company are responsible for the measurement of the monitoring parameters.

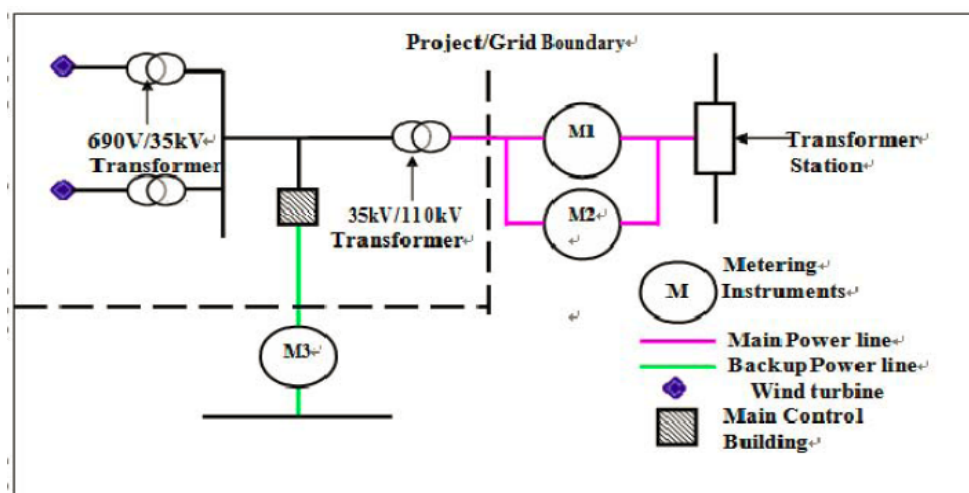


Figure 3.Simplified electrical grid connection diagram

5. The data generation, aggregation, recording, calculation

Net electricity supplied to the grid by the project is calculated on a monthly basis as:

$$EG_y = EG_{s,y} - EG_{c,y} - EG_{\text{backupline},y}$$

$EG_{s,y}$ is the electricity supplied to the grid by the project metered by the instruments at M1.

$EG_{c,y}$ is the electricity consumed from the grid by the project through the main power line metered by the instruments at M1.

$EG_{\text{backupline},y}$ is the electricity consumed from the grid by the project through the backup line metered by the instruments at M3.

$EG_{s,y}$ is monitored by M1 in Figure 3 and conducted by grid company and the project owner. The logbook of monthly operation is done by the project owner and confirmed by the grid company. The cut-off time is at 24:00 on the 24th of each month. A reading ($EG_{s,y}$) was recorded at 0:00 in the beginning for this monitoring period. The sales receipts serve as crosscheck.

$EG_{c,y}$ is monitored by M1 in Figure 3 and conducted by grid company and the project owner. The logbook of monthly operation is done by the project owner and confirmed by the grid company. The cut-off time is at 24:00 on the 24th of each month. A reading ($EG_{c,y}$) was recorded at 0:00 in the beginning for this monitoring period. The sales receipts from the grid company serve as a crosscheck.

$EG_{\text{backupline},y}$ is monitored by M3 in Figure3 and conducted by Laiyuan County Power Supply Company and the project owner. The cut-off time is at 24:00 on the 24th of each month. A reading ($EG_{\text{backupline},y}$) was recorded at 0:00 in the beginning for this monitoring period. The sales receipts from the grid company serve as a cross-check.

For every parameter ($EG_{s,y}$, $EG_{c,y}$, $EG_{\text{backupline},y}$), there are two values sourced from the electricity sales receipt and the monitored data. The minor value of $EG_{s,y}$ and the greater one of $EG_{c,y}$ and $EG_{\text{backupline},y}$ are used to calculate emission reductions(ER). These are conservative.

6. Emergency procedures

In case the meter is out of order, it shall be inspected, repaired, or replaced immediately by the professional staff and the Project Owner and the power grid company shall jointly determine quantity of net electricity generation supplied by the Project to the grid. A conservative and reasonable estimate of the readings shall be determined and conservative values shall be used to estimate emission reductions. In this monitoring period, the wind farm ran smoothly and no emergency happened.

