




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

**(Version 03.0)**

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

**BASIC INFORMATION**

<b>Title and UNFCCC reference number of the project activity</b>	Salkhit Wind Farm UNFCCC ID: 5977
<b>Number and duration of the next crediting period</b>	CP-No.: 2 24/06/2020 to 23/06/2027 (incl. both days)
<b>Version number of the validation report</b>	1.0 TN P-No.: 8003015659 - 19/124
<b>Completion date of the validation report</b>	19/06/2020
<b>Version number of PDD to which this report applies</b>	5
<b>Project participants</b>	Clean Energy LLC (Mongolia) Swedish Energy Agency (Buyer)
<b>Host Party</b>	Mongolia
<b>Applied methodologies and standardized baselines</b>	ACM0002: Grid-connected electricity generation from renewable sources (Version 20.0) Standardized baselines: N/A
<b>Mandatory sectoral scopes</b>	Scope 1 : / Technical Area: 1.2
<b>Conditional sectoral scopes, if applicable</b>	N/A
<b>Estimated amount of annual average GHG emission reductions or GHG removals by sinks in the next crediting period</b>	190,405 tCO <sub>2</sub> e
<b>Name and UNFCCC reference number of the DOE</b>	TÜV NORD CERT GmbH UNFCCC reference number: E-0022
<b>Name, position and signature of the approver of the validation report</b>	 Stefan Winter Final Approval

**SECTION A. Executive summary**

Clean Energy LLC has commissioned the TÜV NORD JI/CDM Certification Program to carry out validation of the request for renewal of crediting period (RCP) for the project:

**“Salkhit Wind Farm”**

with regard to the relevant requirements for CDM project activities.

The project has been registered on 30/03/2012 under the UNFCCC registration No. 5977. The PPs have chosen a 7 year crediting period which the first crediting period has started on 24/06/2013 and expired on 23/06/2020. According to EB meeting report of 100 meeting<sup>/EBMR/</sup>, “Notification of renewal intention from project participants is no longer required, and therefore there is no longer a penalty of “unclaimable period” of CERs for late notification”, and “A DOE shall submit a renewal request to the secretariat no earlier than 270 days prior to, but no later than one year after, the expiry of the crediting period, otherwise the renewal is no longer possible for the project activity”.

Hence, PP selected TÜV NORD to conduct the RCP validation no earlier than 270 days prior to, but no later than one year after the expiry of the 1<sup>st</sup> crediting period, which is confirmed as in line with the EB requirement for the RCP.

The objective of this RCP validation is the review by an independent entity whether the project is still compliant with the applicable sections of:

- the CDM project standard<sup>/PS/</sup>
- the CDM project cycle procedure<sup>/PCP/</sup>
- the updated applied UNFCCC Methodology ACM0002: Grid-connected electricity generation from renewable sources (Version 20.0)<sup>/ACM0002/</sup> and
- the methodological tool “Tool to calculate the emission factor for an electricity system” (version 07.0)<sup>/TEF/</sup>
- the methodological tool “Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation (version 03.0)<sup>/BP/LE/</sup>
- the methodological tool “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)<sup>/TVB/</sup>.

As per the requirements of the CDM Validation and Verification Standard<sup>/VVS/</sup>, the validation is based on

- the registered PDD<sup>/PDD-R/</sup>,
- the updated version of the PDD (including revisions of the monitoring plan)<sup>/PDD/</sup>,
- the updated emission reduction calculation spread sheet<sup>/XLS/</sup>,
- further supporting documents made available to the validator as well as information collected through performing interviews.

Furthermore publicly available information, such as the host country legislation, was considered as far as available and required.

The project reduces GHG emissions due to installation of a newly built wind power project with total installed capacity of 49.6 MW (31x1.6 MW), which supplies the power energy to Central Energy System (CES) and contributes to the reduction of GHG emission by replacing part of electricity of CES which is dominated by fossil fuel-fired power plants. Salkhit wind farm was the first grid connected wind farm in Mongolia as stated in the registered PDD<sup>/PDD-R/</sup>.

Details of the project location are given in table A-1 below:

**Table A-1: Project Location**

No.	Project Location
Host Country	Mongolia
Region:	Salkhit mountain
Project location address:	Tsagduult and Shar Huviin Nuruu, Sereglen Soum center, Tuv Aimag

Latitude/ Longitude	ID	Latitude N	Longitude E
	1	47°29'12.191"	107°9'20.652"
	2	47°31'23.887"	107°6'50.008"
	3	47°33'6.894"	107°4'32.148"
	4	47°35'44.204"	107°8'53.200"
	5	47°36'41.560"	107°10'45.020"
	6	47°37'2.440"	107°10'48.860"
	7	47°36'33.006"	107°12'34.170"
	8	47°35'29.480"	107°15'17.090"
	9	47°32'46.518"	107°17'25.532"
	10	47°32'45.799"	107°17'20.265"
	11	47°32'30.400"	107°17'29.000"

Basic technical details of the project are summarized in table A-2.

**Table - A-2:** Technical data of the project activity

Parameter	Unit	Value
<b>Wind turbine generator</b>		
Model	-	GE1.6xle 82.5
Quantity	-	31
Rated capacity	kW	1,600
Rotor diameter	m	82.5
Hub height	m	80
Lifetime	years	25
Manufacturer	-	GE

## SECTION B. Validation team, technical reviewer and approver

### B.1. Validation 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/Doc review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader (also validator)	EI	ZHAO	Xuejiao	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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

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	IR	Stöhr	Christina	TÜV NORD CERT GmbH
2.	Approver	IR	Stefan	Winter	TÜV NORD CERT GmbH

## SECTION C. Means of validation

### C.1. Desk/document review

During the desk/document review all documents initially provided by the client and publicly available documents relevant for the validation were reviewed. The main documents are listed below:

- the last revision of the PDD including the monitoring plan<sup>/PDD/</sup>,
- the last revision of the validation report<sup>/VAL/</sup>,
- the emission reduction calculation spreadsheet<sup>/XLS/</sup>.

Other supporting documents, such as publicly available information on the UNFCCC website and background information were also reviewed.

### C.2. On-site inspection

Duration of on-site inspection: N/A				
No.	Activity performed on-site	Site location	Date	Team member

The on-site inspection did not take place due to the below reason:

According to the paragraphs 30 and 31 of CDM Validation and Verification Standard for project activities (version 02.0)<sup>/VVS/</sup>,

“30. It is mandatory for the DOE to conduct an on-site inspection at validation for the proposed CDM project activity if:

(a) Its estimated annual average of greenhouse gas (GHG) emission reductions or net anthropogenic GHG removals is more than 100,000 t CO<sub>2</sub> eq; or

(b) There is pre-project information that is relevant to the requirements for registration of the project activity and may not be traceable after the registration.”

“31. For cases that are not referred to in paragraph 30 above, it is optional for the DOE to conduct an on-site inspection at validation. If the DOE does not conduct an on-site inspection as a means of validation, it shall describe the alternative means used and justify that they are sufficient for the purpose of validation.”

Via checking the registered PDD, it is confirmed that the proposed project is a green field project, there is no pre-project information before the project, the estimated annual average of greenhouse gas (GHG) emission reductions or net anthropogenic GHG removals of the project activity is more than 100,000 tCO<sub>2</sub> eq<sup>/PDD/</sup> which means an on-site inspection at validation is mandatory for the DOE. However, since start of year 2020, the COVID-19 is pandemic in the whole world, UNFCCC has issued “an announcement on mandatory site visits by DOEs” that CDM Executive Board agrees to relax mandatory site visits by DOEs for a period of three months (23 March to 23 June 2020) due to COVID-19 pandemic.

Upon this decision, TUV NORD decided to not conduct the site inspection as below reasons,

TUV NORD signed the contract with the client in Dec 2019, there was no information of the COVID-19 at that time, so the expected validation timeline stated in the contract was that RCP validation would be finished within three to four months as usually this kind of RCP validation need the similar time. However, when the validator was allocated in Jan 2020 to the Chinese team, the COVID-19 is pandemic in China and spread to the whole world from Feb 2020. Thus the site visit could not be arranged due to all the country have limitation for the entry.

Thus, by considering the strict timeline in the validation contract, TUV NORD could not postpone the validation work just waiting for the possibility of the site inspection, due to till end of April of 2020, there was no any signal that this pandemic will be soon ending.

Hence, site visit can not be postponed based on the contract. TÜV NORD has not conducted an on-site visit, which is in conformity with EB decision agrees to relax mandatory site visits by DOEs.

The alternative means used and justify for the purpose of validation as per the section 7.1.3 of the VVS are demonstrated as follow:

During the desk review, the relevant documents, including the registered/approved PDD<sup>/PDD/</sup> and corresponding validation reports<sup>/VAL/</sup> for the 1<sup>st</sup> crediting period, the picture of nameplate of the main equipment<sup>/PHT/</sup>, the purchase contract of the main equipment<sup>/TP/</sup>, the picture of monitoring meters<sup>/PHT/</sup>,

the latest version Power Purchase Agreement<sup>/PPA/</sup> and other relevant background documents were provided and assessed.

The validation team has carried out e-mail interviews with project implementer in order to assess the information included in the project documentation and to gain additional information regarding the compliance of the project with the relevant criteria applicable for RCP. Also a video about the wind farm construction and implementation was requested by TÜV NORD and provided by the PP, in the video, the whole wind power plants including wind turbines, onsite substation, central control room, monitoring meter etc are shown clearly to assess that the project is implemented as per the PDD design.

