



**Verification and certification report form for
CDM project activities**
(Version 04.0)

Complete this form in accordance with the instructions attached at the end of this form.

BASIC INFORMATION

Title and UNFCCC reference number of the project activity	Zhangbei Mijiagou 49.5 MW Windfarm Project (UNFCCC reference number: 0845)		
Scale of the project activity	<input checked="" type="checkbox"/> Large-scale <input type="checkbox"/> Small-scale		
Version number of the verification and certification report	01.0		
Completion date of the verification and certification report	05/09/2021		
Monitoring period number and duration of this monitoring period	The 11 th monitoring period: 01/10/2015 - 31/12/2019		
Version number of the monitoring report to which this report applies	02		
Crediting period of the project activity corresponding to this monitoring period	The 2 nd crediting period: 22/03/2014 - 21/03/2021		
Project participants	The project owner: Zhangbei Guotou Wind Power Plant (China) Buyer: MBA Trading Limited (United Kingdom of Great Britain and Northern Ireland)		
Host Party	China		
Applied methodologies and standardized baselines	Energy industries (renewable - / non-renewable sources) ACM0002 Consolidated baseline methodology for grid-connected electricity generation from renewable sources (Version 15.0)		
Mandatory sectoral scopes	1: Energy industries (renewable - / non-renewable sources)		
Conditional sectoral scopes, if applicable	Not applicable		
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	412,791 tCO ₂ e		
Certified amount of GHG emission reductions or GHG removals for this monitoring period	Amount before 1 January 2013	Amount from 1 January 2013 until 31 December 2020	Amount from 1 January 2021
	0 tCO ₂ e	406,306 tCO ₂ e	0 tCO ₂ e
Name and UNFCCC reference number of the DOE	LGAI Technological Center, S.A. (Applus+ Certification) UNFCCC Ref. No.: E-0032		

Name, position and signature of the approver of the verification and certification report	Mr. Agustín Calle de Miguel <i>Applus+ Certification CDM Technical Manager</i> Signature: 
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SECTION A. Executive summary

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LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by Zhangbei Guotou Wind Power Plant to perform the 11th periodical verification of Zhangbei Mijiagou 49.5 MW Windfarm Project (UNFCCC Ref. No. 0845) applying the methodology ACM0002 version 15.0 under the requirement of CDM validation and verification standard for project activities version 02.0. The management of Zhangbei Guotou Wind Power Plant is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions.

A desk review and follow up have been conducted to verify the data submitted in the monitoring report. Applus+ Certification confirms the following has been reviewed:

- (a) The registered PDD, including the monitoring plan and the corresponding validation report;
- (b) Monitoring reports of previous monitoring periods and corresponding verification reports (if applicable);
- (c) Monitoring report of this monitoring period;
- (d) The applied monitoring methodology;
- (e) Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board;
- (f) All information and references relevant to the project activity's resulting in emission reductions.

Zhangbei Mijiagou 49.5 MW Windfarm Project is a newly-built wind power project. The purpose of the project is to generate electricity by using wind resources to alleviate electricity shortage in North area of China. The project activity will achieve greenhouse gas (GHG) emission reductions by avoiding GHG emissions from the electricity generation of fossil fuel-fired power plants in North China Power Grid (NCPG) which is dominant of fuel-fired power plants. The total installed capacity of the project is 49.5 MW involves the installation and operation of 33 sets of wind power turbine generator with 1,500 kW each. The project started construction on 28/04/2006 and started fully operation on 19/05/2007, the commissioning date for the first generator was 20/03/2007.

Applus+ Certification confirms that the project is implemented in accordance with the validated and registered PDD. The monitoring plan complies with the applied methodology ACM0002 version 15.0 and the monitoring has been carried out in accordance with the monitoring plan. The monitoring system is in place and the emission reductions are calculated without material misstatements. Our opinion relates to the projects GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information reviewed and evaluated Applus+ Certification confirms that the implementation of the project has resulted in 406,306 tCO₂e emission reductions during period 01/10/2015 - 31/12/2019.

SECTION B. Verification team, technical reviewer and approver

B.1. Verification team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Verification findings

1.	Team Leader/ Technical Expert	EI	Dai	Doris	Applus+ Certification	x	x	x	x
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B.2. Technical reviewer and approver of the verification and certification report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	EI	Shen	Simon	Applus+ Certification
2.	Approver	IR	Calle de Miguel	Agustín	Applus+ Certification

SECTION C. Application of materiality

C.1. Consideration of materiality in planning the verification

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	N.A.			

C.2. Consideration of materiality in conducting the verification

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Not applicable.

SECTION D. Means of verification

D.1. Desk/document review

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The Monitoring Report version 01 dated 23/07/2021 submitted by the PP was made publicly available on the UNFCCC website before the verification activities started. The published MR was assessed based on all the relevant documents. The aim of the assessment in the desk review was to:

- verify the completeness of the data and the information presented in the MR;
- check the compliance of the MR with respect to the monitoring plan depicted in the registered PDD and verify that the applied methodology was carried out. Particular attention to the frequency of measurements, the quality of the metering equipment including calibration requirements, and the quality assurance and quality control procedures was paid;
- evaluate the data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

A complete list of documents reviewed is available in Appendix 3 of this report.

D.2. On-site inspection

Duration of on-site inspection: 01/09/2021				
No.	Activity performed on-site	Site location	Date	Team member
1.	<ul style="list-style-type: none"> - confirm the implementation and operation of the project; - review the data flow for generating, aggregating and reporting the monitoring parameters; - confirm the correct implementation of procedures for operations and data collection; - cross-check the information provided in the MR documentation with other sources; - review the calculations and assumptions used to obtain the GHG data and ER; - check the monitoring equipment against the requirements of the PDD and the approved methodology, including calibrations, maintenance, etc.; - identify if the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters. 	Nearby the Mijiagou village, west of Zhangbei county, Zhangjiakou city, Hebei Province, People's Republic of China	01/09/2021	Doris Dai

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Jiang	Zhiliu	Zhangbei Guotou Wind Power Plant	01/09/2021	Operation of the project activity; Implementation of the monitor plan of the project activity; Data collection and data achievement; Calibration of meters and equipment maintenance; Data collection and ER calculation	Doris Dai
2	Guanting	Wenyuan	Zhangbei Guotou Wind Power Plant	01/09/2021		

D.4. Sampling approach

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Not applicable.

