Validation report form for renewal of crediting period for CDM project activities

(Version 02.0)

VALIDATION REPORT FOR RENEWAL OF CREDITING PERIOD (RCP)	
Title and UNFCCC reference number of the project activity	CGN Inner Mongolia Huitengliang Phase I Wind Farm Project (UNFCCC Registration No.:3303)
Number and duration of the next crediting period	The 2nd crediting period From 17/06/2017 to 16/06/2024
Version number of the validation report for RCP	01
Completion date of the validation report for RCP	03/01/2019
Version number of PDD to which this report applies	3.1
Project participant(s)	CGN Wind Power Co., Ltd. (P. R. China)
Host Party	People's Republic of China
Applied methodologies and standardized baselines	Sectoral scope(s): 01 Energy industries (renewable/non-renewable sources) ACM0002(Version 19.0), "Grid-connected electricity generation from renewable sources"
Mandatory sectoral scopes linked to the applied methodologies	1
Conditional sectoral scopes linked to the applied methodologies	-
Estimated annual average GHG emission reductions or net anthropogenic GHG removals in the next crediting period	106,666tCO_2e
Name and UNFCCC reference number of the DOE	Shenzhen CTI International Certification Co., Ltd (CTI) (UNFCCC Registration No.: E-0061)
Name, position and signature of the approver of the validation report for RCP	Zhou Lu, General Manager

SECTION A. Executive summary

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CGN Wind Power Co., Ltd. has commissioned Shenzhen CTI International Certification Co., Ltd (CTI) to validate the renewal of crediting period of the proposed CDM project activity "CGN Inner Mongolia Huitengliang Phase I Wind Farm Project" in P. R. China(UNFCCC Registration No.: 3303).This report summarizes the findings of the validation of the project, performed on the basis of UNFCCC criteria for the CDM, as well as criteria given to provide for consistent project operations, monitoring and reporting. UNFCCC criteria refer to Article 12 of the Kyoto Protocol, the CDM modalities and procedures, and the subsequent decisions by the CDM Executive Board, as well as the host country criteria.

The project is a newly built wind farm sited in the Southwest of Xilinhot City, Inner Mongolia Autonomous Region, the People's Republic of China. The total installed capacity of the proposed project is 50MW, consisting of 40 sets of wind turbines with capacity of 1,250kW for each. The electricity generated by the proposed project will be connected to North China Power Grid. The annual electricity supplied to the grid is 126,916MWh. The load factor is 29%. The expected operational lifetime of the project activity is 20 years. The objective of the project is to produce electricity with clean and renewable wind sources and to displace part of the electricity from fossil fuel-fired plants connected to North China Power Grid (NCPG). The project activity will generate greenhouse gas (GHG) emission reductions by avoiding CO_2 emissions from electricity generation by connected fossil fuel power plants.

The purpose of the validation of renewal of crediting period is to have an independent third party assess the validity of the project baseline that has opted for a renewal of crediting period. In particular, the project's baseline, monitoring plan, and the project's compliance with relevant UNFCCC criteria are validated in order to confirm that the project design, as documented, is sound and reasonable and meets the identified criteria. The validation of baseline is a requirement for all CDM projects seeking renewal of crediting period and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of certified emission reductions (CERs).

The validation scope is defined as an independent and objective review of the project design document (PDD), baseline update, monitoring plan and other relevant documents. The report is based on the assessment of the project design document under taken through stakeholder consultations, application of standard auditing techniques including but not limited to document reviews, follow-up interviews with project stakeholders, review of the applicable methodology and its underlying formulae and calculations.

In summary, it is CTI's opinion that the project activity "CGN Inner Mongolia Huitengliang Phase I Wind Farm Project" in P. R. China, as described in the PDD, version 3.1 of 02/01/2019, meets all relevant UNFCCC requirements for the renewal of crediting period. Hence, CTI requests the renewal of the crediting period of the project.