Furthermore, as this is the RCP validation, the project description in the PDD for the renewable crediting period was already verified from documents for the validation and verification during 1<sup>st</sup> crediting period. Validation team confirms the project design, construction, operation and monitoring plan were not changed for 2<sup>nd</sup> crediting period. And the baseline scenario information also can be confirmed as it was defined by the applied methodology ACM0002 version 20.0.

The validation report<sup>/VAL/</sup> was checked, comparing the relevant evidence<sup>/PHT/</sup> and interview with the PP representative through emails<sup>/11/</sup>, TÜV NORD has confirmed that the project is implemented in line with the PDD<sup>/PDD-R/</sup> and the monitoring system is in line with the latest approved PDD<sup>/PDD/</sup> and the latest version Power Purchase Agreement<sup>/PPA/</sup>. There is no change of the project design, construction, operation and monitoring plan.

### C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Tumen-Ulzii <sup>/11/</sup>	Enkhsaikhan	Clean Energy LLC/Salkhit Wind Power Plant Operations Manager	17/03/2020 ~ 21/04/2020	<ul style="list-style-type: none"> <li>- Project history</li> <li>- Monitoring and measurement equipment and system</li> <li>- Remaining lifetime of equipment</li> <li>- Crediting period</li> <li>- Baseline study assumptions</li> <li>- Roles &amp; responsibilities of the project participants</li> <li>- National legislation</li> <li>- ER calculation</li> <li>- Ex-ante parameters</li> <li>- Changes of parameters</li> </ul>	Zhao Xuejiao

### C.4. Sampling approach

N/A

### 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	3	0
Application and selection of methodologies and standardized baselines	0	2	0
Validity of original baseline or its update	0	1	0
Estimated emission reductions or net anthropogenic removals	0	2	0
Validity of monitoring plan	0	1	0
Crediting period	0	1	0
Project participants	0	0	0
Post-registration changes	0	1	0
Others (please specify)	0	0	0
<b>Total</b>	<b>0</b>	<b>11</b>	<b>0</b>

**SECTION D. Validation findings****D.1. Compliance with PDD form**

<b>Means of validation</b>	<p>A draft revised PDD was submitted to the validation team by the project participants. By means of the UNFCCC website it has been checked whether the latest applicable PDD template CDM-PDD-FORM has been used.</p> <p>Further it has been checked whether the latest instructions for filling out the PDD template have been followed. Every section has been checked against the respective guidance.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /PDD/</li> <li>• /PDD-T/</li> <li>• /unfccc/</li> </ul>		
<b>Findings</b>	<input type="checkbox"/>	The latest reporting template CDM-PDD-FORM as listed on the UNFCCC website has been used for the PDD.	
	<input type="checkbox"/>	The latest instructions for filling out the PDD have been followed. No adverse finding has been identified in the course of this validation.	
	<input checked="" type="checkbox"/>	<p>The respective requirements have widely been complied with; however; the following issues needed to be addressed in this context:</p> <p>- CAR 1, CAR 2, CAR 3</p>	
<b>Conclusion</b>	<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.	
	<input checked="" type="checkbox"/>	<p>The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</p> <p>The project participants used the latest version of the PDD form for the updated PDD than the version of the PDD form of the registered PDD.</p> <p>It is confirmed that the information transferred to the later version of the PDD form is materially the same as that in the registered PDD.</p>	

**D.2. Application and selection of methodologies and standardized baselines**

<b>Means of validation</b>	<p>By means of comparison of the PDD with</p> <ul style="list-style-type: none"> <li>(i) the applied CDM methodology</li> <li>(ii) all applicable CDM Meth tools and</li> <li>(iii) if applicable, a standardized baseline</li> </ul> <p>the verification team has checked whether the updated PDD is in compliance with the requirements of the applied methodology&amp; tools.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> <li>• /PDD/</li> <li>• /ACM0002/</li> <li>• /TVB/</li> <li>• /BPLE/</li> <li>• /TEF/</li> <li>• /TRLE/</li> <li>• /unfccc/</li> </ul>																							
<b>Findings</b>	<input type="checkbox"/>	The updated PDD is completely in accordance with the approved methodology applicable for the CDM project																						
	<input checked="" type="checkbox"/>	<p>The breakdown of PDD accordance of the referenced tools is as follows:</p> <table border="1"> <tr> <td rowspan="3">1</td><td>Title (of the tool)</td><td colspan="2">Tool to calculate the emission factor for an electricity system<sup>TEF/</sup></td></tr> <tr> <td>Version</td><td colspan="2">07.0</td></tr> <tr> <td>PDD compliance</td><td colspan="2"> <input checked="" type="checkbox"/> full compliance  <input type="checkbox"/> findings have been raised  <input type="checkbox"/> N/A (for MP) </td></tr> <tr> <td rowspan="3">2</td><td>Title (of the tool)</td><td colspan="2">Assessment of the validity of the original/current baseline and update the baseline at the renewal of the crediting period<sup>TVB/</sup></td></tr> <tr> <td>Version</td><td colspan="2">03.0.1</td></tr> <tr> <td>PDD compliance</td><td colspan="2"><input checked="" type="checkbox"/> full compliance</td></tr> </table>			1	Title (of the tool)	Tool to calculate the emission factor for an electricity system <sup>TEF/</sup>		Version	07.0		PDD compliance	<input checked="" type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input type="checkbox"/> N/A (for MP)		2	Title (of the tool)	Assessment of the validity of the original/current baseline and update the baseline at the renewal of the crediting period <sup>TVB/</sup>		Version	03.0.1		PDD compliance	<input checked="" type="checkbox"/> full compliance	
1	Title (of the tool)	Tool to calculate the emission factor for an electricity system <sup>TEF/</sup>																						
	Version	07.0																						
	PDD compliance	<input checked="" type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input type="checkbox"/> N/A (for MP)																						
2	Title (of the tool)	Assessment of the validity of the original/current baseline and update the baseline at the renewal of the crediting period <sup>TVB/</sup>																						
	Version	03.0.1																						
	PDD compliance	<input checked="" type="checkbox"/> full compliance																						

			<input type="checkbox"/> findings have been raised <input type="checkbox"/> N/A	
	3	Title (of the tool)	Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation	
		Version	03.0	
		PDD compliance	<input checked="" type="checkbox"/> full compliance <input type="checkbox"/> findings have been raised <input type="checkbox"/> N/A	
	<input type="checkbox"/>	The breakdown of PDD accordance of the applicable SB is as follows:		
		1	Title (of the SB)	n/a
			Version	-
			MP compliance	
	<input checked="" type="checkbox"/>	In this context the following CARs, CLs, FARs have been raised: - CAR 4, CAR 5		
	<b>Conclusion</b>	<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.	
<input checked="" type="checkbox"/>		The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.		
For both the methodology and applicable tools it is confirmed that all applicable references in the updated PDD are correct and all applicable tools have been correctly identified in the updated PDD, and in accordance with the applicable requirements in the Project standard. All applicability conditions of the updated methodology and grid emission factor tool are still met.				

### D.3. Validity of original baseline or its update

<b>Means of validation</b>	<p>In order to check the validity of the original baseline or its updates the validation team has applied the following stepwise approach:</p> <p><b>Step 1: Assessment of the validity of the current baseline for the next crediting period</b></p> <p>Step 1.1: Check of assessment of compliance of the current baseline with relevant mandatory national and/or sectoral policies</p> <p>Step 1.2: Check of assessment of the impact of circumstances</p> <p>Step 1.3: Check of assessment of whether the continuation of use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested.</p> <p>Step 1.4: Check of assessment of the validity of the data and parameters</p> <p><b>Step 2: Check of the update to the current baseline and the data and parameters</b></p> <p>Step 2.1: Check of the update of the current baseline</p> <p>Step 2.2: Check of the update of the data and parameters</p> <p>All necessary documentation has been either provided by the client or the validation team has acquired appropriate information required for assessment independently. For a detailed list of reviewed documentation please refer to Appendix 3.</p>
<b>Findings</b>	<p><b>Step 1: Check of assessment to the validity of the current baseline for the next crediting period</b></p> <p>The baseline scenario of the project as per the registered PDD can be described as follows:</p> <p><i>"Electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system"</i></p>

The baseline is still in line with the latest version of the applied methodology. As per project standard this scenario is not subject to re-assessment and is thus deemed to be applicable for the next crediting period.

However the baseline itself i.e. the calculation of baseline emissions has been checked regarding the continued validity of underlying assumptions and parameter values. The assessment steps are described in the following subsections.

*Step 1.1: Check of assessment to compliance of the current baseline with relevant mandatory national and/or sectoral policies*

The baseline of the PDD has been assessed to be compliant with the national legislation and policies applicable for the project activity at the time of validation. During the first crediting period the PP has frequently reviewed the legal requirements and policies relevant for the baseline of the project. On the basis of this PP has arrived at the conclusion that the baseline is still in line with all applicable legislations and policies.