D.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	0	0	0
Compliance of the project implementation and operation with the registered PDD	0	0	0
Post-registration changes	0	0	0

Compliance of the registered monitoring plan with the methodologies including applicable tools and standardized baselines	0	0	0
Compliance of monitoring activities with the registered monitoring plan	0	0	0
Compliance with the calibration frequency requirements for measuring instruments	1	0	0
Assessment of data and calculation of emission reductions or net removals	0	0	0
Assessment of reported sustainable development co-benefits	0	0	0
Global stakeholder consultation	0	0	0
Others (please specify)	0	0	0
Total	1	0	0

SECTION E. Verification findings

E.1. Compliance of the monitoring report with the monitoring report form

Means of verification	The verification team verified the applied monitoring form against the latest version of "CDM-MR-FORM".
Findings	The "CDM-MR-FORM" version 08.0 was applied. The verification team has verified the format against the template and confirmed that the correct format of MR form is used.
Conclusion	The monitoring report is in line with the "CDM-MR-FORM" version 08.0 and instructions therein.

E.2. Remaining forward action requests from validation and/or previous verifications

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This is the 11th periodical verification. There are no remaining issues and FARs from the validation report and former verification report.

E.3. Compliance of the project implementation and operation with the registered project design document

Means of verification	The verification team has, by means of an on-site inspection, assessed that all physical features (technology, project equipment, and monitoring and metering equipment) of the registered CDM project activity are in place and that the project participants have operated the project activity as per the registered PDD.
Findings	<p>The project was registered on 22/03/2007 with the reference number 0845 which is available on the UNFCCC website (https://cdm.unfccc.int/Projects/DB/DNV-CUK1167997490.52/view?cp=1). And then the project was successfully renewed on 06/05/2015 which is available on the UNFCCC website (https://cdm.unfccc.int/Projects/DB/DNV-CUK1167997490.52/view).</p> <p>This monitoring period falls into the 2nd crediting period. The 2nd crediting period is from 22/03/2014 to 21/03/2021.</p> <p>The project activity is implemented in accordance with the approved consolidated baseline and monitoring methodology ACM0002 version 15.0.</p> <ul style="list-style-type: none"> - The Project is grid connected renewable power generation project activity; - The Project is green-field electricity generation project; - The project activity does not involve in any non-renewable components, a capacity addition, co-generation and retrofit or modification to an existing facility; - The project activity does not involve in switching from fossil fuels to renewable energy sources at the site where no renewable power plant was operated prior to the implementation of the project activity; - The geographic and system boundary includes the North China Power Grid (NCPG) to which the project is supplying the electricity, the grid is clearly identifiable and the information on the characteristics of the grid is available.

	<p>The project covers the period 01/10/2015 - 31/12/2019 during the 2nd crediting period. The project started construction on 28/04/2006 and started fully operation on 19/05/2007. The commissioning date for the first generator was 20/03/2007. All these have been confirmed by site visit and checking operation log and validation and verification report.</p> <p>The verification team has performed a site visit to verify the actual implementation of the project against the description in the registered PDD. In this monitoring period, the project involved implementation and operation of 33 sets of wind power turbine generator with 1,500 kW each. The start date and end date of this monitoring period is within the 2nd crediting period. The capacity of the installed capacity is the same as per the registered PDD. The total installed capacity of the project is 49.5 MW with 33 sets of wind power turbine generator with 1,500 kW each. Through site visit, the verification team has verified the technical parameters of the main equipment. The turbines' model is IT-77/1500-C II which is in line with the actual situation and the technical parameters specified in the registered PDD. Through the document review and site visit, the verification team confirmed that the actual implementation of the project is in accordance with the registered PDD.</p> <p>The generated electricity is properly delivered to the North China Power Grid as confirmed by site visit and checking Power Purchase Agreement (PPA). As described in the MR, the monitoring of electricity is performed with several Electronic Watt-hour Meters, which is maintained by Zhangbei Guotou Wind Power Plant. Quantity of net electricity generation supplied by the Project plant/unit to the grid in year y ($EG_{facility,y}$) is calculated based on The total power generation to the grid of these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by meter M with accuracy of 0.2s (EG_{total}), The electricity generation metered from the Zhangbei Manjing Windfarm Project (E_I), The electricity generation metered from the Project (E_{II}) and The total power consumption of the these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by the meter M with accuracy of 0.2s ($E_{consume}$). E_I, E_{II}, $E_{consume}$ and EG_{total} are hourly monitored and Power Grid Company or project owner reads the meter on a monthly basis. The location of the monitoring meters has been visited by the verification team during site visit. The installation of the monitoring meters is in compliance with the description in the registered updated PDD.</p> <p>The CDM management manual was verified by the verification team, and the monitoring and management system was found in place. The staffs of the project activity have received training on monitoring, management & CDM knowledge, the training records were also verified by the verification team.</p> <p>The monitoring report contains a comparison of the actual emission reductions claimed in the monitoring period with the estimation in the registered PDD. The actual emission reductions during this monitoring period are lower than the values estimated in the registered PDD for the monitoring period 01/10/2015 - 31/12/2019 which surely will not lead to the over-estimation of ERs.</p> <p>During the site visit, no changes have been observed or identified which may impact the additionality as there was no change in the effective output capacity, no addition of component nor extension of technology, no addition nor removal of project sites of the project activity, no change of values of the actual operational parameter relevant to determination of emission reductions which are within the control of the PP; no change has been observed or identified that may impact the scale of the project activity or applicability of baseline and monitoring methodology. It's confirmed that there are no special events in the monitoring period. As a result, the verification team confirms that none of the data affects the additionality, scale or applicability of the project.</p>
Conclusion	The verification team confirms that the implementation and operation of the registered CDM project activity has been conducted in accordance with the description contained in the registered PDD. There is no deviation or the proposed

	or actual changes in the implementation or operation of the registered CDM project activity during this monitoring period.
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E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents¹

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Not applicable.

