




**Validation report form for post-registration changes for
CDM project activities
(Version 03.0)**

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

BASIC INFORMATION

Title and UNFCCC reference number of the project activity	Title: Nam Chien 2 Hydropower Project UNFCCC reference number: 3442
Process track	<input checked="" type="checkbox"/> Prior approval <input type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
Version number of the validation report	02
Completion date of the validation report	22/01/2022
Type(s) of PRCs	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents ¹ <input type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation project activities
Version number of PDD to which this report applies	5.0
Project participants	1) North-western Power Investment and Development Joint Stock Company 2) Energy and Environment Consultancy Joint Stock Company 3) Swiss Carbon Assets Ltd.
Host Party	Vietnam
Applied methodologies and standardized baselines	Applied methodology: ACM0002, version 20.0 - Grid-connected electricity generation from renewable sources Standardized baseline: Not applicable
Mandatory sectoral scopes	01 - Energy industries (renewable/non-renewable sources)

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

Conditional sectoral scopes, if applicable	N/A
Name and UNFCCC reference number of the DOE	4K Earth Science Private. Limited UNFCCC Ref No. CDM-E-0069
Name, position and signature of the approver of the validation report	 S. Jagajothi Director

SECTION A. Executive summary

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4K Earth Science Pvt. Ltd. has been contracted by 'Swiss Carbon Assets Ltd.' to perform a validation of post-registration changes of the CDM registered project 'Nam Chien 2 Hydropower Project' (UNFCCC Ref. No. 3442) in Vietnam.

The validation was performed in accordance with the UNFCCC criteria for the Clean Development Mechanism, latest version of Validation and Verification Standard for Project Activities and related Standards/Guidance and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The project applies for post registration changes with the following changes applied in the revised PDD /01/ as summarized below in accordance with the CDM PS for project activities version 03:

- a) Permanent changes to the registered monitoring plan in accordance with para 238 of CDM project standard for project activities /07/;

The report is based on the assessment of the project design document, application of standard auditing techniques including but not limited to desk review, follow up actions (e.g., electronic (Google Meet) interviews) and also the review of the applicable approved methodological and relevant tools, guidance and CDM decisions.

The project activity involves the construction of a dam, intake, tunnel, pressurized well, penstock, power house with 2 units and discharge channel in Chieng Muon and Chieng San communes, Muong La district, Son La province, Vietnam.

Prior to the implementation of the project activity, electricity in Vietnam is generated mainly from fossil fuel sources and is solely distributed to consumers via the unique national electricity grid.

The project's purpose is to generate hydroelectricity from the Chien stream - a clean and renewable source to supply to the national grid via a Power Purchase Agreement (PPA) signed with the Electricity Corporation of Vietnam (EVN). The project's installed capacity and estimated annual gross power generation is 32 MW and 131,730 MWh, respectively.

Thus, this project activity generates GHG emission reductions up to a total expected CO₂ emission reduction of 848,708 tCO₂ over the second crediting period of 7 years.

Scope:

The validation is an independent and objective review of the post registration changes in the approved revised PDD for 2nd Crediting Period. The information in these documents is reviewed against the CDM Validation and Verification Standard for Project Activities (version 03), Project Cycle Procedure for Project Activities (version 03), Project Standard for Project Activities (version 03), Kyoto Protocol requirements and UNFCCC rules. The scope of the validation of post registration changes is to determine whether there are proposed or actual changes in registered CDM project activity. 4KES also determined whether the description in the revised PDD submitted by project participants, which describe the nature and extent of the actual changes, accurately reflects the implementation, operation and monitoring of the modified project activity.

Validation methodology and process

The validation is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the project design.

The overall validation, was conducted using 4KES internal procedures. The validation of the post-registration changes consisted of following three phases:

- i) A desk review of the project design and the baseline and monitoring plan;
- ii) Follow-up interviews with project stakeholders;
- iii) The resolution of outstanding issues and the issuance of the final validation report and opinion.

Conclusion

The report is based on the assessment of the revised PDD undertaken through application of standard auditing techniques including but not limited to document reviews and stakeholder interviews, review of the applicable/applied methodology and its underlying formulae and calculations.

This report contains the findings and resolutions from the validation and a validation opinion on the post-registration changes thus confirming the revised project design as document is sound and reasonable and meets the stated requirements and identified criteria. The validation confirms that the implementation of the post registration changes is in line with the applied methodology and all other applicable tools and guidance.