The validation team has independently reviewed the host country legislation as well as current policies, such as

- Mongolia DNA Website<sup>/dna/</sup>
- Mongolia Statistical Indicators of Energy Sector<sup>/NEF/</sup>

On the basis of this analysis the validation team confirms that the baseline is still in compliance with the currently applicable national legislation and other national and/or sectoral policies. Therefore the baseline did not need to be adjusted due to changes in this respect.

*Step 1.2: Check of assessment to the impact of circumstances*

As the baseline scenario might be affected by changed circumstances, e.g. market conditions, market prices etc. the PP has checked the baseline against such changes that have occurred since validation. This is of special importance if the baseline scenario is the continuation of the pre-project scenario.

In the current case no such changes have been identified by the project participants as

- changed market conditions are not likely to impact the PA.

The validation team has independently checked whether there are changes in circumstances which have an impact on the baseline, such as searching the website of national government<sup>/dna/</sup>, verifying the Power Purchase Agreement<sup>/PPA/</sup> and interview with the PP<sup>/I1/</sup>.

No such changes have been identified and thus it is deemed appropriate not to revise the baseline due to changes in circumstances.

*Step 1.3: Check of assessment to whether the continuation of use of current baseline equipment(s) or an investment is the most likely scenario for the crediting period for which renewal is requested.*

This is a greenfield project, there is no baseline equipment which is to be exchanged. Furthermore no other reasons for a possible investment – other than possible legal requirements – have been identified.

Thus the validation team confirms the conclusion that no changes to the baseline are required due to the likeliness of investments in equipment which impacts the baseline.

*Step 1.4: Check of assessment of the validity of the data and parameters*

The parameters which have been determined ex-ante in the registered PDD are still valid. Only the following change was required:

Parameter	Previous value	Updated value	Reference
EF <sub>grid,CM,y</sub> tCO <sub>2</sub> /MWh	1.061	1.130	Yearly Bulletin from the Energy Regulatory Authority, 2015-2019 <sup>/NEF/</sup>



	The change has been appropriately considered in the updated PDD.	
	<b>Step 2: Check of the update to the current baseline and the data and parameters</b>	
	<b>Step 2.1: Check of the update to the current baseline</b> As per step 1 above, it is confirmed that the current baseline does not need to be updated.	
	<b>Step 2.2: Check of the update to the data and parameters</b> Refer to results of step 1.4.	
<b>Conclusion</b>	<input checked="" type="checkbox"/>	The respective requirements have widely been complied with; however; the following issues needed to be addressed in this context: - CAR 6
	<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	The original baseline scenario of the project as per the registered PDD is still valid for the 2 <sup>nd</sup> crediting period. Most of the data and parameters determined ex-ante are still valid except for the emission factor $EF_{grid,CM,y}$ , the emission factor $EF_{grid,CM,y}$ was re-determined for the baseline emission calculation.	

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

<b>Means of validation</b>	<p>For validation of the estimated GHG emission reductions the client has provided the validation team with the following documentation:</p> <ul style="list-style-type: none"> <li>- Updated PDD<sup>/PDD/</sup></li> <li>- XLS spreadsheet<sup>/XLS/</sup>.</li> </ul> <p>Further, the validation team has downloaded from the UNFCCC website the applicable version of the CDM methodology and all referenced methodological tools<sup>/unfccc/</sup>.</p> <p>Via verify the PDD, it is confirmed the calculation of ERs is done as per the applied methodology (ACM0002 ver. 20.0) and "Tool to calculate the emission factor for an electricity system" (version 07.0)<sup>/TEF/</sup> with follow steps listed below.</p> <p><b>1) Baseline emissions <math>BE_y</math>:</b></p> <p>According to the applied methodology, baseline emissions include only CO<sub>2</sub> emissions from electricity generation in power plants that are displaced due to the project activity. The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the addition of new grid-connected power plants.</p> <p>Hence, Baseline emissions <math>BE_y</math> (tCO<sub>2</sub>e) are to be calculated as follows:</p> $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ <p>Where:</p> <p><math>BE_y</math> = Baseline emissions in year y (t CO<sub>2</sub>)</p> <p><math>EG_{PJ,y}</math> = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh)</p> <p><math>EF_{grid,CM,y}</math> = Combined margin CO<sub>2</sub> emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (t CO<sub>2</sub>/MWh)</p> <p><b>Calculation of <math>EG_{PJ,y}</math></b></p>
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Via checking the registered PDD, it is confirmed that the project activity is a greenfield power plant, then according to the methodology,

$$EG_{PJ,y} = EG_{facility,y}$$

Where:

$EG_{facility,y}$  = Quantity of net electricity generation supplied by the project plant/unit to the grid in year  $y$  (MWh)

#### Calculation of $EG_{grid,CM,y}$

In addition, as per the applied methodology (ACM0002 ver. 20.0) and “Tool to calculate the emission factor for an electricity system” (version 07.0)<sup>TEF/</sup>, the  $EF_{grid,CM,y}$  is calculated as below steps,

The updated PDD was submitted to DOE on 16/03/2020, data for year 2017, 2018 and 2019 was used to calculate the  $EF_{grid,CM,y}$  which is verified as the latest valid available data at the time of the validation for the crediting period renewal.

Baseline emission factor  $EF_{grid,CM,y}$  is determined by follow sub-steps according to the “Tool to calculate the emission factor for an electricity system” (version 07.0).

#### Sub-Step 1. –Identify the relevant electricity systems.

Central Energy System (CES), which the project directly connected, is selected as the electric power system of the Project.

According to the Mongolian DNA guidance, the Central Energy System is not connected to other systems in the host country. The project electricity system is connected to other grids in other host countries (Russia and China) and electricity transfers from the connected systems are taken into account. Electricity transfers from connected electricity system to the project electricity system are defined as electricity imports and electricity transfers to connected electricity systems are defined as electricity exports. For imports from connected electricity systems located in Annex-I country(ies), the emission factor is 0 tonnes CO<sub>2</sub> per MWh. There are net imports from Russia, and no transfers to/from China.

For the purpose of determining the build margin emission factor, the spatial extent is limited to the project electricity system, as there are no recent or likely future additions to transmission capacity that would enable significant increases in imported electricity; the data in Annex 3 shows that imports are relatively small and have not changed significantly in the period covered. Therefore, the transmission capacity is not considered a build margin source.

Electricity exports are not subtracted from electricity generation data used for calculating and monitoring the electricity emission factors.

The validation team verified the data sources published by Energy Regulatory Authority<sup>/NEF/</sup> and confirms that the identified electric power systems are appropriate.

#### Sub-Step 2.-Choose whether to include off-grid power plants in the project electricity system.

Option I: Only grid power plants are included in the calculation.

#### Sub-Step 3.-Select a method to determine the operating margin (OM).

For the calculation of the OM emission factor, the simple OM emission factor calculation method is selected because there is currently no generation from low-cost/must-run generation during the latest 5 years (2015-2019). And the ex-ante option is selected for the calculation of the simple OM emission factor.

The validation team has checked the Statistical Indicators of Energy Sector, Yearly Bulletin from the Energy Regulatory Authority, 2015-2019<sup>/NEF/</sup> and confirmed the demonstration is correct. Therefore, the selection of simple OM emission factor calculation method is reasonable.

**Sub-Step 4.-Calculate the operating margin emission factor according to the selected method.**

Since the fuel consumption and the total electricity generation of the thermal plants connected to the grid are available thus Option A is chosen. As per the tool, the calculation is as below,

*Option A - Calculation based on average efficiency and electricity generation of each plant*

Under this option, the simple OM emission factor is calculated based on the net electricity generation of each power unit and an emission factor for each power unit, as follows:

$$EF_{\text{grid,OMsimple},y} = \sum m (EG_{m,y} * EF_{EL,m,y}) / \sum m EG_{m,y}$$

For this approach (simple OM) to calculate the operating margin, the subscript m refers to the power plants/units delivering electricity to the grid, not including low-cost/must-run power plants/units and including electricity imports to the grid. Electricity imports should be treated as one power plant m. The renewable crediting period is adopted for the Project and the OM will be fixed for the second crediting period as the ex-ante option is selected for the calculation of the simple OM emission factor.

The renewable crediting period is adopted for the Project and the OM will be fixed for the second crediting period as the ex-ante option is selected for the calculation of the simple OM emission factor.

The data are obtained from the "Statistical Indicators for Energy Sector-2019"<sup>NEF/</sup> issued by Energy Regulatory Authority which are the latest three years data. The emission factors of the fuels adopted are obtained from the IPCC default value<sup>IPCC/</sup>.

The data source are checked as reasonable and the validation team confirms that the calculation is able to be replicated using the data and parameter provided in the PDD.

**Sub-Step 5.- Calculate the build margin (BM) emission factor.**

Considering data vintage, the project participants chose the ex-ante option to calculate the build margin (BM) emission factor.

The build margin emissions factor is the generation-weighted average emission factor (tCO<sub>2</sub>/MWh) of all power units m during the most recent year y for which electricity generation data is available, calculated as follows:

$$EF_{\text{grid,BM},y} = \sum m (EG_{m,y} \times EF_{EL,m,y}) / \sum m EG_{m,y}$$

As the sample group of power units m used to calculate the build margin only includes a single power station, Power station-4, hence

$$EF_{\text{grid,BM},y} = EF_{EL,m,y}$$

As per the tool, Option A2 is applied, then

$$EF_{EL,m,y} = EF_{CO2,m,i,y} \times 3.6 / \eta_{m,y}$$

Therefore BM emission factor of the power grid is calculated by divide the  $EF_{CO2,m,i,y}$  (Average CO<sub>2</sub> emission factor of fuel type i used in power unit m in year y derived from IPCC) with  $\eta_{m,y}$  (Average net energy conversion efficiency of power unit m in year y (ratio), using the default values provided in Annex 1 of the EF Tool, i.e. 37% for sub-critical coal-fired plant).