SECTION D. Data and parameters

D.1. Data and parameters fixed ex ante or at renewal of crediting period

Data/parameter:	$EF_{\text{grid,CM},y}$
Unit	tCO ₂ e/MWh
Description	The baseline emission factor
Source of data	Ex-ante calculation in the registered PDD
Value(s) applied)	0.9007
Choice of data or measurement methods and procedures	Ex-ante calculation in the registered PDD
Purpose of data	Calculation of baseline emissions ex-ante
Additional comments	N/A

D.2. Data and parameters monitored

Data/parameter:	EGs,y																																
Unit	MWh																																
Description	Electricity supplied to the grid by the project.																																
Measured/calculated/default	Calculated based on the measurement of monitoring meters at the project site																																
Source of data	This parameter was continuously measured by electricity meter. The meter readings were read and recorded by Project owner and grid company.																																
Value(s) of monitored parameter	64,151																																
Monitoring equipment	<table border="1"> <tr> <td>Name</td><td>M1</td><td>Accuracy class</td><td>0.2%</td></tr> <tr> <td>Type</td><td>ZMD402</td><td>S.N.</td><td>94827518</td></tr> <tr> <td>Calibration frequency</td><td>Annual</td><td></td><td></td></tr> <tr> <td>validity</td><td>One year</td><td>Note</td><td>Main meter</td></tr> <tr> <td>Name</td><td>M1</td><td>Accuracy class</td><td>0.2%</td></tr> <tr> <td>Type</td><td>ZMD402</td><td>S.N.</td><td>95411208</td></tr> <tr> <td>Calibration frequency</td><td>Annual</td><td></td><td></td></tr> <tr> <td>validity</td><td>One year</td><td>Note</td><td>Backup meter</td></tr> </table>	Name	M1	Accuracy class	0.2%	Type	ZMD402	S.N.	94827518	Calibration frequency	Annual			validity	One year	Note	Main meter	Name	M1	Accuracy class	0.2%	Type	ZMD402	S.N.	95411208	Calibration frequency	Annual			validity	One year	Note	Backup meter
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Calibration frequency	Annual																																
validity	One year	Note	Backup meter																														
Measuring/reading/recording frequency:	Continuously measurement and monthly recording																																
Calculation method (if applicable):	-																																
QA/QC procedures:	The electricity meter with an accuracy class of 0.2% was calibrated once a year by qualified entity. Sales receipts serve as a cross-check.																																
Purpose of data:	The data are used for calculation of baseline emissions.																																
Additional comments:	N/A																																

Data/parameter:	EGc,y																																
Unit	MWh																																
Description	Electricity consumed from the grid by the project through the main power line.																																
Measured/calculated/default	Measured																																
Source of data	This parameter was continuously measured by electricity meter. The meter readings were read and recorded by Project owner and grid company.																																
Value(s) of monitored parameter	313																																
Monitoring equipment	<table border="1"> <tr> <td>Name</td><td>M1</td><td>Accuracy class</td><td>0.2%</td></tr> <tr> <td>Type</td><td>ZMD402</td><td>S.N.</td><td>94827518</td></tr> <tr> <td>Calibration frequency</td><td>Annual</td><td></td><td></td></tr> <tr> <td>validity</td><td>One year</td><td>Note</td><td>Main meter</td></tr> <tr> <td>Name</td><td>M1</td><td>Accuracy class</td><td>0.2%</td></tr> <tr> <td>Type</td><td>ZMD402</td><td>S.N.</td><td>95411208</td></tr> <tr> <td>Calibration frequency</td><td>Annual</td><td></td><td></td></tr> <tr> <td>validity</td><td>One year</td><td>Note</td><td>Backup meter</td></tr> </table>	Name	M1	Accuracy class	0.2%	Type	ZMD402	S.N.	94827518	Calibration frequency	Annual			validity	One year	Note	Main meter	Name	M1	Accuracy class	0.2%	Type	ZMD402	S.N.	95411208	Calibration frequency	Annual			validity	One year	Note	Backup meter
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Measuring/reading/recording frequency:	Continuous measurement and at least monthly recording																																

Calculation method (if applicable):	N/A
QA/QC procedures:	The electricity meter with an accuracy class of 0.2% was calibrated once a year by qualified entity. Sales receipts serve as a cross-check.
Purpose of data:	The data are used for calculation of baseline emissions
Additional comments:	N/A