E.4.2. Corrections

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Not applicable.

E.4.3. Changes to the start date of the crediting period

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Not applicable.

E.4.4. Inclusion of a monitoring plan

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Not applicable.

E.4.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents

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Not applicable.

E.4.6. Changes to the project design

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Not applicable.

E.4.7. Changes specific to afforestation and reforestation project activities

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Not applicable.

E.5. Compliance of the registered monitoring plan with applied methodologies, applied standardized baselines, and other applied methodological regulatory documents

Means of verification	The verification team has verified the monitoring plan in the registered PDD with the approved methodology ACM0002, version 15.0 to confirm the compliance.
Findings	The monitoring plan in the registered PDD is in accordance with the approved methodology ACM0002, version 15.0, applied by the proposed CDM project activity. No correction or permanent change to the monitoring plan has been requested to the CDM Executive Board due to the compliance with methodology.
Conclusion	The monitoring plan in the registered PDD is in accordance with the approved methodology ACM0002, version 15.0.

E.6. Compliance of monitoring activities with the registered monitoring plan

E.6.1. Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	The verification team has verified the defaulted figures which are not monitored in crediting period via comparing with the registered PDD.
Findings	Parameter “Baseline emission factor: the combined emission factor of the project

¹ Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied(selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

	grid system" ($EF_{grid,CM,y}$) is the only parameter that is fixed at renewal of crediting period. The value of the parameter is 0.9170 tCO ₂ e/MWh which was calculated according to the procedure outlined in B.6 of the registered PDD for the 2 nd crediting period.
Conclusion	The verification team confirmed that the figures are consistent with its sources.

E.6.2. Data and parameters monitored

Means of verification	<p>The verification team has verified the following via the site inspection and documents review:</p> <ul style="list-style-type: none"> - Whether the registered monitoring plan has been properly implemented and followed by the project participants; - Whether all parameters stated in the registered monitoring plan and relevant Board decisions have been monitored and updated as applicable, including: <ul style="list-style-type: none"> i) Project emission parameters; ii) Baseline emission parameters; iii) Leakage parameters; iv) Management and operational system: the responsibilities and authorities for monitoring and reporting are in accordance with the responsibilities and authorities stated in the registered monitoring plan; - Whether the equipment used for monitoring is controlled and calibrated in accordance with the registered monitoring plan, the applied methodology, Board guidance, local/national standards, or as per the manufacturer's specification; - Whether the monitoring results are consistently recorded as per approved frequency; - Whether the quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan. 																							
Findings	<p>The monitoring has been carried out in accordance with the monitoring plan in registered updated PDD. All parameters were monitored and determined as per the monitoring plan which is listed in below table:</p> <table border="1"> <thead> <tr> <th>Meth/tool</th> <th>PDD</th> <th>MR</th> <th>Compliance?</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>E_I</td> <td>E_I</td> <td>Yes, although not mentioned in the methodology but necessary for ER calculation.</td> </tr> <tr> <td>-</td> <td>E_{II}</td> <td>E_{II}</td> <td>Yes, although not mentioned in the methodology but necessary for ER calculation.</td> </tr> <tr> <td>-</td> <td>EG_{total}</td> <td>EG_{total}</td> <td>Yes, although not mentioned in the methodology but necessary for ER calculation.</td> </tr> <tr> <td>-</td> <td>$E_{consume}$</td> <td>$E_{consume}$</td> <td>Yes, although not mentioned in the methodology but necessary</td> </tr> </tbody> </table>				Meth/tool	PDD	MR	Compliance?	-	E_I	E_I	Yes, although not mentioned in the methodology but necessary for ER calculation.	-	E_{II}	E_{II}	Yes, although not mentioned in the methodology but necessary for ER calculation.	-	EG_{total}	EG_{total}	Yes, although not mentioned in the methodology but necessary for ER calculation.	-	$E_{consume}$	$E_{consume}$	Yes, although not mentioned in the methodology but necessary
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			for ER calculation.														
EG _{facility,y}	EG _{facility,y}	EG _{facility,y}	Fully consistent														
Data / Parameter:	E _I																
Data unit:	MWh																
Description:	The electricity generation metered from the Zhangbei Manjing Windfarm Project																
Purpose of the data:	Calculation of baseline emissions																
Parameter value:	458,992.350																
Source of data used:	Meter Reading Record (MRRs) issued by the project owner, Electricity Transaction Notes (ETNs) issued by power grid company covering monitoring period.																
Information flow:	<p>The parameter is monitored by electricity meter M1 installed at the exit of 110kV Manjing project site substation. The data of M1 was measured continuously, recorded monthly and archived electronically. At 24:00 of the last day of every month, the raw data of meter reading of meters (M1 along with another 2 meters) are recorded by the project owner and form Monthly Reading Records (MRRs), and then send to the power grid company, after the confirmation and calculation of power grid company, the power grid company will issue ETNs.</p> <p>The data for MRRs and ETNs have been sent to the CDM consulting company for reporting of GHG emission reduction. The conservative one would be used for ER calculation.</p>																
Monitoring method, frequency and equipments:	<p>The parameter is monitored by electricity meter M1 installed at the exit of 110kV Manjing project site substation.</p> <p>See below for the information of M1 verified by site visit and checking calibration certificates:</p> <table border="1"> <thead> <tr> <th>Meter</th> <th>Type</th> <th>Serial Number</th> <th>Accuracy</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>DTZ178</td> <td>130684955787</td> <td>0.5s</td> </tr> </tbody> </table>			Meter	Type	Serial Number	Accuracy	M1	DTZ178	130684955787	0.5s						
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Meter	Calibration date	Valid until															
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	02/06/2017	01/06/2018															
	28/05/2018	27/05/2019															
	22/05/2019	21/05/2020															
QA/QC	Data record will be archived for a period of 2 years after the																