SECTION B. Validation team, technical reviewer and approver

B.1. Validation team member

No.	Role	Type of	Last name	First name	Affiliation	Involvement in

						Desk review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader	IR	Dai	Yue	Shenzhen	√	√	√	√

B.2. Technical reviewer and approver of the validation report for RCP

No.	Role	Type of resource	Last name	First name	Affiliation
1.	Technical reviewer	IR	Lin	Shunrong	Shenzhen
2	Approver	IR	Zhou	Lu	Shenzhen

SECTION C. Means of validation

C.1. Desk review

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The PDD and additional background documents related to the project design and baseline were submitted to the validation team for review. The document review in particular includes applicability of selected methodology, baseline determination, monitoring plan, emission reductions calculation. All documentations that were reviewed during the validation can be found in Appendix 3 of this validation report.

C.2. On-site inspection

Duration of on-site inspection				
No.	**Activity performed on-site**	**Site location**	**Date**	**Team member**
1.	- Inspection of project design - Confirmation of monitoring plan	Project site	28/11/2018	Dai Yue

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Liu	Yang	CGN Carbon Asset Management (Beijing) Co.,Ltd.	28/11/2018	1. Status of the project activity 2. Applicability of selected methodology 3. Baseline of the project 4. Emission reductions 5. Monitoring plan	Dai Yue
2	Han	Qing	CGN Wind Power Co., Ltd.	28/11/2018		Dai Yue
3	Li	Meng	CGN Wind Power Co., Ltd.	28/11/2018		Dai Yue

C.4. Sampling approach

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

Area of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	0	0	0
Application of baseline and monitoring methodology and standardized baseline	0	0	0
Validity of original baseline or its update	0	0	0
Estimated GHG emission reductions or net anthropogenic GHG removals	0	0	0
Validity of monitoring plan	0	0	0
Crediting period	0	0	0
Project participants	0	0	0
Others (please specify)	0	0	0
Total	0	0	0

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	Document review the PDD against the PDD form.
Findings	By checking the PDD, CTI confirmed that the CDM-PDD-FORM version 10.1has been applied correctly.
Conclusion	CTI considers the project description of the project activity contained in the PDD to be complete and accurate. CTI can confirm that the PDD has been completed in accordance with the latest version of PDD with relevant forms and guidance, and the information transferred to the PDD is materially the same as that in the registered PDD.

D.2. Application of baseline and monitoring methodology and standardized baseline

Means of validation	The assessment of the project's compliance with the applicability criteria of ACM0002 (Version 19.0)
Findings	(1) The Project is the installation of a wind power plant. (2) The Project is a Greenfield power plant and does not represent a capacity addition to an existing plant. (3) The project is the installation of a new grid-connected wind power plant, which doesn't involve either switching from fossil fuels to renewable energy source at the site of the project activity or biomass fired power generation. (4) The project is connected to the NCPG, and the geographical and system boundaries are clearly identified and information on the characteristics of the

	grid is available.
Conclusion	The validation team concluded that the project meets all applicability criteria of the methodology ACM0002 (Version 19.0).

D.3. Validity of original baseline or its update

Means of validation	According to the Clean Development Mechanism Project Standard (CDM PS), the demonstration of the validity of the original baseline or its update does not require a reassessment of the baseline scenario, but rather an assessment of the GHG emission reductions that would have resulted from that scenario. With reference to the methodology tool "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period".
Findings	**Step 1: Assess the validity of the current baseline for the next crediting period** The CDM PS requires assessing the impact of new relevant national and/or sectoral policies and circumstance on the baseline. The validity of the current baseline is assessed using the following sub-steps. **Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies** The current baseline remains the same as it was in the updated PDD. There has been not significant change in the relevant national and/or sectoral policies since the date of PDD registered till now, although national policies favour the development of renewable energy, electricity generated by fossil fuel-based plants dominates the electricity supply. Hence, it can be concluded that the current baseline still complies with all relevant policies. **Step 1.2: Assess the impact of circumstances** There are not new national/sectoral policies or circumstances that could affect the baseline scenario during the renewal of the crediting period. The validation team confirmed that the current baseline identified in the registered PDD is still valid for the second crediting period. **Step 1.3: Assess whether the continuation of the use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested** In absence of the project activity, similar amount of electricity would have been generated by the grid and the continuation of the use of current baseline equipment is considered technically possible. Not any investment needs to be undertaken by the project participants or the third party. Hence, this is not applicable to the project activity. **Step 1.4: Assessment of the validity of the data and parameters** According to the requirement of the "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period", if any of the data and parameters that were only determined at the start of the crediting period and not monitored during the crediting period and not valid anymore, the current baseline needs to be updated for the subsequent crediting period. The Designated National Authority (DNA) of China issued the notice "2017 Baseline Emission Factors for Regional Power Grid in China" on 20/12/2018, which