Data/parameter:	EG_{backupline,y}																		
Unit	MWh																		
Description	Electricity consumed from the grid by the project through the back up line.																		
Measured/calculated/default	Measured																		
Source of data	This parameter was continuously measured by electricity meter. The meter readings were read and recorded by Project owner and grid company.																		
Value(s) of monitored parameter	0.00																		
Monitoring equipment	This parameter is measured with on-site meter M3: <table border="1"> <tr> <td>Name</td><td>M3</td><td>Accuracy class</td><td>0.5%</td></tr> <tr> <td>Type</td><td>DSSD331</td><td>S.N.</td><td>20070130030114</td></tr> <tr> <td>Calibration frequency</td><td>Annual</td><td></td><td></td></tr> <tr> <td>validity</td><td>One year</td><td>Note</td><td>Main meter</td></tr> </table>			Name	M3	Accuracy class	0.5%	Type	DSSD331	S.N.	20070130030114	Calibration frequency	Annual			validity	One year	Note	Main meter
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Calculation method (if applicable):	N/A																		
QA/QC procedures:	The electricity meter with an accuracy class of 0.5% was calibrated once a year by qualified entity. Sales receipts serve as a cross-check.																		
Purpose of data:	The data are used for calculation of baseline emissions																		
Additional comments:	N/A																		

D.3. Implementation of sampling plan

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Not applicable.

SECTION E. Calculation of emission reductions or GHG removals by sinks

E.1. Calculation of baseline emissions or baseline net GHG removals by sinks

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According to the methodology ACM0002, the emissions of the baseline scenario are:

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

Where:

BE_y is the baseline emissions.

EG_y is the net electricity supplied to the grid.

EF_{grid,CM,y} is the CO₂ emission factor of the grid.

The quantity of electricity delivered by the Project to NCPG during this monitoring period is shown in Table E.1.1.

Table E.1.1. Amount of electricity delivered by the Project to NCPG (EGs,y) (Unit: MWh)

Period	Electricity from meter readings	Values from receipts	Conservative value for ER calculation
	EGs,y		
	A	B	C=min(A,B)
23/02/2016-29/02/2016	3,338.03	3,338.00	3,338.00
01/03/2016-31/03/2016	8,453.00	8,453.00	8,453.00
01/04/2016-30/04/2016	8,481.00	8,481.00	8,481.00
01/05/2016-31/05/2016	5,867.14	5,911.00	5,867.14
01/06/2016-30/06/2016	3,049.20	3,049.00	3,049.00
01/07/2016-31/07/2016	2,652.00	2,652.00	2,652.00
01/08/2016-31/08/2016	2,869.00	2,869.00	2,869.00
01/09/2016-30/09/2016	3,023.00	2,969.00	2,969.00
01/10/2016-31/10/2016	7,669.99	7,669.99	7,669.99
01/11/2016-30/11/2016	10,301.94	10,301.94	10,301.94
01/12/2016-31/12/2016	8,501.00	8,501.00	8,501.00
Total			64,151

The quantity of electricity imported by the Project from NCPG during this monitoring period is shown in Table E.1.2.

Table E.1.2. Amount of electricity imported by the Project to NCPG(EG_{c,y}) (Unit: MWh)

Period	Electricity from meter readings	Electricity from receipts	Conservative value for ER calculation
	D	E	F=max(D,E)
23/02/2016-29/02/2016	5.94	5.94	5.94
01/03/2016-31/03/2016	12.54	12.54	12.54
01/04/2016-30/04/2016	11.88	11.88	11.88
01/05/2016-31/05/2016	18.48	18.48	18.48
01/06/2016-30/06/2016	38.28	38.28	38.28
01/07/2016-31/07/2016	44.22	44.22	44.22
01/08/2016-31/08/2016	50.16	50.16	50.16
01/09/2016-30/09/2016	39.60	39.60	39.60
01/10/2016-31/10/2016	19.80	19.80	19.80
01/11/2016-30/11/2016	52.80	52.80	52.80
01/12/2016-31/12/2016	18.48	18.48	18.48
Total			313

The quantity of electricity imported by the Project via 10kV backup line during this monitoring period is shown in Table E.1.3.