	<p>procedure:</p> <p>Means of verification:</p>	<p>crediting period to which the records pertain.</p> <p>Data of the parameter was verified by checking MRRs. All data is in line with MRRs;</p> <p>Information flow was verified by checking MRRs and ETNs, and all information are consistent;</p> <p>Monitoring method was verified by site visit, checking calibration certificates, all monitoring method meets the description in the PDD;</p> <p>Calibration was verified by checking calibration certificate and Accreditation certificate, all calibration of monitoring equipment meets the requirement indicated in the PDD.</p>																						
	<p>Data / Parameter: E_{II}</p> <p>Data unit: MWh</p> <p>Description: The electricity generation metered from the Project</p> <p>Purpose of the data: Calculation of baseline emissions</p> <p>Parameter value: 446,722.709</p> <p>Source of data used: Meter Reading Record (MRRs) issued by the project owner, Electricity Transaction Notes (ETNs) issued by power grid company covering monitoring period.</p> <p>Information flow: The parameter is monitored by electricity meter M2 installed at exit of 110kV project site substation. The data of M2 was measured continuously, recorded monthly and archived electronically. At 24:00 of the last day of every month, the raw data of meter reading of meters (M2 along with another 2 meters) are recorded by the project owner and form Monthly Reading Records (MRRs), and then send to the power grid company, after the confirmation and calculation of power grid company, the power grid company will issue ETNs.</p> <p>The data for MRRs and ETNs have been sent to the CDM consulting company for reporting of GHG emission reduction. The conservative one would be used for ER calculation.</p> <p>Monitoring method, frequency and equipments: The parameter is monitored by electricity meter M2 installed at exit of 110kV project site substation.</p> <p>See below for the information of M2 verified by site visit and checking calibration certificates:</p> <table border="1"> <thead> <tr> <th>Meter</th><th>Type</th><th>Serial Number</th><th>Accuracy</th></tr> </thead> <tbody> <tr> <td>M2</td><td>DTZ178</td><td>130684955732</td><td>0.5s</td></tr> </tbody> </table> <p>Calibration: The calibration information are below:</p> <table border="1"> <thead> <tr> <th>Meter</th><th>Calibration date</th><th>Valid until</th></tr> </thead> <tbody> <tr> <td rowspan="6">M2</td><td>10/06/2015</td><td>09/06/2016</td></tr> <tr><td>07/06/2016</td><td>06/06/2017</td></tr> <tr><td>02/06/2017</td><td>01/06/2018</td></tr> <tr><td>28/05/2018</td><td>27/05/2019</td></tr> <tr><td>22/05/2019</td><td>21/05/2020</td></tr> </tbody> </table> <p>The calibration for meters was conducted by an accredited</p>	Meter	Type	Serial Number	Accuracy	M2	DTZ178	130684955732	0.5s	Meter	Calibration date	Valid until	M2	10/06/2015	09/06/2016	07/06/2016	06/06/2017	02/06/2017	01/06/2018	28/05/2018	27/05/2019	22/05/2019	21/05/2020	
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	02/06/2017	01/06/2018																						
	28/05/2018	27/05/2019																						
	22/05/2019	21/05/2020																						

		third party which is Electric Measurement Centre of Zhangjiakou Power Grid Company was accredited valid from 13/02/2015 to 12/02/2018, and 12/02/2018 to 11/02/2021.								
QA/QC procedure:		Data record will be archived for a period of 2 years after the crediting period to which the records pertain.								
Means of verification:		<p>Data of the parameter was verified by checking MRRs. All data is in line with MRRs;</p> <p>Information flow was verified by checking MRRs and ETNs, and all information are consistent;</p> <p>Monitoring method was verified by site visit, checking calibration certificates, all monitoring method meets the description in the PDD;</p> <p>Calibration was verified by checking calibration certificate and Accreditation certificate, all calibration of monitoring equipment meets the requirement indicated in the PDD.</p>								
Data / Parameter:	EG _{total}									
Data unit:	MWh									
Description:	The total power generation to the grid of these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by meter M with accuracy of 0.2s									
Purpose of the data:	Calculation of baseline emissions									
Parameter value:	903,748.132									
Source of data used:	Meter Reading Record (MRRs) issued by the project owner, Electricity Transaction Notes (ETNs) issued by power grid company covering monitoring period.									
Information flow:	<p>The parameter is monitored by electricity meter M installed at 220kV substation of power grid. The data of M was measured continuously, recorded monthly and archived electronically. At 24:00 of the last day of every month, the raw data of meter reading of meters (M along with another 2 meters) are recorded by the project owner and form Monthly Reading Records (MRRs), and then send to the power grid company, after the confirmation and calculation of power grid company, the power grid company will issue ETNs.</p> <p>The data for MRRs and ETNs have been sent to the CDM consulting company for reporting of GHG emission reduction. The conservative one would be used for ER calculation.</p>									
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Meter	Type	Serial Number	Accuracy							
M	DSSD331	200407007Z0062	0.2s							

Calibration:	<p>The calibration information are below:</p> <table border="1"> <thead> <tr> <th>Meter</th><th>Calibration date</th><th>Valid until</th></tr> </thead> <tbody> <tr> <td rowspan="5">M</td><td>10/06/2015</td><td>09/06/2016</td></tr> <tr> <td>07/06/2016</td><td>06/06/2017</td></tr> <tr> <td>02/06/2017</td><td>01/06/2018</td></tr> <tr> <td>28/05/2018</td><td>27/05/2019</td></tr> <tr> <td>22/05/2019</td><td>21/05/2020</td></tr> </tbody> </table> <p>The calibration for meters was conducted by an accredited third party which is NCEPRI was accredited valid from 13/06/2012 to 12/06/2016, and 11/06/2016 to 10/06/2020.</p>	Meter	Calibration date	Valid until	M	10/06/2015	09/06/2016	07/06/2016	06/06/2017	02/06/2017	01/06/2018	28/05/2018	27/05/2019	22/05/2019	21/05/2020
Meter	Calibration date	Valid until													
M	10/06/2015	09/06/2016													
	07/06/2016	06/06/2017													
	02/06/2017	01/06/2018													
	28/05/2018	27/05/2019													
	22/05/2019	21/05/2020													
QA/QC procedure:	Data record will be archived for a period of 2 years after the crediting period to which the records pertain.														
Means of verification:	<p>Data of the parameter was verified by checking MRRs. All data is in line with MRRs;</p> <p>Information flow was verified by checking MRRs and ETNs, and all information are consistent;</p> <p>Monitoring method was verified by site visit, checking calibration certificates, all monitoring method meets the description in the PDD;</p> <p>Calibration was verified by checking calibration certificate and Accreditation certificate, all calibration of monitoring equipment meets the requirement indicated in the PDD.</p>														