The validation team hereby confirms that the data source and approaches taken are deemed reliable and the calculation is appropriate.

**Sub-Step 6.-Calculate the combined margin (CM) emissions factor.**

According to the "Tool to calculate the emission factor for an electricity system" (version 07.0)<sup>TEF/</sup>, the default weights:  $\omega_{OM}=0.75$  for Operating Margin and  $\omega_{BM}=0.25$  for Build Margin in the second crediting period of wind power projects are adopted.

	<p>In accordance to the "Tool to calculate the emission factor for an electricity system", the Simple OM emission factor (<math>EF_{grid,OM,y}</math>) of CES is calculated ex-ante as 1.212 tCO<sub>2</sub>e/MWh. Similarly, the build margin emission factor (<math>EF_{grid,BM,y}</math>) of the CES is calculated ex-ante as 0.885 tCO<sub>2</sub>e/MWh. Hence,</p> $EF_{grid,CM,y} = 1.212 \text{ tCO}_2\text{e/MWh} \times 0.75 + 0.885 \text{ tCO}_2\text{e/MWh} \times 0.25$ $= 1.130 \text{ tCO}_2\text{e/MWh}$ <p>Therefore the combined baseline emission factor is determined ex-ante and will remain fixed during the second crediting period.</p> <p><b>2) Project emissions <math>PE_y</math>:</b></p> <p>The project is a windpower project. Hence, according to the methodology ACM0002 version 20.0, <math>PE_y = 0</math>.</p> <p><b>3) Leakage emissions <math>LE_y</math>:</b></p> <p>As per the methodology ACM0002 version 20.0, no leakage is to be considered.</p> <p><b>4) Emission reductions <math>ER_y</math>:</b></p> $ER_y = BE_y - PE_y$ $= BE_y - 0$ $= BE_y$ $= EF_{grid,CM,y} \times EG_{facility,y}$ $= 1.130 \text{ tCO}_2\text{e/MWh} \times 168,500 \text{ MWh/yr}$ $= \mathbf{190,405 \text{ tCO}_2\text{e/yr}}$ <p>The estimated amount of GHG emission reductions of the project is <b>1,332,835 tCO<sub>2</sub>e</b> during the second crediting period (7 years) from 24/06/2020 to 23/06/2027, resulting in estimated average annual emission reductions of <b>190,405 tCO<sub>2</sub>e</b>.</p> <p>The ER calculation sheet has been duly checked. Further it has been checked whether the results have been correctly transferred to the updated PDD for determination of ex-ante ER. The validation team has further checked the updated PDD against the latest version of the applicable methodology incl. the referenced methodological tools for consistency. Special focus was laid on the changes against the previous crediting period.</p>				
<b>Findings</b>	<table border="1"> <tr> <td data-bbox="414 1305 478 1451"><input type="checkbox"/></td> <td data-bbox="478 1305 1436 1451">The calculation of ERs is done as per the applied methodology (ACM0002 version 20.0). The calculation in the Excel spreadsheet and the corresponding calculation tables in the PDD have been checked and no mistakes have been identified. The estimation of emission reductions for the 2<sup>nd</sup> crediting period is deemed plausible and conservative.</td> </tr> <tr> <td data-bbox="414 1451 478 1547"><input checked="" type="checkbox"/></td> <td data-bbox="478 1451 1436 1547">The respective requirements have widely been complied with; however; the following issues needed to be addressed in this context: - CAR 7, CAR 8</td> </tr> </table>	<input type="checkbox"/>	The calculation of ERs is done as per the applied methodology (ACM0002 version 20.0). The calculation in the Excel spreadsheet and the corresponding calculation tables in the PDD have been checked and no mistakes have been identified. The estimation of emission reductions for the 2 <sup>nd</sup> crediting period is deemed plausible and conservative.	<input checked="" type="checkbox"/>	The respective requirements have widely been complied with; however; the following issues needed to be addressed in this context: - CAR 7, CAR 8
<input type="checkbox"/>	The calculation of ERs is done as per the applied methodology (ACM0002 version 20.0). The calculation in the Excel spreadsheet and the corresponding calculation tables in the PDD have been checked and no mistakes have been identified. The estimation of emission reductions for the 2 <sup>nd</sup> crediting period is deemed plausible and conservative.				
<input checked="" type="checkbox"/>	The respective requirements have widely been complied with; however; the following issues needed to be addressed in this context: - CAR 7, CAR 8				
<b>Conclusion</b>	<table border="1"> <tr> <td data-bbox="414 1559 478 1615"><input type="checkbox"/></td> <td data-bbox="478 1559 1436 1615">No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</td> </tr> <tr> <td data-bbox="414 1615 478 1711"><input checked="" type="checkbox"/></td> <td data-bbox="478 1615 1436 1711">The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</td> </tr> </table> <p>All changes due to the upgraded methodology and the re-assessment of the baseline have been considered appropriately and in line with the CDM PS. The calculation in the Excel spreadsheet and the corresponding calculation tables in the PDD have been checked and no mistakes have been identified. The estimation of emission reductions for the 2<sup>nd</sup> crediting period is deemed plausible and conservative.</p>	<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.	<input checked="" type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.				
<input checked="" type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.				

#### D.5. Validity of monitoring plan

<b>Means of validation</b>	The validation team has checked the monitoring plan of the updated PDD against the required changes due to the update of the baseline and other methodological changes. Further, changes due to editorial updates of the applicable templates have been checked.
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The monitoring plan in the PDD has been updated to comply with the latest applicable version of the monitoring methodology (ACM0002 version 20.0). The basic changes from the current crediting period can be summarized as follows:

**Monitoring Parameters:**

$$- EG_{facility,y}$$

Where:

$$EG_{facility,y} = \text{Quantity of net electricity generation supplied by the project plant/unit to the grid in year } y \text{ (MWh)}$$

$EG_{facility,y}$  is calculated as difference between (a) the quantity of electricity supplied by the project plant/unit to the grid; and (b) the quantity of electricity the project plant/unit from the grid and (a) & (b) are monitored and measured by meters.

Via latest approved monitoring plan<sup>/PDD/</sup> and through checking the PPA<sup>/PPA/</sup> and site photo/Video taken by PP<sup>/PHT/</sup>, it is confirmed that the monitoring plan in the second crediting period PDD is in line with the actual situation.

As shown in the power connection diagram in the PDD which is in line with the latest approved monitoring plan<sup>/PDD-R/</sup> and confirmed through checking the previous MR<sup>/VER/</sup> and PPA<sup>/PPA/</sup>, 31 WTGs are divided into 4 strings (one group with 7 WTGs and three groups with 8 WTGs). They are connected to the 110/35 kV Salkhit substation through 35kV underground cable network. Generated electricity is transmitted from the Salkhit substation through 110kV double circuit high voltage transmission line to 110/35/10 kV Nalaikh substation with further connection to the 220/110/35 kV Ulaanbaatar substation from where the electricity is distributed and finally supplied to the CES, which is verified by the Power Purchase Agreement<sup>/PPA/</sup>.

The monitoring instruments cover 8 meters in total.

The main meter and control meter are installed at the Nalaikh substation. Both meters are bi-directional and the accuracy is within the required standard of 0.2 as verified in the previous verification<sup>/VER/</sup>.

Another 6 meters are installed at Salkhit substation measures electricity export and import through the 110 kV Overhead Transmission Line (OTL) is used for cross-check for the main meter and control meter.

Main Meter and Control Meter monitor the electricity exported to and imported from the grid by the Project. The Main Meter provides the main data that would be the key part of the verification process. In case the Main Meter is out of service, the meter readings of the Control Meter will be used.

Both main and control meter at Nalaikh substation has been regularly checked and read by both parties (grid company and project developer). The meter readings are recorded and aggregated monthly and aggregated into report monthly. The monthly compile is recorded through joint reports, signed and approved by both parties. This joint report serves as the basis for invoice and payment.

The installation and operation of the monitoring meters were in line with the latest approved monitoring plan<sup>/PDD/</sup> and the latest PPA<sup>/PPA/</sup>.

The electricity generated is supplied to the grid under the Power Purchase Agreement<sup>/PPA/</sup>. The electric meters should be examined and undergo regular field calibration according to the relevant standards and regulations "Code of Energy Utilization"<sup>/CEU/</sup> of the power industry so as to ensure the accuracy of the meters. All meters will be calibrated annually by accredited organization in line with the calibration standard.

**QA/QC procedure**

Authorities and responsibilities regarding monitoring plan have been described in Appendix 5 of the updated PDD.

Calibration of Meters & Metering should be implemented according to related standards and rules. All records should be documented by the project developer. The Quantity of net electricity generation supplied by the project plant/unit to the grid will be monitored through the meters and double-checked against relevant electricity sales and purchase records/invoices for quality control.