	was the latest grid data available for the project. The emission factors $EF_{grid,OM,y}$ and $EF_{grid,BM,y}$ of the NCPG the project connected have been updated according to the latest data available on 20/12/2018. For the wind project, the values of W_{OM} and W_{BM} also have been updated for the second crediting period as per the "Tool to calculate the emission factor for an electricity system "version 07.0. The parameters mentioned above were determined at the start of the first crediting period are not valid any more. Thus, the baseline emissions need to be updated for the second crediting period with the application of the new data available. **Step 2: Update the current baseline and the data and parameters** **Step 2.1: Update the current baseline** The baseline emissions have been updated for the second crediting period, without re-assessing the baseline scenario, based on the latest approved version (Version 19.0) of the methodology ACM0002 applicable to the project activity taking into account the sectoral policies and circumstances that are applicable at the time of request for renewal of the crediting period. **Step 2.2: Update the data and parameters** The "2017 Baseline Emission Factors for Regional Power Grid in China" was issued by DNA of China, which was calculated according to the "Tool to calculate the emission factor for an electricity system". The values of W_{OM} and W_{BM} are as per the "Tool to calculate the emission factor for an electricity system", version 07.0. The validation team confirmed that the applied data and parameters are latest available at the time of the project participant requesting renewal of the crediting period and valid for calculation of baseline grid emission factor of the second crediting period.
Conclusion	CTI confirmed that the baseline scenario for the project is continuation for the current practice, namely provision of equivalent amount of annual power output by the grid where the project is connected.

D.4. Estimated GHG emission reductions or net anthropogenic GHG removals

Means of validation	The GHG emission reduction calculations were checked in accordance with the formulae given in the baseline and monitoring methodology ACM0002 (Version 19.0).
Findings	(1) Baseline emissions The baseline is that, in the absence of the project activity, equivalent amount of electricity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources within the NCPG. Therefore, following ACM0002 (Version 19.0), the baseline emissions (BE_y in tCO_2e) are the product of the baseline emissions factor ($EF_{grid,CM,y}$ in tCO_2/MWh) times the net electricity supplied to the grid by the project (EG_y in MWh): $BE_y = EG_{facility,y} \times EF_{grid,CM,y} = EG_y \times EF_{grid,CM,y}$ **Determination of EG_y** The net electricity supplied to the grid by the project (EG_y) is determined as: $EG_y = EG_{export,y} – EG_{import,y}$ $EG_{export,y} = EG_{export,\ total} * EG_{project} / (EG_{project} + EG_{others})$ $EG_{import,y} = EG_{import,total}$ Where, $EG_{export,total}$ is total exported electricity to the grid based on the data metered by the