Data / Parameter:	EG _{consume}
Data unit:	MWh
Description:	The total power consumption of the these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijigou Windfarm Project) at the 220kV Zhangbei substation metered by the meter M with accuracy of 0.2s
Purpose of the data:	Calculation of baseline emissions
Parameter value:	2,672.567
Source of data used:	Meter Reading Record (MRRs) issued by the project owner, Electricity Transaction Notes (ETNs) issued by power grid company covering monitoring period.
Information flow:	<p>The parameter is monitored by electricity meter M installed at 220kV substation of power grid. The data of M was measured continuously, recorded monthly and archived electronically. At 24:00 of the last day of every month, the raw data of meter reading of meter M are recorded by the project owner and form Monthly Reading Records (MRRs), and then send to the power grid company, after the confirmation and calculation of power grid company, the power grid company will issue ETNs.</p> <p>The data for MRRs and ETNs have been sent to the CDM consulting company for reporting of GHG emission reduction. The conservative one would be used for ER calculation.</p>
Monitoring method, frequency and	The parameter was measured continuously and recorded monthly by M installed at 220kV substation of power grid during the monitoring period verified by site visit. See below for the information of M verified by site visit and checking

	equipments:	<p>calibration certificates:</p> <table border="1"> <thead> <tr> <th>Meter</th><th>Type</th><th>Serial Number</th><th>Accuracy</th></tr> </thead> <tbody> <tr> <td>M</td><td>DSSD331</td><td>200407007Z0062</td><td>0.2s</td></tr> </tbody> </table> <p>The type, serial number and accuracy have been confirmed by site visit.</p>	Meter	Type	Serial Number	Accuracy	M	DSSD331	200407007Z0062	0.2s						
Meter	Type	Serial Number	Accuracy													
M	DSSD331	200407007Z0062	0.2s													
	Calibration:	<p>The calibration information are below:</p> <table border="1"> <thead> <tr> <th>Meter</th><th>Calibration date</th><th>Valid until</th></tr> </thead> <tbody> <tr> <td rowspan="5">M</td><td>10/06/2015</td><td>09/06/2016</td></tr> <tr> <td>07/06/2016</td><td>06/06/2017</td></tr> <tr> <td>02/06/2017</td><td>01/06/2018</td></tr> <tr> <td>28/05/2018</td><td>27/05/2019</td></tr> <tr> <td>22/05/2019</td><td>21/05/2020</td></tr> </tbody> </table> <p>The calibration for meters was conducted by an accredited third party which is NCEPRI was accredited valid from 13/06/2012 to 12/06/2016, and 11/06/2016 to 10/06/2020.</p>	Meter	Calibration date	Valid until	M	10/06/2015	09/06/2016	07/06/2016	06/06/2017	02/06/2017	01/06/2018	28/05/2018	27/05/2019	22/05/2019	21/05/2020
Meter	Calibration date	Valid until														
M	10/06/2015	09/06/2016														
	07/06/2016	06/06/2017														
	02/06/2017	01/06/2018														
	28/05/2018	27/05/2019														
	22/05/2019	21/05/2020														
	QA/QC procedure:	Data record will be archived for a period of 2 years after the crediting period to which the records pertain.														
	Means of verification:	<p>Data of the parameter was verified by checking MRRs. All data is in line with MRRs;</p> <p>Information flow was verified by checking MRRs and ETNs, and all information are consistent;</p> <p>Monitoring method was verified by site visit, checking calibration certificates, all monitoring method meets the description in the PDD;</p> <p>Calibration was verified by checking calibration certificate and Accreditation certificate, all calibration of monitoring equipment meets the requirement indicated in the PDD.</p>														
	<p>Data / Parameter: EG_{facility,y}</p> <p>Data unit: MWh</p> <p>Description: Quantity of net electricity generation supplied by the Project plant/unit to the grid in year y</p> <p>Purpose of the data: Calculation of baseline emissions</p> <p>Parameter value: Calculated by The total power generation to the grid of these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by meter M with accuracy of 0.2s (EG_{total}), The electricity generation metered from the Zhangbei Manjing Windfarm Project (E_i), The electricity generation metered from the Project (E_{II}) and The total power consumption of the these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by the meter M with accuracy of 0.2s (E_{consume}) $EG_{facility,y} = EG_{total} \times E_{II} / (E_i + E_{II}) - E_{consume} = 443,084.537$</p> <p>Source of data used: This parameter is calculated by The total power generation to the grid of these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project)</p>															