Both Grid Company and Clean Energy read main meter and control meter remotely from the site computer through a communication line and collect the measured

		<p>electricity data every month and complete the corresponding joint report and project developer issue invoices. Invoices are sent to the Grid company based on the signed joint report, and payments are made in accordance with the signed joint report and invoice.</p> <p>All data collected as part of the monitoring are archived electronically and kept at least until 2 years after the last CER issuance.</p> <p>Data management and quality control measures have been confirmed with PP through interviews.</p> <p>In detail all parameters, ex-ante values and applicable formulae have been checked to determine the required changes for the next crediting period.</p> <p>Besides, based on conducted interviews with related personnel the validation team has assessed the feasibility of the required changes.</p>
<b>Findings</b>	<input checked="" type="checkbox"/>	<p>The validation team has duly assessed all required changes due to the upgraded methodological requirements and the re-assessment of the monitoring plan. The validation team has concluded that</p> <ul style="list-style-type: none"> <li>- all necessary changes have been appropriately reflected in the updated PDD,</li> <li>- the monitoring plan in the updated PDD is in compliance with the applied monitoring methodology,</li> <li>- the monitoring arrangements described in the updated PDD can be implemented and are feasible within the project design.</li> </ul>
	<input checked="" type="checkbox"/>	<p>The respective requirements have widely been complied with; however; the following issues needed to be addressed in this context:</p> <ul style="list-style-type: none"> <li>- CAR 9</li> </ul>
<b>Conclusion</b>	<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		All necessary changes have been appropriately reflected in the updated PDD, the monitoring plan in the updated PDD is in compliance with the applied monitoring methodology, and the monitoring arrangements described in the updated PDD can be implemented and are feasible within the project design.

#### D.6. Crediting period

<b>Means of validation</b>		<p>The project has been registered on 30/03/2012 under the UNFCCC registration No. 5977. The PPs have chosen a 7 year crediting period which the first crediting period started from 24/06/2013 and has expired on 23/06/2020.</p> <p>According to EB meeting report of 100 meeting<sup>/EBMR/</sup>, "Notification of renewal intention from project participants is no longer required, and therefore there is no longer a penalty of "unclaimable period" of CERs for late notification", and "A DOE shall submit a renewal request to the secretariat no earlier than 270 days prior to, but no later than one year after, the expiry of the crediting period, otherwise the renewal is no longer possible for the project activity".</p> <p>Hence PP selected TÜV NORD to conduct the RCP validation no earlier than 270 days prior to, but no later than one year after the expiry of the 1<sup>st</sup> crediting period, which is confirmed as in line with the EB requirement for the RCP.</p> <p>Hence, it is confirmed the project's 2<sup>nd</sup> crediting period may start immediately after the expiration of the 1<sup>st</sup> one, given that all other applicable criteria are met.</p>
<b>Findings</b>	<input checked="" type="checkbox"/>	<p>As the respective requirements are met, the project's 2<sup>nd</sup> crediting period may start immediately after the expiration of the 1<sup>st</sup> one, given that all other applicable criteria are met.</p> <p>It is further confirmed that the start date (24/06/2020) and the length of the crediting period (7 years) are in compliance with the project standard.</p>
	<input checked="" type="checkbox"/>	<p>The respective requirements have widely been complied with; however; the following issues needed to be addressed in this context:</p> <ul style="list-style-type: none"> <li>- CAR 10</li> </ul>

<b>Conclusion</b>	<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	It is thus confirmed that the start date and the length of the 2 <sup>nd</sup> crediting period (7 years) are in compliance with the project standard.	

### D.7. Project participants

<b>Means of validation</b>	The validation team has checked the revised PDD/ <sup>PDD/</sup> and the UNFCCC website/ <sup>unfccc/</sup> esp. the latest version of the Modalities of Communication/ <sup>MOC/</sup> to check whether the listed project participants have duly been authorized and if communication requirements are met.	
<b>Findings</b>	<input checked="" type="checkbox"/>	The names of the project participants as listed in the revised PDD (sections A.4. and appendix 1) are consistent with those listed on the dedicated UNFCCC project website as well as in the last version of the modalities of communication/ <sup>MOC/</sup> .
	<input type="checkbox"/>	The respective requirements have widely been complied with; however; the following issues needed to be addressed in this context: - N/A
<b>Conclusion</b>	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	The names of the project participants are consistent with those listed on the dedicated UNFCCC project website as well as in the last version of the modalities of communication/ <sup>MOC/</sup> .	

### 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, standardized baselines or other methodological regulatory documents	N	-	-
Corrections	N	-	-
Change to the start date of the crediting period	Y/ <sup>PRC/</sup>	N/A	N/A
Inclusion of a monitoring plan	N	-	-
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents	Y <sup>1/PRC/</sup>	09/02/2015 (Validation Report date)	07/05/2015 approved by EB/ <sup>PRC/</sup>
Changes to the project design	N	-	-
Changes specific to afforestation and reforestation project activities	N	-	-

CAR 11 was raised and successfully closed. For details please refer to Appendix 4.

<sup>1</sup> PRC-5977-001, <https://cdm.unfccc.int/PRCContainer/DB/prcp14328273/view>

**SECTION E. Internal quality control**

Before the submission of the final VAL RCP report a technical review of the whole validation procedure was carried out. The technical reviewers are competent GHG auditors being appointed for the scope this project falls under. The technical reviewers are not considered to be part of the validation team and thus not involved in the decision making process up to the technical review.

As a result of the technical review process the validation opinion and the topic specific assessments as prepared by the validation team leader may have been confirmed or revised. Furthermore reporting improvements might have been achieved.

After the successful technical review an overall (esp. procedural) assessment of the complete validation has been carried out by a senior assessor located in the accredited premises of TÜV NORD.

After this step the submission for requesting the renewal of crediting period is conducted.

**SECTION F. Validation opinion**

Clean Energy LLC has commissioned the TÜV NORD JI/CDM Certification Program to re-validate the project "Salkhit Wind Farm" for the purpose of renewal of the crediting period. The validation is based on the relevant UNFCCC requirements.

The review of the updated project design documentation and additional documents related to baseline and monitoring methodology; the subsequent background investigation, follow-up interviews have provided TÜV NORD JI/CDM Certification Program with sufficient evidence to validate the fulfilment of the stated criteria applicable for RCP.

In detail the conclusions can be summarized as follows:

The current baseline of the project is in line with the national and/or sectoral policies and circumstances at the time of requesting renewal of crediting period.

The monitoring plan is transparent and adequate and in line with the applicable monitoring methodology (ACM0002 ver. 20.0).

The calculation of the project emission reductions is carried out in a transparent and conservative manner, so that the calculated emission reductions of **1,332,835 tCO<sub>2</sub>e** are most likely to be achieved within the second renewable crediting period of 7 years.

The conclusions of this report show, that the project, as it was described in the project documentation, is in line with all criteria applicable for the renewal of the crediting period.

Beijing, 19/06/2020




Zhao Xuejiao  
TÜV NORD JI/CDM Certification Program  
Validation Team Leader



## Appendix 1. Abbreviations

Abbreviations	Full texts
<b>BAU</b>	Business as usual
<b>CA</b>	Corrective Action / Clarification Action
<b>CAR</b>	Corrective Action Request
<b>CDM</b>	Clean Development Mechanism
<b>CER</b>	Certified Emission Reduction
<b>CES</b>	Central Energy System
<b>CL</b>	Clarification Request
<b>CO<sub>2</sub></b>	Carbon dioxide
<b>CO<sub>2</sub>e</b>	Carbon dioxide equivalent
<b>CP</b>	Certification Program // Crediting Period
<b>DNA</b>	Designated National Authority
<b>EB</b>	CDM Executive Board
<b>ER</b>	Emission Reductions
<b>ETS</b>	Emission Trading Scheme
<b>FAR</b>	Forward Action Request
<b>GHG</b>	Greenhouse gas(es)
<b>IPCC</b>	Intergovernmental Panel on Climate Change
<b>LOA</b>	Letter of Approval
<b>MOC</b>	Modalities of Communication
<b>PCP</b>	CDM Project Cycle Procedure
<b>PDD</b>	Project Design Document
<b>PP</b>	Project Participant
<b>PRC</b>	Post-registration changes
<b>PS</b>	CDM Project Standard
<b>QC/QA</b>	Quality control/Quality assurance
<b>RCP</b>	Renewal of Crediting Period
<b>UNFCCC</b>	United Nations Framework Convention on Climate Change
<b>VVS</b>	CDM Validation and Verification Standard

## Appendix 2. Competence of team members and technical reviewers



**Statement of Competence**  
Appointment and authorization according to the procedures  
of the TUV NORD JI/CDM Certification Program

**Ms. Xue Jiao Fancy Zhao**

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2022-11-01
VCS / ISO 14064-2	Senior Assessor	2022-11-01


Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
3.1	Energy Demand
8.1	Mining and mineral production
13.1	Solid waste and wastewater
13.2	Manure

230- Rev. 10, Date: 2020-04-07

230\_S01-VA060-F30\_2020-04-07\_rev10

S01-VA060-F20 rev3 / 2012-10-25



**Statement of Competence**  
Appointment and authorization according to the procedures  
of the TUV NORD JI/CDM Certification Program

**Ms. Christina Stöhr**

SCHEME	STATUS	VALID UNTIL
CDM	Assessor (Validation, Verification) Technical Reviewer	2023-05-05
VCS / ISO 14064-2	Assessor/ Technical Reviewer	2023-05-05