This report contains the opinion for the Post registration changes that are reported in the PDD.

Furthermore, we confirm that:

- the revision points have been described, and an assessment has been provided to substantiate the reasons for each of the revision points of the approved revised PDD (for 2nd crediting period), using objective evidence;
- the revision of the PDD ensures that the level of accuracy and completeness in the monitoring and verification process is not reduced as a result of the revisions;
- the information included in the latest PDD template is materially the same as the information in the approved revised PDD (for 2nd crediting period).

The review of the project design documentation and the subsequent follow-up interviews have provided 4KES with sufficient evidence to determine the project's fulfilment of all the stated criteria. In our opinion, the project meets all applicable UNFCCC requirements for the CDM.

SECTION B. Validation team, technical reviewer and approver

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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/document review	On-site inspection	Interviews	Validation findings
1.	Team Leader and Technical expert (TA 1.2)	IR	Sharma	Chetan Swaroop	Central Office	x		x	x
2.	Local expert	EI	Nguyen	Hong Ngoc Trang	Central Office	x			

B.2. Technical reviewer and approver of the validation report on PRCs

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 & Expert (TA 1.2)	IR	Puratchikkanal	Ma Paa	Central office
2.	Approver	IR	Jagajothi	S	Central Office

SECTION C. Means of validation

C.1. Desk/document review

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The report is based on the assessment of the updated project design document, application of standard auditing techniques including but not limited to desk review, follow up actions (e.g., electronic (Google Meet) interviews), and also the review of the applicable approved methodological and relevant tools, guidance and CDM decisions.

All the documents used for arriving validation conclusion are listed in Appendix 03 and referenced accordingly in validation report.

C.2. On-site inspection

Complete desk review of the final PDD (version 5.0, dated 12/01/2022) /01/, as well as all the supportive evidences has been checked by the Validation team.

In addition, validation team has conducted Google Meet interviews with PP, in order to confirm on the post-registration changes in the project activity as well as request for supportive evidence. Based on the interview and the desk review of the supportive documents, validation team has found that the changes in the PDD are in line with the VVS for PA, version 03 /08/.

Based on the Google Meet Interview, PDD document review, as well as the review of UNFCCC procedures and guidelines, 4KES Validation team has proceeded to skip the site visit. As per para 31 of CDM validation and verification standard for project activities version 03, Validation team has used the following alternative means for its assessment and to justify that they are sufficient for the purpose of validation.

- Complete desk review of the final PDD (version 5.0, dated 12/01/2022) /01/, as well as all the supportive evidences have been checked by the Validation team.;
- By taking follow up actions by conducting Google Meet interview with PP to gather information about knowledge of project design, Baseline assessment, additionality, monitoring plan, Methodology applicability etc. Cross-checked evaluation under the scope of all information and references provided in PDD.
- Cross checks between information provided by interviewed personnel (i.e. by checking sources) to ensure that no relevant information has been omitted.

Details of interviewees, topics covered and additional information presented in the below section "C.3 Interviews".

Validation team has also checked the site visit requirements mentioned in the VVS for Project Activities Version 03 /08/ and concluded that no-site visit is required at this stage of project activity. The justification for the site visit requirements of VVS Project Activities Version 03 /08/ have been mentioned below.

VVS PA Version 03 Requirements	Validation team Justification
Para 29 (b) (b) Follow-up actions (e.g. on-site inspection and telephone or e-mail interviews), including: (i) Interviews with relevant stakeholders in the host country, such as personnel with knowledge of the project design and implementation; (ii) Cross checks between information provided by interviewed personnel (i.e. by checking sources or other interviews) to ensure that no relevant information has been omitted;	Validation team has done the follow-up actions by: 1. Google Meet interview with PP. 2. Cross checks between information provided by interviewed personnel (i.e. by checking sources) to ensure that no relevant information has been omitted.
Para 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 ₂ 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.	The validation is for the post-registration changes in the registered project activity and hence the paragraph 30 is not applicable to the current validation. Hence the validation team has not considered the site visit as mandatory in line with the VVS PA Version 03 Requirements.

Duration of on-site inspection: DD/MM/YYYY to DD/MM/YYYY				
No.	Activity performed on-site	Site location	Date	Team member
1.				
...				