		at the 220kV Zhangbei substation metered by meter M with accuracy of 0.2s (EG_{total}), The electricity generation metered from the Zhangbei Manjing Windfarm Project (E_I), The electricity generation metered from the Project (E_{II}) and The total power consumption of the these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by the meter M with accuracy of 0.2s ($E_{consume}$), please refer to the report above.
	Information flow:	This parameter is calculated by The total power generation to the grid of these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by meter M with accuracy of 0.2s (EG_{total}), The electricity generation metered from the Zhangbei Manjing Windfarm Project (E_I), The electricity generation metered from the Project (E_{II}) and The total power consumption of the these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by the meter M with accuracy of 0.2s ($E_{consume}$), please refer to the report above.
	Monitoring method, frequency and equipments:	This parameter is calculated by The total power generation to the grid of these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by meter M with accuracy of 0.2s (EG_{total}), The electricity generation metered from the Zhangbei Manjing Windfarm Project (E_I), The electricity generation metered from the Project (E_{II}) and The total power consumption of the these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by the meter M with accuracy of 0.2s ($E_{consume}$), please refer to the report above.
	Calibration:	This parameter is calculated by The total power generation to the grid of these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by meter M with accuracy of 0.2s (EG_{total}), The electricity generation metered from the Zhangbei Manjing Windfarm Project (E_I), The electricity generation metered from the Project (E_{II}) and The total power consumption of the these two projects (Zhangbei Manjing Windfarm Project and Zhangbei Mijiagou Windfarm Project) at the 220kV Zhangbei substation metered by the meter M with accuracy of 0.2s ($E_{consume}$), please refer to the report above.
	QA/QC procedure:	Data record will be archived for a period of 2 years after the crediting period to which the records pertain.
	Means of verification:	Data of the parameter was verified by checking MRRs. All data is in line with MRRs; Information flow was verified by checking MRRs and ETNs, and all information are consistent; Monitoring method was verified by site visit, checking calibration certificates, all monitoring method meets the description in the PDD; Calibration was verified by checking calibration certificate and Accreditation certificate, all calibration of monitoring equipment meets the requirement indicated in the PDD.
Conclusion	The verification team confirmed that: - The registered monitoring plan has been properly implemented and followed	

	<p>by the project participants;</p> <ul style="list-style-type: none"> - All parameters stated in the registered monitoring plan and relevant Board decisions have been monitored; - The equipment used for monitoring is controlled and calibrated in accordance with the registered monitoring plan and the applicable national standard; - The monitoring results are consistently recorded as per approved frequency; - The quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan.
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E.6.3. Implementation of sampling plan

Means of verification	Not applicable.
Findings	Not applicable.
Conclusion	Not applicable.

E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	The verification team verified the calibration records of the monitoring equipment and the qualification of the calibrator to confirm the compliance of the calibration.
Findings	<p>3 monitoring meters are used in the monitoring period.</p> <p>The calibration information of the 3 meters has been presented in the E.6.2.</p> <p>As required by the registered updated PDD, the meters are examined, tested, debugged and calibrated at least once a year by Electric Measurement Centre of Zhangjiakou Power Grid Company and NCEPRI. During this monitoring period, the meters are calibrated at least once a year and the validity period of each calibration is 1 year, which is in line with monitoring plan. The verification team confirmed that the 1st calibration is before this monitoring period and the latest calibration validity period covers the last day of this monitoring period. Thereby, it is confirmed that the calibration interval is consistent with the monitoring plan. The validity period for the calibrations covered the whole monitoring period.</p> <p>Electric Measurement Centre of Zhangjiakou Power Grid Company was accredited valid from 13/02/2015 to 12/02/2018, and 12/02/2018 to 11/02/2021.</p> <p>NCEPRI was accredited valid from 13/06/2012 to 12/06/2016, and 11/06/2016 to 10/06/2020.</p> <p>Accreditations of institutions are valid when performed the calibration.</p>
Conclusion	The verification team confirmed that the calibration is conducted at the frequency as specified by the registered monitoring plan. The calibration is confirmed to be effective via verifying the calibration record and qualification of the calibrator.

E.8. Assessment of data and calculation of emission reductions or net removals

E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	The data recorded in the Monthly Reading Reports (MRRs) have been verified by the verification team. The recorded data have also been crosschecked with Electricity Transaction Notes (ETNs). Defaulted value used for baseline GHG emissions calculation has been verified against the data source. The calculation process as well as all assumptions used in the calculation of the baseline GHG emissions has been verified against the methodology and the registered PDD. The verification team also re-produced the calculation to confirm the correctness of the baseline GHG emissions calculation.
Findings	<p>The calculation tool, i.e. the ER Calculation spreadsheet clearly and transparently describes the calculation of baseline GHG emissions.</p> <p>As a result of verification of the baseline GHG emissions calculation process, the verification team confirmed that all the parameters required for the determination of the emission reductions have been included in the Monitoring Report and ER calculation spreadsheet and are consistent with the applied methodology ACM0002 version 15.0 and the monitoring plan contained in the registered PDD. The parameters are complete in this monitoring period.</p>

	<p>After verifying the reported figures with the raw data sources, it's confirmed that the values of the parameters from the raw data sources are consistent with those quoted in the ER calculation spreadsheet and the Monitoring Report. The verification process for the same has been clearly described in section E.6.2 of the report. The reported data of the monitored parameters have been crosschecked against other evidences than from the raw data records to confirm the appropriateness of the values.</p> <p>The verification team re-produced the calculation process in the ER calculation spreadsheet and confirmed that the methods and formulae used to obtain the baseline emissions are appropriate. The calculation has been done in accordance with the methods and formulae described in the registered monitoring plan and applicable methodology. Total emission reductions during the monitoring period have been rounded down to an integer.</p> <p>The verification team confirms that the assumptions, emission factors and default values (ex-ante values) from PDD used in the emission reductions calculation during the monitoring period have been correctly justified. All the emission factors and default values are explicitly mentioned in the final MR.</p>
Conclusion	<p>The verification team concluded that:</p> <ul style="list-style-type: none"> - A complete set of data for calculating the baseline GHG emissions are available during this monitoring period; - Reported electricity data for calculating baseline GHG emissions have been cross-checked against electricity sales invoices; - Appropriate methods and formulae for calculating baseline GHG emissions have been followed; - Assumptions, emission factors and default values that were applied in the calculations have been justified;

E.8.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	The calculation process of the project GHG emissions has been verified against the methodology and the registered PDD.
Findings	The project emission (PE_y) is zero as the project activity is a wind farm power generation project without any fossil fuel consumption. Thus no project emissions are envisaged from the project activity.
Conclusion	The project GHG emissions during this monitoring period are confirmed as 0 tCO ₂ e.