	main meter at the Huitengliang substation; $EG_{import,total}$ is total imported electricity from the grid based on the data metered by the main meter at the Huitengliang substation; $EG_{project}$ is the electricity generation of the proposed project based metered by separate meter at the project site; EG_{others} is the electricity generation of other wind farm projects based metered by other separate meters; EG_y is the net electricity supplied to the grid by the proposed project. 1. During the site visit, it is found that so far the project has not shared the same transformer, substation or transmission line with some other wind farms. So, $EG_{export,y} = EG_{export,\ total}$ and $EG_{import,y} = EG_{import,total}$ The net electricity supplied to the grid by the project is determined by the quantity of annual electricity delivered to the grid ($EG_{export,y}$, equals to $EG_{export,\ total}$) minus the electricity purchased from the grid ($EG_{import,y}$, equals to $EG_{import,total}$). The quantity of annual electricity delivered to the grid and the electricity purchased from the grid is monitored by the main meter that is bidirectional. The main meter is installed in the Huitengliang substation. 2. If the project has to share the same transformer, substation or transmission line with some other wind farms. The net electricity supplied to the grid by the project is determined by the quantity of annual electricity delivered to the grid ($EG_{export,y}$) minus the electricity purchased from the grid ($EG_{import,y}$). The $EG_{export,y}$ is determined as per the equation "$EG_{export,y} = EG_{export,\ total} * EG_{project} / (EG_{project} + EG_{others})$" by total exported electricity to the grid metered by the main meter at the Huitengliang substation, the electricity generation of the project metered by meter installed at the project site, and the electricity generation of other wind farm projects metered by other meters. The $EG_{import,y}$ is determined by total imported electricity from the grid metered by the main meter at the Huitengliang substation. **Determination of $EF_{grid,CM,y}$** The grid emission factor of ($EF_{grid,CM,,y}$) is determined *ex-ante* as a combined margin of the operating margin (OM) and build margin (BM) (the weighted average W_{OM} = 0.75, W_{BM} = 0.25 for the second crediting period) according to the "Tool to calculate the emission factor for an electricity system". $BE_y = EG_y \times EF_{grid,CM,y} = 126{,}916 \times 0.84045 = 106{,}666 tCO_2e$ (2) Project emissions Project emission is zero. Based on document review, the validation team regards this consideration is correct, and in line with methodology ACM0002 (Version 19.0). (3) No leakage is considered under the methodologyACM0002 (Version 19.0).
Conclusion	All assumptions and data used by the project participants are listed in the updated PDD (version 3.1) and/or supporting documents, including their references and sources. All documentation used by the project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the updated PDD. All values used in the updated PDD are considered reasonable in the context of the proposed CDM project activity. The baseline methodology has been applied correctly to calculate project emissions, baseline emissions, leakages and emission reductions. All estimates of the baseline, project and leakage emissions can be replicated using the data and parameter values provided in the updated PDD.

D.5. Validity of monitoring plan

Means of validation	Based on review of the documented procedures, interviews with relevant

	personnel, CTI evaluated the revised monitoring plan for the proposed project to ensure that it is based on the approved monitoring methodology that has been applied, and assessed: (1) Whether the monitoring plan contains all necessary parameters; (2) Whether the parameters are clearly described; (3) Whether the means of monitoring described in the plan complies with the requirements of the methodology; (4) Whether the means of implementation of the monitoring plan, including the data management and quality assurance and quality control procedures, are sufficient to ensure that the emission reductions can be reported ex post and verified.
Findings	The project applies the approved monitoring methodology ACM0002 (Version 19.0). According to the registered PDD (version 2.0) and updated PDD (version 3.1), the monitoring plan is as follows: During the site visit, it is found that so far the project has not shared the same transformer, substation or transmission line with some other wind farms. The net electricity supplied to the grid by the project is determined by the quantity of annual electricity delivered to the grid ($EG_{export,y}$, equals to $EG_{export, total}$) minus the electricity purchased from the grid ($EG_{import,y}$, equals to $EG_{import,total}$). The quantity of annual electricity delivered to the grid and the electricity purchased from the grid is monitored by the main meter that is bidirectional. The main meter is installed in the Huitengliang substation. The accuracy of the meters shall not exceed 0.5%. If the project has to share the same transformer, substation or transmission line with some other wind farms. The net electricity supplied to the grid by the project is determined by the quantity of annual electricity delivered to the grid ($EG_{export,y}$) minus the electricity purchased from the grid ($EG_{import,y}$). The $EG_{export,y}$ is determined as per the equation "$EG_{export,y} = EG_{export, total} * EG_{project} / (EG_{project} + EG_{others})$" by total exported electricity to the grid metered by the main meter at the Huitengliang substation, the electricity generation of the project metered by meter installed at the project site, and the electricity generation of other wind farm projects metered by other meters. The $EG_{import,y}$ is determined by total imported electricity from the grid metered by the main meter at the Huitengliang substation. The accuracy of the meters shall not exceed 0.5%. Through the on-site inspection of installed meters, interviewing with related personnel, and checking the connection diagram and PPA, CTI confirmed that the monitoring plan in the updated PDD (version 3.1) is in line with them the registered PDD (version 2.0), complies with the requirements of the methodology and reflects the real situation. The monitoring plan will give opportunity for real measurements of achieved emission reductions. CTI considers the project participants are capable to implement the monitoring plan: **(1) Parameters determined ex-ante** The following parameters are determined *ex-ante* and will be kept fixed during the second crediting period, which have been verified by CTI.