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.1	Thermal energy generation
1.2	Renewables
13.1	Solid waste and wastewater

200 - Rev. 6 Date: 2020-04-08

200\_S01-VA060-F20\_2020-04-08\_rev 6

S01-VA060-F20 rev3 / 2012-10-25

## Appendix 3. Documents reviewed or referenced

No.	Author	Reference	Title	References to the document	Provider
1.	PP	/HCA/	Host Country Approval from DNA of Mongolia, date on 11/11/2011	<a href="https://cdm.unfccc.int/Projects/DB/RWTUV133302273/9.26/view">https://cdm.unfccc.int/Projects/DB/RWTUV133302273/9.26/view</a>	UNFCCC Website
2.	PP	/LOA/	Letter of Approval from Swedish DNA, dated on 17/05/2013	<a href="https://cdm.unfccc.int/Projects/DB/RWTUV133302273/9.26/view">https://cdm.unfccc.int/Projects/DB/RWTUV133302273/9.26/view</a>	UNFCCC Website
3.	PP	/MOC/	Modalities of Communication	<a href="https://cdm.unfccc.int/Projects/DB/RWTUV133302273/9.26/view">https://cdm.unfccc.int/Projects/DB/RWTUV133302273/9.26/view</a>	UNFCCC Website
4.	PP	/PDD/	Project Design document "Salkhit Wind Farm" - Version No. 3, dated 24/11/2014 - Version No. 4, dated 17/02/2020 - Version No. 5, dated 25/05/2020	-	PP
5.	PP	/PDD-R/	Registered Project Design Document named "Salkhit Wind Farm" (Version No. 3, dated 24/11/2014)	<a href="https://cdm.unfccc.int/Projects/DB/RWTUV133302273/9.26/view">https://cdm.unfccc.int/Projects/DB/RWTUV133302273/9.26/view</a>	UNFCCC Website
6.	PP	/XLS/	RCP Emission reduction calculation spreadsheet – 2 <sup>nd</sup> Crediting Period - Version No. 1, dated 17/02/2020 - Version No. 2, dated 25/05/2020	-	PP
7.	UNFCCC	/ACM0002/	ACM0002 ver.20.0- Grid-connected electricity generation from renewable sources	<a href="https://cdm.unfccc.int/methodologies/DB/VJI9AX539D9MLOPXN2AY9UR1N4IYGD">https://cdm.unfccc.int/methodologies/DB/VJI9AX539D9MLOPXN2AY9UR1N4IYGD</a>	UNFCCC
8.	UNFCCC	/BPLE/	Methodological tool: "Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation" (Version 03.0)	-	UNFCCC Website
9.	Fuel and Energy Ministry	/CEU/	Code of Energy Utilization	<a href="https://www.legalinfo.mn/annex/showPrint/6218">https://www.legalinfo.mn/annex/showPrint/6218</a>	Public Website
10.	TÜV NORD	/CPM/	TÜV NORD JI / CDM Certification Program Manual (incl. procedures and forms)	-	TÜV NORD
11.	EB	/EBMR/	EB meeting report of 100 meeting	<a href="https://cdm.unfccc.int/EB/index.html">https://cdm.unfccc.int/EB/index.html</a>	UNFCCC
12.	IPCC	/IPCC/	<ul style="list-style-type: none"> <li>IPCC Good Practice Guidance &amp; Uncertainty Management in National Greenhouse Gas Inventories, 2000</li> <li>Revised 2006 IPCC Guidelines for National Greenhouse Gas</li> </ul>	<a href="http://www.ipcc.ch">www.ipcc.ch</a>	IPCC Website

No.	Author	Reference	Title	References to the document	Provider
			Inventories: Reference Manual		
13.	UNFCCC	/KP/	Kyoto Protocol (1997)	-	UNFCCC
14.	UNFCCC	/MA/	Decision 3/CMP.1 (Marrakesh – Accords & Annex to decision (17/CP.7))	-	UNFCCC
15.	Mongolia DNA, Energy Regulatory Authority, Ministry of Mineral Resources and Energy	/NEF/	1. “Statistical Indicators for Energy Sector-2017-2019”, 2. The fuel shares for heat and electricity 3. Mongolia Second National Communication under the UNFCCC, 2010 (Second National Communication)	-	PP
16.	UNFCCC	/PCP/	CDM project cycle procedure for project activities, version 02.0	<a href="https://cdm.unfccc.int/Reference/Standards/index.html">https://cdm.unfccc.int/Reference/Standards/index.html</a>	UNFCCC
17.	UNFCCC	/PDD-T/	Project Design Document Form (CDM-PDD-FORM) – Version 11.0 including Attachment: Instructions for filling out the project design document form for CDM project activities	<a href="https://cdm.unfccc.int/Reference/PDDs_Forms/index.html">https://cdm.unfccc.int/Reference/PDDs_Forms/index.html</a>	UNFCCC
18.	SgurrEnergy	/FSR/	Feasibility Study Report (FSR) in Feb. 2011	-	PP
19.	PP	/PHT/	Photographs/Video of power plant site, Central Control Room, power wiring diagram, monitoring meters, DCS System taken by PP	-	PP
20.	Clean Energy LLC and Central Regional Electricity Transmission Network State Owned Stock Company	/PPA/	Latest version of the Power Purchase Agreement dated in Dec. 2010 signed by Clean Energy LLC and Central Regional Electricity Transmission Network State Owned Stock Company	-	PP
21.	UNFCCC	/PRC/	Post Registration Change 1. Permanent change of Monitoring plan approved by EB on 07/05/2015, Ref No. PRC-5977-001 2. Change of start date of crediting period (no PRC report due to change is no longer than one year)	<a href="https://cdm.unfccc.int/PRC/Container/DB/prcp14328273/view">https://cdm.unfccc.int/PRC/Container/DB/prcp14328273/view</a>  <a href="https://cdm.unfccc.int/Projects/DB/RWTUV1333022739.26/view">https://cdm.unfccc.int/Projects/DB/RWTUV1333022739.26/view</a>	UNFCCC
22.	UNFCCC	/PS/	CDM project standard for project activities, version 02.0	<a href="https://cdm.unfccc.int/Reference/Standards/index.html">https://cdm.unfccc.int/Reference/Standards/index.html</a>	UNFCCC
23.	UNFCCC	/TEF/	Methodological Tool: “Tool to calculate the emission factor for an electricity system”, version 07.0	-	UNFCCC

No.	Author	Reference	Title	References to the document	Provider
24.	GE	/TP/	Technical Particulars of wind turbine and generator and Purchase Contract of Wind turbines	-	PP
25.	UNFCCC	/TVB/	Methodological Tool: "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	-	UNFCCC
26.	TUV NORD	/VAL/	Validation Report for CDM project "Salkhit Wind Farm" Version 1.0, dated 28/03/2012	<a href="https://cdm.unfccc.int/Projects/DB/RWTUV1333022739.26/view">https://cdm.unfccc.int/Projects/DB/RWTUV1333022739.26/view</a>	UNFCCC
27.	UNFCCC	/VVS/	CDM Validation and Verification Standard for project activities, version 02.0	<a href="https://cdm.unfccc.int/Reference/Standards/index.html">https://cdm.unfccc.int/Reference/Standards/index.html</a>	UNFCCC
28.	Mongolia DNA	/dna/	DNA Website	<a href="http://qhs.mee.gov.cn/">http://qhs.mee.gov.cn/</a>	Mongolia DNA
29.	UNFCCC	/unfccc/	UNFCCC	<a href="https://cdm.unfccc.int">https://cdm.unfccc.int</a>	UNFCCC

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

Table 1. CL from this validation

<b>CL ID</b>	<b>N/A</b>	<b>Section no.</b>	<b>Date:</b>
<b>Description of CL</b>			
<b>Project participant response</b>			<b>Date:</b>
<b>Documentation provided by project participant</b>			
<input type="checkbox"/> Changes in the PDD	Section(s):		New version No.:
<input type="checkbox"/> Changes in MR	Section(s):		New version No.:
<input type="checkbox"/> Changes in XLS	Worksheet(s):		New version No.:
<input type="checkbox"/> Other:			
<b>DOE assessment</b>			<b>Date:</b>
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input type="checkbox"/> The finding is closed		

Table 2. CAR from this validation

<b>CAR ID</b>	<b>1</b>	<b>Section no.</b>	<b>Cover page</b>	<b>Date:</b> 30/04/2020
<b>Description of CAR</b>				
1. The name of the project participants are not complete as per the UNFCCC webpage for this project. 2. The name of the applied methodology is not correct.				
<b>Project participant response</b>				<b>Date:</b> 20/05/2020
1. The name of the project participant Swedish Energy Agency is added into the cover page per the UNFCCC webpage for this project. 2. The name of the applied methodology ACM0002 is changed to Grid-connected electricity generation from renewable sources which is consistent with UNFCCC.				
<b>Documentation provided by project participant</b>				
<input checked="" type="checkbox"/> Changes in the PDD	Section(s): Cover page		New version No.: 5	
<input type="checkbox"/> Changes in MR	Section(s):		New version No.:	
<input type="checkbox"/> Changes in XLS	Worksheet(s):		New version No.:	
<input type="checkbox"/> Other:				
<b>DOE assessment</b>				<b>Date:</b> 22/05/2020
1. Revised PDD is checked, it is confirmed that name of the project participants are complete as per the UNFCCC webpage for this project and A.4 of the PDD. 2. Revised PDD is checked, it is confirmed that the name of the applied methodology is correct as per the UNFCCC website.				
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed			