Table E.1.3. Amount of electricity imported by the Project from 10kV backup line (EG_{backupline,y}) (Unit: MWh)

Period	Electricity from meter readings	Electricity from receipts	Conservative value for ER calculation
	G	H	I=max(G,H)
23/02/2016-29/02/2016	0.00	0.00	0.00
01/03/2016-31/03/2016	0.00	0.00	0.00
01/04/2016-30/04/2016	0.00	0.00	0.00
01/05/2016-31/05/2016	0.00	0.00	0.00
01/06/2016-30/06/2016	0.00	0.00	0.00
01/07/2016-31/07/2016	0.00	0.00	0.00
01/08/2016-31/08/2016	0.00	0.00	0.00
01/09/2016-30/09/2016	0.00	0.00	0.00

01/10/2016-31/10/2016	0.00	0.00	0.00
01/11/2016-30/11/2016	0.00	0.00	0.00
01/12/2016-31/12/2016	0.00	0.00	0.00
Total	0.00	0.00	0.00

Based on Table E1.1, Table E1.2, and Table E1.3 the total amount of the net electricity delivered by the Project to NCPG in this monitoring period is shown in Table E 1.4:

Table E.1.4. Amount of net electricity delivered by the project to NCPG (EGy) (Unit: MWh)

Period	Electricity delivered by the project to the grid	Electricity imported by the project from the grid	Electricity imported by the project from 10kV backup line	Amount of net electricity delivered by the project to the grid
23/02/2016-29/02/2016	3,338.00	5.94	0.00	3,332.06
01/03/2016-31/03/2016	8,453.00	12.54	0.00	8,440.46
01/04/2016-30/04/2016	8,481.00	11.88	0.00	8,469.12
01/05/2016-31/05/2016	5,867.14	18.48	0.00	5,848.66
01/06/2016-30/06/2016	3,049.00	38.28	0.00	3,010.72
01/07/2016-31/07/2016	2,652.00	44.22	0.00	2,607.78
01/08/2016-31/08/2016	2,869.00	50.16	0.00	2,818.84
01/09/2016-30/09/2016	2,969.00	39.60	0.00	2,929.40
01/10/2016-31/10/2016	7,669.99	19.80	0.00	7,650.19
01/11/2016-30/11/2016	10,301.94	52.80	0.00	10,249.14
01/12/2016-31/12/2016	8,501.00	18.48	0.00	8,482.52
Total				63,838

The baseline emissions are calculated according to formula (1):

$$BE_y = EG_y \times EF_y = 63,838 \text{ MWh} \times 0.9007 \text{ tCO}_2\text{e /MWh} = 57,498 \text{ tCO}_2\text{e}$$

E.2. Calculation of project emissions or actual net GHG removals by sinks

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According to ACM0002 (version 17.0), the Project is a wind power project and project emissions are not considered.

E.3. Calculation of leakage

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According to ACM0002 (version 17.0), no leakage effects need to be accounted.

E.4. Summary of calculation of emission reductions or net GHG removals by sinks

Item	Baseline emissions or baseline net GHG removals by sinks (t CO ₂ e)	Project emissions or actual net GHG removals by sinks (t CO ₂ e)	Leakage (t CO ₂ e)	GHG emission reductions or net GHG removals by sinks (t CO ₂ e) achieved in the monitoring period		
				Up to 31/12/2012	From 01/01/2013	Total amount
Total	57,498	0	0	0	57,498	57,498

E.5. Comparison of actual emission reductions or net GHG removals by sinks with estimates in registered PDD

Item	Values estimated in ex ante calculation of registered PDD	Actual values achieved during this monitoring period
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Item	Values estimated in ex ante calculation of registered PDD	Actual values achieved during this monitoring period
Emission reductions or GHG removals by sinks (t CO ₂ e)	85,969 ²	57,498

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

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The amount of emission reductions achieved in this monitoring period is 33.1% lower than the estimated value for the same period in the approved registered PDD due to the fluctuation of wind speed.

² The estimated annual emission reductions were 100,527tCO₂e in the registered PDD. The actual operational days during this monitoring period are 313days (i.e. from 23 Feb 2016 to 31 Dec2016). Therefore, the estimated reductions for the operation period during this monitoring period are 85,969tCO₂e (i.e. $100,527/366 \times 313 = 85,969\text{CO}_2\text{e}$)

Appendix 1. Contact information of project participants and responsible persons/entities

Project participant and/or responsible person/ entity	<input checked="" type="checkbox"/> Project participant <input type="checkbox"/> Responsible person/ entity for completing the CDM-MR-FORM
Organization name	Hebei Construction Investment Yuzhou wind energy Co.,Ltd
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Project participant and/or responsible person/ entity	<input checked="" type="checkbox"/> Project participant <input type="checkbox"/> Responsible person/ entity for completing the CDM-MR-FORM
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Contact person	Francisco Grajales Cravioto
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Project participant and/or responsible person/ entity	<input type="checkbox"/> Project participant <input checked="" type="checkbox"/> Responsible person/ entity for completing the CDM-MR-FORM
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