Data and parameter	Unit	Ex-ante value	Data source
Operating margin of	tCO_2/MWh	0.9680	The emission factors of

	NCPG ($EF_{Grid,OM,,y}$)			operating margin, build margin and combined margin are calculated ex-ante based on the most recent information available at the time of requesting for crediting period renewal
	Build margin of NCPG ($EF_{Grid,BM,,y}$)	tCO_2/MWh	0.4578	
	Combined margin emission factor of NCPG($EF_{Grid,CM,y}$)	tCO_2/MWh	0.84045	

Data and parameters indicated in B.6.2 of the PDD are used to calculate the grid emission factor.

(2) Parameters monitored ex-post

According to ACM0002 (Version 19.0), data and parameters monitored for the project are:

$EG_{export,total}$	Total exported electricity to the grid based on the data metered by the main meter at the Huitengliang substation
$EG_{import,total}$	Total imported electricity from the grid based on the data metered by the main meter at the Huitengliang substation
$EG_{project}$	The electricity generation of the proposed project based metered by separate meter at the project site
EG_{others}	The electricity generation of other wind farm projects based metered by other separate meters
EG_y	The net electricity supplied to the grid by the proposed project

(3) Management system and quality assurance

Detailed procedures have been elaborated in the updated PDD, including;

- The monitored data
- Installation of meters
- Calibration
- Quality control
- Data management system

These will be maintained and implemented to enable subsequent verification of emission reductions.

Conclusion	CTI confirmed that the project correctly applies the approved monitoring methodology ACM0002 (Version 19.0). The monitoring plan will give opportunity for real measurements of achieved emission reductions. CTI considers the project participants are capable to implement the monitoring plan.

D.6. Crediting period

Means of validation	CTI reviewed the PDD, and registration information in the UNFCCC website to confirm the validity of the second crediting period.
Findings	The project was registered on 17/06/2010 as CDM project and the first crediting period was from 17/06/2010 – 16/06/2017. The renewed second crediting period is from 17/06/2017 to 16/06/2024. As per the Para 272 of the PCP (version 02.0), the renewal request shall be submitted "*no earlier than 270 days prior to, but no later than one year after, the expiry of the crediting period*". With regard to this registered project activity, its renewal request is later than one year after the expiry of the crediting period, However, according to Para. 32 of EB's 100th meeting report, "*(iv) The grace period*

	for the submission of renewal request for the existing registered project activities whose crediting period has expired but has not been renewed (i.e. overdue for renewal) is to be by 31 December 2019.". Hence, its renewal request is later than the expiry of the crediting period, the project participants commissioned CTI to submit the renewal request within this grace period.
Conclusion	The validation team confirmed that the request for renewal of crediting period of the project meets the requirements of CDM PCP and EB's decision; therefore, the 2nd crediting period is valid.

D.7. Project participants

Means of validation	CTI reviewed the PDD, and registration information in the UNFCCC website to confirm the validity of project participants.
Findings	It is confirmed that the project participant from host Party China was still "CGN Wind Power Co., Ltd.". The DNA from China confirmed that the project assists in achieving sustainable development.
Conclusion	The validation team confirmed that the project participants indicted in the updated PDD are consistent with names in the UNFCCC website for the project.

D.8. Post-registration changes

Type of post-registration changes (PRCs)	**Confirmation** (Y/N)	**Validation report for PRCs**	
		Version	**Completion date**
Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines	NA	NA	NA
Corrections	NA	NA	NA
Change to the start date of the crediting period of the project activity	NA	NA	NA
Inclusion of a monitoring plan	NA	NA	NA
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools	NA	NA	NA
Changes to the project design	NA	NA	NA
Changes specific to afforestation and reforestation project activities	NA	NA	NA

SECTION E. Internal quality control

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The validation report underwent a technical review performed by a technical reviewer qualified in accordance with CTI's qualification scheme for CDM validation and verification.

SECTION F. Validation opinion

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Shenzhen CTI International Certification Co., Ltd (CTI) has performed a validation of renewal of crediting period of the project activity “CGN Inner Mongolia Huitengliang Phase I Wind Farm Project” in China (UNFCCC Registration No.:3303). The validation was performed on the basis of UNFCCC criteria for the Clean Development Mechanism as well as criteria given to provide for consistent project operations, monitoring and reporting.