E.8.3. Calculation of leakage GHG emissions

Means of verification	The calculation process of the leakage GHG emissions has been verified against the methodology and the registered PDD.
Findings	According to the Methodology ACM0002, there will be no leakage caused by the Project activity. Thus, leakage is 0.
Conclusion	The leakage GHG emissions during this monitoring period are 0.

E.8.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	The calculation process of the GHG emission reductions has been verified against the methodology and the registered PDD.
Findings	The GHG emission reductions equal to the baseline GHG emissions minus the project GHG emissions and the leakage GHG emissions.
Conclusion	The verification team confirmed that the GHG emission reductions during this monitoring period have been correctly calculated and reported.

E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Means of verification	The verification team verified the comparison process of actual GHG emission reductions with the estimates in registered PDD.
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Findings	The estimated emission reduction in the 2 nd crediting period is 97,018 tCO ₂ e per year. The period of 01/10/2015 - 31/12/2019 includes 1,553 days. So, the estimated emission reduction is: 97,018 / 365 * 1,553 = 412,791 tCO ₂ e.
Conclusion	The verification team confirmed that the calculation of the estimated value during this monitoring period in the registered PDD is correct. The actual values achieved during this monitoring period are lower than the estimates in the registered PDD which is not overestimated.

E.8.6. Remarks on difference from estimated value in registered PDD

Means of verification	The verification team verified the explanation in the MR of the difference from the estimated value in the registered PDD.
Findings	The actual emission reductions are lower than the values estimated in the registered PDD and the verification consider this is acceptable as conservativeness.
Conclusion	The actual emission reductions are lower than the values estimated in the registered PDD, which has been explained. The verification team confirmed the explanation is appropriate.

E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	The verification team confirmed the calculation of actual GHG emission reductions in the MR during the second commitment period and the period from 01/01/2013 onwards.
Findings	Whole GHG emission reductions of this monitoring period are from 01/01/2013 onwards.
Conclusion	Whole GHG emission reductions of this monitoring period are from 01/01/2013 onwards. Therefore, in the MR the presentation of GHG emission reductions from 01/01/2013 onwards are correct.

E.9. Assessment of reported sustainable development co-benefits

Means of verification	Not applicable.
Findings	Not applicable.
Conclusion	Not applicable.

E.10. Global stakeholder consultation

Means of verification	The verification team checked the comments from UNFCCC and verified if such comments are authentic and relevant to CDM matters.
Findings	There were no comments received for the project during this monitoring period.
Conclusion	There were no comments received for the project during this monitoring period.

SECTION F. Internal quality control

>>

As a final step for verification, the final documentation, including the verification report, has to undergo an internal quality control by the Technical Reviewer(s) to be approved.

Details of the Technical Reviewer(s) are provided within the verification report in Section B.2. and Appendix 2 for further references of knowledge and capability to conduct the quality checking.

After the Technical Review process, the final documentation may undergo a final quality checking process called Administrative Review, done by the Applus+ Certification's Project Manager and/or Technical Support.

For final approval, the final set of documents are prepared by the DOE's Technical Manager or its deputy and signed by the authorized signatory of the DOE.

In case any of the persons performing this final internal quality control approval process has acted as a part of the Assessment Team or Technical Review team, the approval can only be given by DOE's authorized personnel who are not part of those teams.

If the final set of documents has been satisfactorily approved, a Request for Issuance is submitted to the UNFCCC CDM EB along with the relevant documents.

SECTION G. Verification opinion

>>

Applus+ Certification has been engaged by Zhangbei Guotou Wind Power Plant to perform the eleventh periodical verification of the Zhangbei Mijiagou 49.5 MW Windfarm Project (UNFCCC Ref. No. 0845).

The management of Zhangbei Guotou Wind Power Plant is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project's Monitoring Plan in the PDD version 1.13 completed on 26/08/2014 and the applied methodology ACM0002 version 15.0.

Our verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakesh accord, as well as those defined by the CDM Executive Board. 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 operated as planned and described in the project design document approved by the EB;*
- *the monitoring plan is as per the applied methodology;*
- *the monitoring in Monitoring Report is as per the PDD and the monitoring plan approved by the EB;*
- *the development and maintenance of records and reporting procedures are in accordance with the registered monitoring plan;*
- *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.*

In our opinion, the GHG emission reductions for Zhangbei Mijiagou 49.5 MW Windfarm Project for the monitoring period 01/10/2015 to 31/12/2019 as reported in Monitoring Report, prepared on the basis of the project's Monitoring Plan are fairly stated.

SECTION H. Certification statement

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Based on the information we have seen and evaluated, we confirm the following statement:

Reporting period:	From 01/10/2015 - 31/12/2019
Verified emissions in the above reporting period:	
Leakage emissions	0 tCO ₂ equivalents
Project emissions	0 tCO ₂ equivalents
Baseline emissions	406,306 tCO ₂ equivalents
Emission reductions	406,306 tCO ₂ equivalents
Actual values achieved up to 31 December 2012	0 tCO ₂ equivalents
Actual values achieved from 1 January 2013 onwards	406,306 tCO ₂ equivalents

Appendix 1. Abbreviations

Abbreviations	Full texts
ACM	Approved Consolidated Methodology
AM	Approved Methodology
AMS	Approved Methodology Small Scale
Applus+ Certification	LGAI Technological Center, S.A. (Applus)
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CER	Certified Emission Reduction
CM	Combined Margin
CMP	Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol
DNA	Designated National Authority
DOE	Designated Operational Entity
EF	Emission Factor
EIA	Environmental Impact Assessment
ER	Emission Reduction
FAR	Forward Action Request
FSR	Feasibility Study Report
GHG	Greenhouse Gas(es)
IPCC	Intergovernmental Panel on Climate Change
IRL	Information Reference List
IRR	Internal Rate of Return
KP	Kyoto Protocol
MP	Monitoring Plan
MR	Monitoring Report
NCPG	North China Power Grid
NGO	Non-Governmental Organization
OM	Operational Margin
PDD	Project Design Document
PP	Project Participant
UNFCCC	United Nations Framework Convention for Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers

According to the applicable sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed an assessment team in compliance with the Contract Review and Assessment Team appointment rules in the internal Quality Management System of Applus+ Certification as well as in compliance with the applicable requirements in the Accreditation Standard.