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Bui	Mr. Huy Hao	Director, Nam Chien 2 Hydropower Project	22/12/2021	The project status, baseline, project design, monitoring procedure, methodology applicability etc.	Mr. Chetan Swaroop Sharma (Google Meet interviews)
2.	Nguyen Tien	Mr. Hai	Technical Manager, Energy and Environment Consultancy Joint Stock Company	22/12/2021		

C.4. Sampling approach

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Not Applicable

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

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	00	00	00
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents	00	00	00
Corrections	00	00	00
Changes to the start date of the crediting period	00	00	00
Inclusion of a monitoring plan	00	00	00
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents	01	00	00
Changes to the project design	00	00	00
Changes specific to afforestation and reforestation project activities	00	00	00
Others (please specify)	00	00	00
Total	01	00	00

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

Means of validation	Validation team checked the Project Design Document with latest version of PDD template available in the UNFCCC website (i.e., version 12) /06/ and "Instructions for completing this form" mentioned as attachment to PDD form (version 12) /06/. The template has not been altered and no modifications have been made to the font, format, headings and logo. All the sections of the PDD are checked for the compliance with the "Instructions for completing this form" provided in the PDD template.
Findings	No findings is raised.
Conclusion	The following is confirmed: 1. The PDD /01/ is completed using the valid version of PDD at the time of submission. 2. All the information has been correctly transferred from approved revised PDD /02/ to the current PDD /01/ which is filled in the latest PDD form available in UNFCCC website. Validation team confirms that the transfer of information from the old form to the new form is correct and materially the same as the information in the approved revised PDD /02/. 3. PDD is in compliance with the instruction provided in the template.

	4. As per the requirement of PRC, both clean and track change copy of PDD is submitted for validation.
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D.2. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

D.3. Corrections

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

D.4. Changes to the start date of the crediting period

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

D.5. Inclusion of a monitoring plan

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents

Means of validation	<p>As per appendix 5 of the approved revised PDD for 2nd CP i.e. 11 Oct 17 - 10 Oct 24 /02/, there is a metering system (M1) for measuring the electricity imported from 35 kV grid for emergency case. Also there is one monitoring parameter i.e. $EG_{y,import,35kV}$ (under section B.7.1 of the approved revised PDD for 2nd CP) for the same.</p> <p>However as checked during the remote audit, 35 kV transmission line is no longer in use since commissioning date of Nam Chien 2 hydropower plant on 17/10/2009.</p> <p>CL-01 has been raised in this respect and successfully closed. Refer Appendix 4 of this report for more details.</p> <p>Validation team has checked the letter from Vietnam Electricity Electric Power Trading Company dated 24/11/2009 /11/ which clearly states that EVN sold electricity to the PP during the construction period of Nam Chien 2 hydropower project from 09/2007 to 10/2009 via 35kV grid. Such power supply has been stopped after commissioning i.e. since October 2009.</p> <p>Further as per the EPTC letter /11/, EPTC received an official letter from PP on dated 09/11/2009 requesting to import electricity from 35kV grid for the internal use and EPTC responded as follows "EPTC is supplying electricity to the consumers via 110 kV grid and 35 kV grid. However, 110 kV grid is more stable and has less load loss than a 35 kV grid. In addition, these two grids are being operated in parallel; therefore, failure of the 110 kV grid also results in the failure of the 35 kV grid. Hence, the 35 kV grid is not recommended for the internal consumption of Nam Chien 2 hydropower plant. In normal operating circumstances, power supply via 110 kV grid significantly reduces load loss. Furthermore, the operation and maintenance of both grids at Nam Chien 2 hydropower plant will be costly for the Company and EVN. For the above reasons, EVN hereby rejects your request for importing electricity from 35 kV grid for internal consumption of Nam Chien 2 Hydropower Plant. It will be provided to the Plant via 110 kV only".</p> <p>Hence PP has revised the monitoring plan which includes removal of the metering system (M1) and the monitoring parameter '$EG_{y,import,35kV}$' which was used to calculate $EG_{facility,y}$. The revised equation for arriving $EG_{facility,y}$ is as below: $EG_{facility,y} = EG_{y,export} - EG_{y,import,110kV}$.</p> <p>Therefore, with the permanent change, the emergency electricity import is still maintained and accounted in the project activity.</p> <p>The permanent change to the registered monitoring plan as described in the revised PDD /01/ are in compliance with the applied methodology and do not reduce the level of accuracy and completeness in the monitoring of the project activity compared with the requirements contained in the registered monitoring plan. Further, the permanent change to the registered monitoring plan is not likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions or net anthropogenic GHG removals, hence meets paragraph 296, 297 and 298 of VVS version 03 /08/.</p> <p>The change is as per paragraph 238 of project standard for project activities Version 03 /07/.</p> <p>For this change, PP has submitted the revised PDD /01/ in clean and track change mode in the latest available form and found OK.</p> <p>The changes are correctly reported in the revised PDD /01/.</p>
Findings	CL-01 is raised in this respect and successfully closed. Refer Appendix 4 of this report for more details.
Conclusion	<p>The validation team confirms the below:</p> <ul style="list-style-type: none"> PP has submitted the revised PDD in the latest format.