The report is based on the assessment of the project design document undertaken through stakeholder consultations, application of standard auditing techniques including but not limited to document reviews, follow-up interviews with project stakeholders, review of the applicable methodology and its underlying formulae and calculations.

The project participant from host Party China were “CGN Wind Power Co., Ltd.” The DNA from China confirmed that the project assists in achieving sustainable development.

The project correctly applies the baseline and monitoring methodology ACM0002, Version 19.0, “Grid-connected electricity generation from renewable sources”.

The project results in reductions on-term benefits to the mitigation of climate change. The total emission reductions from the project are estimated to be on the average 106,666tCO_2e per year over the second renewable crediting period. The emission reductions forecast has been checked and it is deemed likely that the stated amount is achieved given that the underlying assumptions do not change.

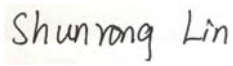
The monitoring plan provides for the monitoring of the project’s emission reductions. The monitoring arrangements described in the monitoring plan are feasible within the project design and it is CTI’s opinion that the project participants are able to implement the monitoring plan.

In summary, it is CTI’s opinion that the project activity “CGN Inner Mongolia Huitengliang Phase I Wind Farm Project” in China, as described in the PDD (version 3.1 dated 02/01/2019), meets all relevant UNFCCC requirements for the renewal of crediting period. Hence, CTI requests the renewal of the crediting period of the project.

Ms. Dai Yue

Team Leader

03/01/2019



Ms. Lin Shunrong

Technical Reviewer

03/01/2019

Appendix 1. Abbreviations

Abbreviations	Full texts
BM	Build Margin
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction(s)
CL	Clarification request
CM	Combined Margin
CO_2	Carbon dioxide
CO_2e	Carbon dioxide equivalent
CTI	Shenzhen CTI International Certification Co., Ltd
DNA	Designated National Authority
NCPG	North China Power Grid
EF	Emission Factor
FAR	Forward Action Request
FSR	Feasibility Study Report
GHG	Greenhouse gas(es)
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of approval
NDRC	National Development and Reform Commission
OM	Operating Margin
PCP	Clean Development Mechanism Project Cycle Procedure
PDD	Project Design Document
PPA	Power Purchase Agreement
PS	Clean Development Mechanism Project Standard
tCO_2e	Tonnes of CO_2 equivalents
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Clean Development Mechanism Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers

Ms. Dai Yue

Satisfies the requirements of competence management system of CTI Certification, and is hereby appointed as:

Qualification						
Status	GHG Auditor	Validator	Verifier	Team Leader	Technical Reviewer	Technical Expert
Date	√	√	√	√	-	√

Scope	Technical area
SS 1: Energy industries (renewable/non-renewable sources)	TA 1.2: Energy generation from renewable energy sources
SS 13: Waste handling and disposal	TA 13.1: Waste handling and disposal
	TA 13.2: Animal waste management

This appointment is valid for 3 years from its date of approval below and is bound by internal requirements of management system of the Certification Body of CTI.

Approved by:

Wu Lin

Wu LIN

Technical Competent Manager

Shenzhen, 01/01/2018

Ms. Lin Shunrong

Satisfies the requirements of competence management system of CTI Certification, and is hereby appointed as:

Qualification						
Status	GHG Auditor	Validator	Verifier	Team Leader	Technical Reviewer	Technical Expert
Date	√	√	√	√	√	√

Scope	Technical Area
SS 1: Energy industries (renewable/non-renewable sources)	TA 1.2: Energy generation from renewable energy sources
SS 14: Afforestation and reforestation	TA 14.1: Afforestation and reforestation
SS 15: Agriculture	TA 15.1: Agriculture

This appointment is valid for 3 years from its date of approval below and is bound by internal requirements of management system of the Certification Body of CTI.