The composition of the Assessment Team (Applus+ Certification's verification team) has been approved by Applus+ Certification during the Contract Review process ensuring that the required skills and capabilities are covered.

The qualification levels for Assessment Team members that are assigned by aforementioned appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A).
- Technical Expert (TE).
- Technical Reviewer (TR).
- Any of the above mentioned roles in training (iT, e.g. AiT for auditor in training).

The Sectoral Scope / Technical Area required knowledge linked to the applied methodology(ies) is covered by the Assessment Team as shown below:

Name	Role	SS/TA Knowledge	Financial Expertise	Attendance to on-site visit
Ms. Doris Dai	LA/ TE	YES (1.2)	n/a	YES
Mr. Simon Shen	TR /TE	YES (1.2)	n/a	n/a

A brief Curriculum Vitae (CV) of the Assessment Team members is provided below:

Doris Dai (Master's Degree in Environmental Sciences, Bachelor's Degree in Environmental Technology) is an Auditor appointed by Applus+ LGAI for the GHG project assessment and auditing. She has more than 6 years of work experience in CDM/VCS project assessment. Before she joined Applus+ LGAI, she has been working for CTI Certification as senior GHG Auditor for 3.5 years.

Simon Shen (Master Degree in Thermal Energy Engineering, Bachelor Degree in Environmental Engineering) has been appointed as a Technical Reviewer by Applus+ Certification for the GHG project assessment. He is based in Shanghai. He has several years of work experience in environmental protection field. Before he joined Applus+ Certification, he had been worked for TÜV SÜD as a GHG Validator/Verifier and ISO 9001/14001 Lead Auditor for 3.5 years.

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	Project owner	Monitoring Report, version 01	23/07/2021	Project participants
2	Project owner	Monitoring Report, version 02	04/09/2021	Project participants
3	Project owner	ER calculation spreadsheet	/	Project participants
4	Project owner	Registered PDD Version 1.13	26/08/2014	Project participants
5	TÜV SÜD South Asia Pvt. Ltd.	Validation Report Version 2	31/01/2015	Others
6	Applus+ Certification	Verification Report Version 01.1	13/01/2016	Others
7	Project owner	Nameplate of equipment and monitoring equipment	/	Project participants
8	UNFCCC	Information on UNFCCC:	http://cdm.unfccc.int/Projects/DB/DNV-CUK1167997490.52/view	Others
9	Chinese NDRC	Chinese Regional Grid Baseline Emission Factors 2013	17/09/2013	Others
10	Project owner	CDM management manual	/	Project participants
11	UNFCCC	CDM validation and verification standard for project activities version 02.0	/	Others
12	UNFCCC	ACM0002 version 15.0	/	Others
13	Power Grid Company	Electricity Transaction Note (ETNs)	Covering the whole monitoring period	Others
14	Project owner	Monthly Reading Records	Covering the whole monitoring period	Project participants
15	NCEPRI and Electric Measurement Centre of Zhangjiakou Power Grid Company	Calibration certificate for M1, M2, and M	Covering the monitoring period	Project participants
16	NCEPRI	Accreditation Certificate for NCEPRI	From 13/06/2012 to 12/06/2016, and 11/06/2016 to 10/06/2020	Project participants
17	Electric Measurement Centre of Zhangjiakou Power Grid Company	Accreditation Certificate for Electric Measurement Centre of Zhangjiakou Power Grid Company	From 13/02/2015 to 12/02/2018, and 12/02/2018 to 11/02/2021	Project participants
18	Power Grid Company	Power Purchase Agreement (PPA)	/	Others
19	Project owner	Operational Log	Covering the whole monitoring period	Project participants

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. Remaining FAR from validation and/or previous verifications

FAR ID	xx	Section no.	Date: DD/MM/YYYY
Description of FAR			
Project participant response		Date: DD/MM/YYYY	
Documentation provided by project participant			
DOE assessment		Date: DD/MM/YYYY	

Table 2. CL from this verification

CL ID	01	Section no.	E.7	Date: 02/09/2021
Description of CL				
Please provide more explanation regarding to the accreditation of calibration institution, especially the valid data of the accreditation.				
Project participant response				Date: 04/09/2021
The accreditation of calibration institutions have been provided and covering the calibration record.				
Documentation provided by project participant				
The accreditation of NCEPRI and Electric Measurement Centre of Zhangjiakou Power Grid Company				
DOE assessment				Date: 05/09/2021
By checking the accreditation of NCEPRI and Electric Measurement Centre of Zhangjiakou Power Grid Company, it is confirmed the calibration institute was accredited when performed calibration. CL01 is closed out.				

Table 3. CAR from this verification

CAR ID	xx	Section no.	Date: DD/MM/YYYY		
Description of CAR					
Project participant response		Date: DD/MM/YYYY			
Documentation provided by project participant					
DOE assessment		Date: DD/MM/YYYY			

Table 4. FAR from this verification

FAR ID	xx	Section No.	Date: DD/MM/YYYY		
Description of FAR					
Project participant response		Date: DD/MM/YYYY			
Documentation provided by project participant					
DOE assessment		Date: DD/MM/YYYY			

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
04.0	6 April 2021	Revision to: <ul style="list-style-type: none"> • Reflect the “Clarification: Regulatory requirements under temporary measures for post-2020 cases” (CDM-EB109-A01-CLAR).
03.0	31 May 2019	Revision to: <ul style="list-style-type: none"> • Ensure consistency with version 02.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN); • Make structural and editorial improvements.
02.1	11 January 2018	Editorial revision to correct the numbering of appendices in the instructions.
02.0	31 October 2017	Revision to align with the requirements of the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.

Decision Class: Regulatory

Document Type: Form

Business Function: Issuance

Keywords: project activities, verifying and certifying