	<ul style="list-style-type: none"> • The changes are correctly applied in the revised PDD /01/. • The change in the monitoring plan does not impact the applicability of the methodology. • The revised monitoring plan do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan. • The revised monitoring plan is not likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions or net anthropogenic GHG removals <p>Hence, validation team accepts the permanent change reported in the revised PDD /01/.</p>
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D.7. Changes to the project design

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

D.8. Changes specific to afforestation and reforestation project activities

Means of validation	Not Applicable
Findings	Not Applicable
Conclusion	Not Applicable

SECTION E. Internal quality control

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The validation report prepared by team leader is reviewed by an independent technical reviewer (having competence of relevant technical area himself/herself or through an independent technical area expert) to confirm the internal procedures established by 4KES are duly followed and the validation report/opinion is reached in an objective manner and complies with the applicable CDM requirements.

The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of technical review team are independent of the validation team. The independent technical reviewer(s) may approve or reject the draft validation report. The findings may be identified even at this stage, which needs to be satisfactorily resolved, before submit final report to UNFCCC. The final approval decision is taken by the Head of the DOE/Director.

The final decision is authorized by the Director, 4KES, once the report is finalized by the Head of the DOE/DOE Manager.

SECTION F. Validation opinion

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4K Earth Science Pvt. Ltd. has been contracted by 'Swiss Carbon Assets Ltd.' to perform a validation of post-registration changes of the CDM registered project 'Nam Chien 2 Hydropower Project' (UNFCCC Ref. No. 3442) in Vietnam.

The validation was performed in accordance with the UNFCCC criteria for the Clean Development Mechanism, latest version of Validation and Verification Standard for Project Activities and related Standards/Guidance and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The report is based on the assessment of the revised PDD /01/ undertaken through application of standard auditing techniques including but not limited to desk review, follow up actions (e.g., electronic (Google Meet) interviews) and also the review of the applicable approved methodological and relevant tools, guidance's and CDM decisions.

The permanent changes are unlikely to lead to a reduction in the accuracy of the calculation of emission reductions. The version of the template of the PDD is updated to the latest version of template. This change was assessed to confirm that the revised PDD complies with the completing instructions of the CDM PDD-FORM. The change in the revised PDD /01/ complies with the VVS for project activities version 03 /08/, PCP for project activities version 03 /09/ and PS for project activities version 03 /07/ and amendments. The description in the revised PDD /01/ meets all relevant UNFCCC requirements for the CDM. The DOE

therefore accepts the changes and request for the approval of 'Permanent changes to the registered monitoring plan'.

4K Earth Science Pvt. Ltd. concludes the validation with a positive opinion that the Project Activity "Nam Chien 2 Hydropower Project", meets all applicable requirements of UNFCCC for post-registration changes and therefore recommends for the approval of 'Permanent changes to the registered monitoring plan' made to the PDD.

Appendix 1. Abbreviations

Abbreviations	Full texts
BE	Baseline Emission
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CDM PCP	Clean Development Mechanism Project Cycle Procedure for Project Activities
CDM PS	Clean Development Mechanism Project Standard for Project Activities
CDM VVS	CDM Validation and Verification Standard for Project Activities
CER	Certified Emission Reduction(s)
CL	Clarification request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CP	Commitment Period
DOE	Designated Operational Entity
EB	Executive Board
EF	Emission factor
EPTC	Electric Power Trading Company
ER	Emission Reduction
EVN	Vietnam Electricity
FAR	Forward Action Request
GHG	Greenhouse Gas(es)
MP	Monitoring Plan
MW	Mega Watt
MWh	Mega Watt hour
PDD	Project Design Document
PP	Project Participant
UNFCCC	United Nations Framework Convention on Climate Change