<b>CAR ID</b>	<b>2</b>	<b>Section no.</b>	<b>A.1</b>	<b>Date:</b> 30/04/2020
<b>Description of CAR</b>				
1. The project boundary is not described in section A.1. 2. The baseline scenario is not described in section A.1				
<b>Project participant response</b>				<b>Date:</b> 20/05/2020
1. The Project boundary included the project site and all power plants connected physically to the grid is added to section A.1. 2. The baseline scenario is described as below in section A.1. Here in: The baseline scenario of the project is the electricity supply of equal amount as the project from the grid. The baseline scenario of the project is the same as the scenario prior to the start of implementation of project activity.				
<b>Documentation provided by project participant</b>				
<input checked="" type="checkbox"/> Changes in the PDD	Section(s): A.1		New version No.: 5	
<input type="checkbox"/> Changes in MR	Section(s):		New version No.:	
<input type="checkbox"/> Changes in XLS	Worksheet(s):		New version No.:	
<input type="checkbox"/> Other:				

<b>DOE assessment</b>		<b>Date:</b> 22/05/2020
1. Revised PDD is checked, it is confirmed that project boundary has been added into the section A.1 which is confirmed as in line with the section B.3 and applied methodology. 2. Revised PDD is checked, it is confirmed that baseline scenario has been added into the section A.1 which is confirmed as in line with the section B.4 and applied methodology.		
<b>Conclusion</b> Tick the appropriate checkbox	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed	

<b>CAR ID</b>	<b>3</b>	<b>Section no.</b>	A.3	<b>Date:</b> 30/04/2020
<b>Description of CAR</b>				
1. How many of the turbines installed is not stated. 2. As per the FORM, description of how the technologies/measures and know-how for their use are transferred to the host Party is not provided.				
<b>Project participant response</b>				<b>Date:</b> 20/05/2020
1. Table 2 Technology specification changed to below table including total installed turbines number of 31. 2. Description of how the technologies/measures and know-how for their use are transferred to the host Party is described as below in section A.3. Here in: The project activity is installed 31 units of General Electric wind turbines. The Clean Energy LLC using operation and maintenance manual which is provided from General Electric.				
<b>Documentation provided by project participant</b>				
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s):	A.3	New version No.: 5
<input type="checkbox"/>	Changes in MR	Section(s):		New version No.:
<input type="checkbox"/>	Changes in XLS	Worksheet(s):		New version No.:
<input checked="" type="checkbox"/>	Other:	/FSR/, /TP/		
<b>DOE assessment</b>				<b>Date:</b> 22/05/2020
1. The number of turbines equipment is supplemented in section A.3 of the updated PDD, the value is verified as correct by checking the equipment purchase contract <sup>TP/</sup> . 2. A description of the technologies/measures are transferred to the host Party is supplemented in the updated PDD, which is confirmed as correct.				
<b>Conclusion</b> Tick the appropriate checkbox	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed			

<b>CAR ID</b>	<b>4</b>	<b>Section no.</b>	B.1	<b>Date:</b> 30/04/2020
<b>Description of CAR</b>				
1. The name of applied methodology is not correct. 2. The list of the tools are not all related to the project, delete the non used ones. 3. The version of the tools is missing. 4. UNFCCC CDM website for the exact reference of approved methodologies, methodological tools are all missing in section B.1.				
<b>Project participant response</b>				<b>Date:</b> 20/05/2020
1. The name of applied methodology is changed to the approved methodology applied in the proposed project activity is ACM002 (version 20.0) - "Grid-connected electricity generation from renewable sources" 2. Below non used tools are deleted from section B.1 which is not used for renew of the project. Here in: I. "TOOL01: Tool for the demonstration and assessment of additionality" II. "TOOL02: Combined tool to identify the baseline scenario and demonstrate additionality" III. "TOOL03: Tool calculate project or leakage CO <sub>2</sub> emissions from fossil fuel combustion" IV. "TOOL10: Tool to determine the remaining lifetime of equipment" V. "TOOL32: Positive lists of technologies" 3. The version of the tools is added. See below made changes. I. "TOOL05: Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation" Version 03.0; II. "TOOL07: Tool to calculate the emission factor for an electricity system" Version 07.0; III. "TOOL11: 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; 4. Exact reference of approved methodologies, methodological tools are added in the PDD.				
<b>Documentation provided by project participant</b>				
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s):	B.1	New version No.: 5

<input type="checkbox"/> Changes in MR	Section(s):	New version No.:
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Other:		
<b>DOE assessment</b>		<b>Date: 22/05/2020</b>
1. The revised PDD is checked, it is confirmed that the name of applied methodology is correct as per the UNFCCC website. 2. The revised PDD is checked, it is confirmed that the list of the tools are all related to the project, the non used ones are deleted. 3. The revised PDD is checked, it is confirmed that all versions of the tools are added as the latest one. 4. The revised PDD is checked, it is confirmed that the UNFCCC CDM website for the exact reference of approved methodologies, methodological tools are all correctly listed in section B.1.		
<b>Conclusion</b> Tick the appropriate checkbox	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed	

<b>CAR ID</b>	<b>5</b>	<b>Section no.</b>	B.2	<b>Date:</b>	30/04/2020
<b>Description of CAR</b>					
In the B.2, the applicability demonstration has been provided for all the tools used for the methodology, not the tools used for project, also the applicability condition as per the tool's request is not listed.					
<b>Project participant response</b>					<b>Date: 20/05/2020</b>
In the section B.2, the applicability demonstration and applicability conditions changed in the table. Refer to the PDD version 5 for details.					
<b>Documentation provided by project participant</b>					
<input checked="" type="checkbox"/> Changes in the PDD	Section(s): B.2		New version No.: 5		
<input type="checkbox"/> Changes in MR	Section(s):		New version No.:		
<input type="checkbox"/> Changes in XLS	Worksheet(s):		New version No.:		
<input type="checkbox"/> Other:					
<b>DOE assessment</b>					<b>Date: 22/05/2020</b>
The revised PDD is checked, it is confirmed that the revision has been carried out, all the related tools are assessed and all the non used ones are deleted accordingly.					
<b>Conclusion</b> Tick the appropriate checkbox	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed				

<b>CAR ID</b>	<b>6</b>	<b>Section no.</b>	B.4	<b>Date:</b>	30/04/2020
<b>Description of CAR</b>					
In the B.4, the baseline scenario in registered PDD is not re-assessed according to the tool 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). Revision is requested.					
<b>Project participant response</b>					<b>Date: 20/05/2020</b>
<p>According to the tool Assessment of the validity of the original/current baseline and updated of the baseline at the renewal of the crediting period (Version 03.0.1), below changes made in Section B.4. Here in:</p> <p>The current baseline complies with all relevant mandatory national and/or sectoral policies. Baseline scenario identified at the validation of the project activity was continuation of the current practice without any investment.</p> <p>In accordance with "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), the validity of the current baseline is assessed using the following sub steps:</p> <p><b>Step 1: Assess the validity of the current baseline for the next crediting period</b></p> <p>Step 1.1: Assess compliance of the current baseline with relevant mandatory national and/or sectoral policies</p> <p>There are no new national and/or sectoral policies that could affect the baseline scenario during the renewal of the crediting period. The baseline scenario of the proposed project activity is still the electricity delivered to the grid by proposed project would have otherwise been generated by the operation of grid-connected power plants and by addition of new generation source. The current baseline still complies with all relevant mandatory national and sectoral policies which have come into effect after the submission of the project activity for validation and are applicable at the time of requesting renewal of the crediting period. Go to step 1.2</p> <p>Step 1.2: Assess the impact of circumstances</p>					



The baseline scenario identified at the validation of the project activity was the continuation of the current practice without any investment. The investment environment or market characteristics especially the feed-in tariff, the policy in terms of market access permit, these circumstances continue during the second crediting period and therefore, do not have an impact on the current baseline emissions. Hence the current baseline does not need to be updated. Go to step 1.3

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

The baseline scenario identified at the validation of the project activity was the continuation of the current practice without any investment, there's no current baseline equipment or an investment, hence the current baseline does not need to be updated. Go to step 1.4

Step 1.4: Assessment of the validity of the data and parameters

Data and parameters that need to be updated are as follows:

$EF_{grid,CM,y}$ : the baseline emission factor that determined once for the first crediting period at the time of validation, hence it shall be updated using the latest version of "Tool to calculate the emission factor for an electricity system". Please refer to section B.6 for details.

## Step 2: Update the current baseline, data and parameters

Step 2.1: Update the current baseline

As per the analysis in step 1 above, the current baseline does not need to be updated.

Step 2.2: Update the data and parameters

The updated baseline emission factor for the project ( $EF_{grid,CM,y}$ ) is 1.130 tCO<sub>2</sub>/MWh.

