



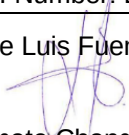
**Validation report form for post-registration changes for
CDM project activities
(Version 03.0)**

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	Poechos II hydroelectric plant project (ID N° 1836)
Process track	☐ Prior approval ☒ Issuance ☐ Renewal of crediting period
Version number of the validation report	2
Completion date of the validation report	02/03/2023
Type(s) of PRCs	☐ Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents ¹ ☒ Corrections ☐ Changes to the start date of the crediting period ☐ Inclusion of a monitoring plan ☒ Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents ☐ Changes to the project design ☐ Changes specific to afforestation and reforestation project activities
Version number of PDD to which this report applies	7
Project participants	Sindicato Energético S.A. VER CONSERVATION PTE LTD
Host Party	Perú
Applied methodologies and standardized baselines	Applied methodology: Version 06 of: "Consolidated baseline methodology for grid-connected electricity generation from renewable sources – ACM0002.
Mandatory sectoral scopes	Sectoral scope: Number: 1 Energy industries (renewable - / non-renewable sources).
Conditional sectoral scopes, if applicable	N/A
Name and UNFCCC reference number of	AENOR INTERNACIONAL, S.A.U. (AENOR)

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).

the DOE	Ref. Number: E-0021.
Name, position and signature of the approver of the validation report	Jose Luis Fuentes  Climate Change Manager

SECTION A. Executive summary

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AENOR INTERNACIONAL, S.A.U. (hereinafter AENOR) has performed the fourth verification of first crediting period for emissions reductions of the project "Poechos II hydroelectric plant project" (Registration Ref No. 1836). During the verification, it was identified the crosscheck procedures were not in accordance with the registered monitoring plan due to the inclusion of a meter, identified by PP as a small electrical system (SES). Therefore, the crosscheck procedure was updated in order to consider the records of this meter. Thus, PP has included a permeant change in the monitoring plan. In addition, PP has updated the participants in order to be in conformance with UNFCCC webpage (withdrawn PP was removed from the PDD)

The purpose of the Poechos II Hydroelectric Plant Project is to generate electricity, utilizing renewable energy sources, to be supplied to the Peruvian National Inter-Connected Electric Grid (SEIN). Poechos II's installed capacity is 10 MW. The Project generates electricity without emitting GHGs and reduce anthropogenic GHG emissions by displacing GHGs that would have been emitted if fossil fuels were burned to generate power.

Poechos II takes advantage of the existing Poechos dam, which was constructed between 1971 and 1974 exclusively for the Chira-Piura irrigation system. However, local regulation stipulates that water discharges for agricultural have priority over water required for power generation and water discharges are managed by the Agricultural Authority of the Piura Region.

The objective of the validation process is to have an independent third-party assessment of the monitoring plan changes against the applicable CDM requirements. In particular to assess the impact on methodology applicability, scale and project emissions.

The scope of the validation includes the assessment of the revised PDD against applicable methodological requirements to determine whether actual changes would adversely affect the conclusions of the validation report of the registered PDD with regard to:

- a) The applicability and application of the applied methodology.
- b) The compliance of the monitoring plan with the applied methodologies,
- c) The changes in the monitoring plan is not likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions.
- d) The changes in the monitoring plan comply with the relevant requirements in the "CDM project standard for project activities"

The validation is not meant to provide any consultancy services to the Client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the PDD

The validation was performed through means of the following the requirements of CDM validation and verification standard for project activities, version 03.0, the applied methodology, and relevant CDM rules. The process of the validation included:

- i. Review of data and information;
- ii. Cross checks between information provided in the PDD and information from sources;
The resolution of outstanding issues;

In AENOR's opinion the post registration changes correctly applies and meets the relevant UNFCCC requirements for the CDM project activities and the relevant host country criteria.