Appendix 2. Competence of team members and technical reviewers

<u>Certificate of Competence</u>						
Name	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Chetan Swaroop Sharma				
Qualification Procedure	Fulfills the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GHG Projects.					
Appointed to work as:						
	CDM Validator/Verifier	Team Leader	Team Member	Technical Expert	Technical Reviewer	Financial Expert
<i>Appointed</i>	Yes	Yes	Yes	Yes	Yes	No
<i>Appointed Date</i>	27-04-2021					
Authorized to work as Technical Expert for:						
<i>Authorized Technical Area</i>	Sectoral Scope	TA Code	Technical Area within the scope			
	Energy industries (renewable - / non-renewable sources)	1.1	Thermal energy generation			
	Energy industries (renewable - / non-renewable sources)	1.2	Renewables			
	Energy distribution	2.1	Energy distribution			
	Energy demand	3.1	Energy demand			

	Waste handling and disposal	13.1	Solid waste and wastewater
	Waste handling and disposal	13.2	Manure
Authorized to work as Local Expert for:			
Country/Countries	India		
Compliance check by: Anand S. R.			

<u>Certificate of Competence</u>						
Name	<input type="checkbox"/> Mr. <input checked="" type="checkbox"/> Ms.	Nguyen Hong Ngoc Trang				
Qualification Procedure	Fulfills the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GHG Projects.					
Appointed to work as:						
	CDM Validator/Verifier	Team Leader	Team Member	Technical Expert	Technical Reviewer	Financial Expert
Appointed	-	-	Yes	Yes	-	-
Appointed Date	13-06-2020					
Authorized to work as Technical Expert for:						
Authorized Technical Area	Sectoral Scope	TA Code	Technical Area within the scope			
	Waste handling and disposal	13.1	Solid waste and wastewater			
Authorized to work as Local Expert for:						
Country/Countries	Vietnam					
Compliance check by: Anand S. R.						

<u>Certificate of Competence</u>						
Name	<input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Ms.	Ma Paa Puratchikkanal				
Qualification Procedure	Fulfills the requirement as per the appointment of personnel procedure of 4KES for Validation and Verification of CDM/VCS/GS/GHG Projects.					
Appointed to work as:						
	CDM Validator/Verifier	Team Leader	Team Member	Technical Expert	Technical Reviewer	Financial Expert
Appointed	Yes	Yes	Yes	Yes	Yes	No
Appointed Date	27-04-2021					
Authorized to work as Technical Expert for:						
Authorized Technical Area	Sectoral Scope	TA Code	Technical Area within the scope			
	Energy industries (renewable - / non-renewable sources)	1.1	Thermal energy generation			
	Energy industries (renewable - / non-renewable sources)	1.2	Renewables			
	Energy demand	3.1	Energy demand			
	Construction	6.1	Construction			
	Waste handling and disposal	13.1	Solid waste and wastewater			
	Waste handling and disposal	13.2	Manure			
	Agriculture	15.1	Agriculture			
Authorized to work as Local Expert for:						
Country/Countries	India and Sri Lanka					

<u>Compliance check by:</u> Anand S. R.	
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Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	Project Participant	Revised Project Design Document	Version 5.0, dated 12/01/2022	Project Participant
2.	Project Participant	Approved revised PDD for 2 nd crediting period	Version 04.2, dated 24/06/2020	Publicly available
3.	TÜV NORD CERT GmbH	Validation Report (for 2 nd crediting period)	Revision No. 1.0, dated 26/06/2020	Publicly available
4.	UNFCCC	ACM0002 “Grid-connected electricity generation from renewable sources”	Version 20.0	Publicly available
5.	UNFCCC	Kyoto Protocol (1997)	Web Link	Publicly available
6.	UNFCCC	Project design document form	Version 12	Publicly available
7.	UNFCCC	CDM Project Standard for project activities	Version 03	Publicly available
8.	UNFCCC	CDM Validation and Verification Standard for project activities	Version 03	Publicly available
9.	UNFCCC	CDM project cycle procedure for project activities	Version 03	Publicly available
10.	UNFCCC	Glossary “CDM terms”	Version 10.0	Publicly available
11.	Vietnam Electricity Electric Power Trading Company	Electricity import from national 35 kV grid	Dated 24/11/2009	Project Participant
12.	Project Participant	Photos of name plate capacity of Turbine, Generator and Transformer	-	Project Participant