### Documentation provided by project participant

<input checked="" type="checkbox"/> Changes in the PDD	Section(s): B.4	New version No.: 5
<input type="checkbox"/> Changes in MR	Section(s):	New version No.:
<input type="checkbox"/> Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/> Other:		

### DOE assessment

Date: 22/05/2020

The revised PDD is checked, it is confirmed that applicability demonstration of tool "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)" is added, the description is confirmed as per the requirement of the tool<sup>TVB/</sup>. Refer to section D.3 of this report for detail assessment.

### Conclusion

Tick the appropriate checkbox

- ☐ Additional action should be taken (finding remains open)  
☒ The finding is closed

CAR ID	7	Section no.	B.6.1	Date:	30/04/2020
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### Description of CAR

In section B.6.1, For  $EF_{grid,CM,y}$  calculation,

- It stated in the PDD that three-year average operating margin emission factor used for calculate the  $EF_{grid,OM,y}$ , while which years are not stated clearly, also state that if data for these years are the latest valid available data at the time of the validation for the crediting period renewal.
- The raw data for calculating the  $EF_{grid,CM,y}$  is not provided.

### Project participant response

Date: 20/05/2020

- In section B.6.1, 2017, 2018, 2019 years average operating margin emission factor used for calculate the  $EF_{grid,OM,y}$  clearly stated. And there is no other latest valid available data at the time.
- The raw data for calculating the  $EF_{grid,CM,y}$  is provided by power point file including photos.

### Documentation provided by project participant

<input checked="" type="checkbox"/> Changes in the PDD	Section(s): B.6.1	New version No.: 5
<input type="checkbox"/> Changes in MR	Section(s):	New version No.:
<input checked="" type="checkbox"/> Changes in XLS	Worksheet(s): ER	New version No.: 2.0
<input checked="" type="checkbox"/> Other:	/NEF/	

### DOE assessment

Date: 22/05/2020

- The revised PDD is checked, it is confirmed that latest three-year 2017, 2018 and 2019 average operating margin emission factor used for calculate the  $EF_{grid,OM,y}$ , via checking the data issued by Energy Regulatory Authority<sup>NEF/</sup>, it is verified that these year's value are the latest valid available data at the time of the validation for the crediting period renewal in 2020.
- The raw data for calculating the  $EF_{grid,CM,y}$  is provided and confirmed as actual.

<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open)
	<input checked="" type="checkbox"/> The finding is closed

<b>CAR ID</b>	<b>8</b>	<b>Section no.</b>	B.6.4	<b>Date:</b>	30/04/2020
<b>Description of CAR</b>					
In section B.6.4, the year for the 2 <sup>nd</sup> crediting period it not correct.					
<b>Project participant response</b>					<b>Date:</b> 20/05/2020
In section B.6.4, the year for the 2 <sup>nd</sup> crediting period is changed to be 24/06/2020 to 23/06/2027 with 7 years divided.					
<b>Documentation provided by project participant</b>					
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s):	B.6.4	New version No.:	5
<input type="checkbox"/>	Changes in MR	Section(s):		New version No.:	
<input type="checkbox"/>	Changes in XLS	Worksheet(s):		New version No.:	
<input checked="" type="checkbox"/>	Other:				
<b>DOE assessment</b>					<b>Date:</b> 22/05/2020
The revised PDD is checked, it is confirmed that the year for the 2 <sup>nd</sup> crediting period it correct.					
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open)				
	<input checked="" type="checkbox"/> The finding is closed				

<b>CAR ID</b>	<b>9</b>	<b>Section no.</b>	B.7 & Appendix 5	<b>Date:</b>	30/04/2020
<b>Description of CAR</b>					
<p>1. Description of the calculation of <b>EG<sub>facility,y</sub></b> is not in line with the Tool of Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation (Version 03.0).</p> <p>2. The meters location and description is not clear and complete in section B.7.1 and also Appendix 5.</p> <p>3. Monitoring frequency of <b>EG<sub>facility,y</sub></b> is not in line with the registered PDD.</p> <p>4. Management standard Code of Energy Utilization is not provided.</p> <p>5. Tool of Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation (Version 03.0) used for monitoring the parameter <b>EG<sub>facility,y</sub></b> is not specified in the parameter table in section B.7.1.</p> <p>6. Monitoring figure with meters location is not provided in the PDD.</p>					
<b>Project participant response</b>					<b>Date:</b> 20/05/2020
<p>1. According to Tool of Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation (Version 03.0) <b>EG<sub>facility,y</sub></b> described as Quantity of net electricity generation supplied by the project plant/unit to the grid in year y.</p> <p>2. The meters location and description cleared. See the below changes. In the Salkhit substation of Salkhit wind farm, 12 meters are installed and meters 01285029, 01285026, 01285030 and 01285023 are measuring supplied quantity by project. Other 8 meters are installed purpose of measuring transmission loss and internal usage. In the Nalaikh substation, 4 meters are installed, two billing meters (01325612, 01325611) are measuring delivered quantity by project. Remaining 2 meters (01258916, 01258912) are control meters and monitoring 2 billing meters. All installed meters are checked and validated by authority which have right to check and approve validation certification for meters.</p> <p>3. Monitoring frequency of <b>EG<sub>facility,y</sub></b> is changed as Continues measurement complied daily and monthly in daily log and monthly joint reports.</p> <p>4. <a href="https://www.legalinfo.mn/annex/showPrint/6218">https://www.legalinfo.mn/annex/showPrint/6218</a> link of Management standard Code of Energy Utilization is provided.</p> <p>5. Tool of Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation (Version 03.0) used for monitoring the parameter <b>EG<sub>facility,y</sub></b> is specified in the parameter table as below. Tool of Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation (Version 03.0) is used for monitoring the parameter <b>EG<sub>facility,y</sub></b></p> <p>6. Monitoring figure with meters location is provided in the PDD as below. In the Salkhit substation of Salkhit wind farm, 12 meters are installed and meters 01285029, 01285026, 01285030 and 01285023 are measuring supplied quantity by project. Other 8 meters are installed purpose of measuring transmission loss and internal usage. In the Nalaikh substation, 4 meters are installed, two billing meters (01325612, 01325611) are measuring delivered quantity by project. Remaining 2 meters (01258916, 01258912) are control meters and monitoring 2 billing meters.</p>					
<b>Documentation provided by project participant</b>					
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s):	B.7& Appendix 5	New version No.:	5
<input type="checkbox"/>	Changes in MR	Section(s):		New version No.:	
<input type="checkbox"/>	Changes in XLS	Worksheet(s):		New version No.:	
<input checked="" type="checkbox"/>	Other:		/CEU/		

<b>DOE assessment</b>		<b>Date:</b> 22/05/2020
<p>1. The revised PDD is checked, it is confirmed that the description of the calculation of <b>EG<sub>facility,y</sub></b> is in line with the Tool of Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation (Version 03.0).</p> <p>2. The revised PDD is checked, it is confirmed that the meters location and description is clear and complete in section B.7.1 and also Appendix 5, which is verified as correct as per checking the latest MR and verification report<sup>VER/</sup>.</p> <p>3. The revised PDD is checked, it is confirmed that the Monitoring frequency of <b>EG<sub>facility,y</sub></b> is in line with the registered PDD.</p> <p>4. Management standard Code of Energy Utilization is provided as the valid weblink.</p> <p>5. The revised PDD is checked, it is confirmed that the tool of Baseline, project and/or leakage emissions from electricity consumption and monitoring of electricity generation (Version 03.0) used for monitoring the parameter <b>EG<sub>facility,y</sub></b> has been specified in the parameter table in section B.7.1.</p> <p>6. The revised PDD is checked, it is confirmed that the monitoring figure with meters location is provided in the PDD, which is verified as correct as per checking the latest MR and verification report<sup>VER/</sup>.</p>		
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed	

<b>CAR ID</b>	<b>10</b>	<b>Section no.</b>	<b>C</b>	<b>Date:</b> 30/04/2020
<b>Description of CAR</b>				
In section C, the start date of 2 <sup>nd</sup> crediting period is not correct.				
<b>Project participant response</b>				<b>Date:</b> 20/05/2020
In section C, the start date of 2 <sup>nd</sup> crediting period is changed to 24/06/2020.				
<b>Documentation provided by project participant</b>				
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s): C	New version No.: 5	
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:	
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:	
<input type="checkbox"/>	Other:			
<b>DOE assessment</b>				<b>Date:</b> 22/05/2020
The revised PDD is checked, it is confirmed that the revised date is correct.				
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed			

<b>CAR ID</b>	<b>11</b>	<b>Section no.</b>	<b>Appendix 7</b>	<b>Date:</b> 30/04/2020
<b>Description of CAR</b>				
The Summary of PRC is not complete, the change of start date of crediting period is not stated.				
<b>Project participant response</b>				<b>Date:</b> 20/05/2020
<p>The Summary of PRC is completed; start date of crediting period is changed to from 24/06/2013 to 24/06/2020.</p> <p>PRC reference number and approval date are added for the one permanent post registration change related to the calibration frequency. See the below changes.</p> <p>PDD has been approved on 7 May 2015 (PRC-5977-001).</p>				
<b>Documentation provided by project participant</b>				
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s): C	New version No.: 5	
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:	
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:	
<input type="checkbox"/>	Other:			
<b>DOE assessment</b>				<b>Date:</b> 22/05/2020
The revised PDD is checked, it is confirmed that the summary of PRC is correct via checking the project webpage in UNFCCC.				
<b>Conclusion</b> <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed			

Table 3. FAR from this validation

N/A