SECTION B. Validation team, technical reviewer and approver

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B.1. Validation team member

No.	Role	Signature	Last name	First name	Affiliation	Involvement in
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					(e.g. name of central or other office of DOE or outsourced entity)	Desk/document review	On-site inspection	Interviews	Validation findings
1.	Team Leader	IR	Gonzales Toledo	Richard Daniel	AENOR PERU	Yes	Yes	Yes	Yes

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	I	Arribas Alonso	Luis Javier	AENOR
2	Approver	I	Fuentes Perez	José Luis	AENOR

SECTION C. Means of validation

C.1. Desk/document review

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The desk review involved:

- Registered PDD, version 6, dated on 13/06/2011. /1/
- Revised PDD, version 7, dated on 02/03/2023. /2/
- Revised PDD, version 7, dated on 02/03/2023. (track changes) /3/
- ACM0002: Consolidated baseline methodology for grid-connected electricity generation from renewable sources (version 06) /4/
- Validation report, revision No 01, dated on 12/09/2008 /5/
- Validation opinion on changes in PDD, version 02, dated on 28/09/2011/ /6/
- Electric line diagram /7/
- COES letter approval for commercial operation of the new transformer /8/
- COES statistics 2016 /9/
- CDM project standard for project activities. Version 03.0 /10/
- CDM validation and verification standard for project activities, Version 03.0. /11/
- Validation, Verification and Certification of CDM Project Activities (IE/DTC/039) /12/

A complete list of all documents reviewed is attached in Appendix 3.

C.2. On-site inspection

Duration of on-site inspection: 13/10/2022 to 15/10/2022				
No.	Activity performed on-site	Site location	Date	Team member
1.	1. Power plant inspection 2. Review of operating and measurement records. 3. Generation data validation 4. Controls established to detect and correct any error or omission in monitoring parameters 5. Testing of monitoring equipment and observation of monitoring practices where risks are detected.	hydroelectric power plant	14/09/2022	Richard Daniel Gonzales Toledo

	6. New meter installation			
2.	1. Monitoring report information	Headquarters	15/09/2022	Richard Daniel Gonzales Toledo

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Contreras	Victor	Superintendent of the hydroelectric power plant	13/09/2022	1.1 1.2	Richard Daniel Gonzales Toledo
2	Rios	Igor	Deputy Superintendent of the hydroelectric power plant	13/09/2022	1.3 1.4 1.5 1.6	Richard Daniel Gonzales Toledo
3	David	Lima	Power plant operator	13/09/2022	1.2 1.3 1.4	Richard Daniel Gonzales Toledo
4	Monsalve	Claudia	CDM consultant	15/09/2022	2.1	Richard Daniel Gonzales Toledo

C.4. Sampling approach

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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	-	-	-
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents	-	-	-
Corrections	-	-	-
Changes to the start date of the crediting period	-	-	-
Inclusion of a monitoring plan	-	-	-
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents	CL 1	-	-
Changes to the project design	-	-	-
Changes specific to afforestation and reforestation project activities	-	-	-
Others (please specify)	-	-	-
Total	1	-	-

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	The compliance of the PDD with the valid version of the form was checked through desk-review of last version of the PDD (version 7) /2/, last version of applicable form, which includes in its attachment the instructions for filling out it, CDM rules and references and supported documents provided by the project participants.
Findings	No findings were found regarding this issue.
Conclusion	The PDD was completed in the version 12.0 of the form, latest version valid. The audit team checked that the information transferred to the later valid version of

	the PDD is materially the same as that in the registered PDD, except for the relevant sections, which were updated in accordance with the relevant requirements in the Project standard (section of the PDD relating to the monitoring plan). In AENOR's opinion the final version of the PDD has been completed using the latest version of the applicable form and has followed the instructions for filling out attached at the end of the form.
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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	N/A
Findings	N/A
Conclusion	N/A

D.3. Corrections

Means of validation	PP has updated the project design document due changes in the monitoring plan. Jointly decided to update the project participants: Withdrawn PP was removed from PP and updated the PDD considering the authorized PPs. VERT CONSERVATION PTE LTD has been included in the updated PDD as participant in accordance with UNFCCC website. This correction was verified against public information on the UNFCCC website in order to confirm the validity of listed project participants.
Findings	No finding were raised regarding this issue.
Conclusion	Validation team, in accordance with the paragraph 288 of VVS, confirms that the corrected information is an accurate reflection of actual project information. No fixed neither monitoring parameters were corrected.