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

Table 1. CLs from this validation

CL ID	01	Section no.	D.6	Date: 04/01/2022
Description of CL				
As per appendix 5 of the approved revised PDD for 2 nd CP i.e. 11 Oct 17 - 10 Oct 24 /02/, there is a metering system (M1) for measuring the electricity imported from 35 kV grid for emergency case. Also there is one monitoring parameter i.e. EG _{y,import,35kV} (under section B.7.1 of the approved revised PDD for 2 nd CP) for the same. However as checked during the remote audit, 35 kV transmission line is no longer in use since commissioning date of Nam Chien 2 hydropower plant on 17/10/2009. PP need to clarify how the monitoring (for the monitoring period 11/10/2017 – 31/12/2020) was in compliance with the approved revised PDD for 2 nd CP.				
Project participant response				Date: 12/01/2022

The 35 kV transmission line is no longer in use since commissioning date of Nam Chien 2 hydropower plant on 17/10/2009, as under the letter from Vietnam Electricity Electric Power Trading Company dated 24/11/2009 which states why 35 kV is not required to use (EVN - EPTC sold electricity to the PP during the construction period of Nam Chien 2 hydropower project from 09/2007 to 10/2009 via 35kV grid. Such power supply has been stopped since commissioning). Therefore, the permanent change to the registered monitoring plan has been applied to remove the 35kV line, 35 kV power meter and monitoring parameter $EG_{y,import,35kV}$ from the monitoring plan.

Documentation provided by project participant

The official letter No.831/EPTC issued by EVN-EPTC on 24/11/2009 regarding the electricity import from 35kV national grid

The revised PDD for the PRC under CP2

DOE assessment

Date: 22/01/2022

Clarification has been provided by the PP and found OK. Validation team has checked the letter from Vietnam Electricity Electric Power Trading Company dated 24/11/2009 /11/ which clearly states that EVN sold electricity to the PP during the construction period of Nam Chien 2 hydropower project from 09/2007 to 10/2009 via 35kV grid. Such power supply has been stopped after commissioning i.e. since October 2009.

Further as per the EPTC letter /11/, EPTC received an official letter from PP on dated 09/11/2009 requesting to import electricity from 35kV grid for the internal use and EPTC responded as follows "EPTC is supplying electricity to the consumers via 110 kV grid and 35 kV grid. However, 110 kV grid is more stable and has less load loss than a 35 kV grid. In addition, these two grids are being operated in parallel; therefore, failure of the 110 kV grid also results in the failure of the 35 kV grid. Hence, the 35 kV grid is not recommended for the internal consumption of Nam Chien 2 hydropower plant. In normal operating circumstances, power supply via 110 kV grid significantly reduces load loss. Furthermore, the operation and maintenance of both grids at Nam Chien 2 hydropower plant will be costly for the Company and EVN. For the above reasons, EVN hereby rejects your request for importing electricity from 35 kV grid for internal consumption of Nam Chien 2 Hydropower Plant. It will be provided to the Plant via 110 kV only".

Hence PP has revised the monitoring plan which includes removal of the metering system (M1) and the monitoring parameter ' $EG_{y,import,35kV}$ ' which was used to calculate $EG_{facility,y}$. The revised equation for arriving $EG_{facility,y}$ is as below: $EG_{facility,y} = EG_{y,export} - EG_{y,import,110kV}$.

Therefore, with the permanent change, the emergency electricity import is still maintained and accounted in the project activity.

The permanent change to the registered monitoring plan as described in the revised PDD /01/ are in compliance with the applied methodology and do not reduce the level of accuracy and completeness in the monitoring of the project activity compared with the requirements contained in the registered monitoring plan. Further, the permanent change to the registered monitoring plan is not likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions or net anthropogenic GHG removals, hence meets paragraph 296, 297 and 298 of VVS version 03 /08/.

The change is as per paragraph 238 of project standard for project activities Version 03 /07/. For this change, PP has submitted the revised PDD /01/ in clean and track change mode in the latest available form and found OK. The changes are correctly reported in the revised PDD /01/. Hence this CL is closed.

Table 2. CARs from this validation

No CAR is raised during this validation

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

Table 3. FARs from this validation

No FAR is raised during this validation

FAR ID	xx	Section no.		Date: DD/MM/YYYY
Description of FAR				
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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	31 May 2019	Revision to: <ul style="list-style-type: none">• Ensure consistency with version 02.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN);• Make editorial improvements.
02.0	31 October 2017	Revision to align with the requirements in the “CDM validation and verification standard for project activities” (version 01.0).
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