Approved by:

Wu Lin

Wu LIN

Technical Competent Manager

Shenzhen, 01/01/2018

Appendix 3. Documents reviewed or referenced

No	Author	Title	References to the document	Provider
1	PP	Registered CDM-PDD for project activity "CGN Inner Mongolia Huitengliang Phase I Wind Farm Project", version 2.0	26/11/2009	PP
2	PP	CDM PDD for renewal of crediting period of project activity "CGN Inner Mongolia Huitengliang Phase I Wind Farm Project", version 3.1	02/01/2019	PP
3	PP	Emission reduction spreadsheet for renewal of crediting period of project activity, version 3.1	02/01/2019	PP
4	PP	CDM Monitoring Manual	-	PP
5	Grid company	Power Purchase Agreement (PPA) with grid company	2017&2018	PP
6	PP	Wind Turbine Purchase Agreement	24/03/2009	PP
7	PP	Diagram of power connection system of the Project	-	PP
8	PP	Wind turbines connection diagram	-	PP
9	PP	Nameplate of installed equipment of the project	-	PP
10	PP	Daily operational and maintenance records	2017&2018	PP
11	Inner Mongolia Electrical Power Investigate and Designing Institute	Feasibility Study Report	08/2008	PP
12	PP	Internal Training Records and Qualification Certificate of Operation Staff	2009	PP
13	PP	Construction service contract	27/03/2009	PP
14	BUREAU VERITAS	Validation report of project activity "CGN Inner Mongolia Huitengliang Phase I Wind Farm Project", Version 01	20/12/2009	PP
15	DNV Climate Change Services AS	Periodic Verification reports of project activity "CGN Inner Mongolia Huitengliang Phase I Wind Farm Project" Version 01	19/05/2011	PP
16	LRQA	Periodic Verification reports of project activity "CGN Inner Mongolia Huitengliang Phase I Wind Farm Project" Version 1.2	12/06/2012	PP
17	China Building Material Test & Certification Group Co., Ltd.	Periodic Verification reports of project activity "CGN Inner Mongolia Huitengliang Phase I Wind Farm Project" Version 1.0	27/09/2017	PP

18	China DNA.	LoA for CGN Wind Power Co., Ltd.	03/2009	PP
19	CGN Inner Mongolia Huitengliang Phase I Wind Farm Project	MoC for CGN Inner Mongolia Huitengliang Phase I Wind Farm Project	07/11/2018 31/10/2018 05/09/2018 18/07/2018 13/07/2018 08/07/2011 04/07/2011	PP
20	Ministry of Ecology and Environment of the P.R.China	2017 Baseline Emission Factors for Regional Power Grid in China	20/12/2018	Others
21	China Electric Power Yearbook Committee	China Electric Power Yearbook	2014-2016	Others
22	National Bureau of Statistics of China	China Energy Statistical Yearbook.	2014-2016	Others
23	IPCC	IPCC Guidelines for National Greenhouse Gas Inventories, Volume 2 Energy.	2006	Others
24	CDM Website	Registered information of project activity in the UNFCCC website: http://cdm.unfccc.int/Projects/DB/DNV-CUK1218548297.8/view	-	Others
25	National People's Congress	China Renewable Energy Law	01/01/2016	Others
26	Industry standard	L/T 448-2000 Technical administrative code of electric energy metering	-	Others
27	Industry standard	Verification Regulation of Electrical Energy Meter with Electronics (JJG 596-2012)	-	Others
29	EB	CDM validation and verification standard for project activities, version 02.0	-	Others
30	EB	CDM project standard for project activities, version 02.0.	-	Others
31	EB	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.	-	Others
32	EB	Baseline and monitoring methodology, ACM0002, Grid-connected electricity generation from renewable sources, Version 19.0	-	Others
33	EB	Tool to calculate the emission factor for an electricity system, version 07.0.	-	Others

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

TABLE 1. CL FROM THIS VALIDATION

CL ID	NA	**Section no.**	NA	**Date:** NA
Description of CL				
NA				
Project participant response				**Date:**
NA				
Documentation provided by project participant				
NA				
DOE assessment				**Date:**
NA				

TABLE 2. CAR FROM THIS VALIDATION

CAR ID	NA	**Section no.**	NA	**Date:**NA
Description of CAR				
NA				
Project participant response				**Date:**
NA				
Documentation provided by project participant				
NA				
DOE assessment				**Date:**
NA				

TABLE 3. FAR FROM THIS VALIDATION

FAR ID	NA	**Section no.**	NA	**Date:** NA
Description of FAR				
NA				
Project participant response				**Date:**
NA				
Documentation provided by project participant				
NA				
DOE assessment				**Date:**
NA				

Document information

Version	*Date*	*Description*
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: Renewal of crediting period
Keywords: crediting period, project activities, validation report