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

Means of validation	N/A
Findings	N/A
Conclusion	N/A

D.5. Inclusion of a monitoring plan

Means of validation	N/A
Findings	N/A
Conclusion	N/A

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	During the verification was identified a meter, identified by PP as a small electrical system (SES), recording energy in Poechos I. Due to the net energy registered by Poechos I is used in the monitoring plan for crosschecking, verification team requested a clarification due inconsistency in the crosscheck spreadsheets and meter's raw data. Thus, PP has included a permanent change in the monitoring plan (only for updating the crosscheck). Poechos I does not have its own electricity meter, its electricity generation is calculated by the difference between "the electricity metered at Sullana Substation plus the electricity metered at SES" and the electricity metered at Poechos II (MWh Poechos I = MWh Sullana + MWh SES – MWh Poechos II). Consequently, the sum of net electricity delivered to the grid and eligible for CERs calculations of both projects (Poechos II and Poechos I) is the electricity metered at Sullana Substation+ the electricity metered at SES; thus transformation and transmission losses from both projects are absorbed by Poechos I. Previous monitoring plan stated that: <i>"every monitoring period to verify that the sum of electricity reported of Poechos II and Poechos I in each hour is equal to the net electricity metered in Sullana. (MWh Poechos I + MWh Poechos II = MWh Sullana)"</i>. Therefore, in order to considering the SES meter, it was updated as follow: <i>"every monitoring period to verify that the sum of electricity reported of Poechos II and Poechos I in each hour is equal to the net electricity metered in Sullana plus the electricity meterd in SES. (MWh Poechos I + MWh Poechos II = MWh Sullana + MWh SES)"</i> Consequently, the sum of net electricity delivered to the grid and eligible for CERs calculations of both projects (Poechos II and Poechos I) is the electricity metered at Sullana Substation + the electricity metered at SES, thus transformation and transmission losses from both projects are absorbed by Poechos I. In order to ensure the accuracy of the measurement, the PP has developed a spreadsheet "Poechos II EGh net electricity check.xls", which will be used in every monitoring period to verify that the sum of electricity reported of Poechos II and Poechos I in each hour is equal to the net electricity metered in Sullana plus the electricity meter in SES (MWh Poechos I + MWh Poechos II = MWh Sullana + MWh SES) Furthermore, all the equipment involved in the measure of the energy generated will be calibrated according to the Peruvian legislation and at least once every 3 years and all energy generated by Poechos I and Poechos II will be crosschecked against the invoices emitted by COES and ENOSA The installation of new meter (SES) was confirmed against electric line diagram /7/; COES letter approval for commercial operation of the new transformer /8/ and COES statistics 2016 /9/. Verification team confirmed that the changes do not affect the applied methodology /4/. Also, it was reviewed whether the changes are in line with the Project standard requirements /10/ and the validation and verification standard /11/. Based on provided evidence, verification confirmed that Poechos I power plant has delivered energy to the company ENOSA in the small electric system (SES), since 1 January 2016.
Findings	During the verification the CL 1 was raised due raw data from meter located in Sullana substation (used to check the sum of Poechos I and Poechos II generation) are different from data used in the spreadsheet "Poechos II EGh net electricity check". As a consequence, PP has updated the monitoring plan.
Conclusion	Validation team assessed monitoring plan in registered PDD /1/ and revised

	(updated) PDD /2/ in order to confirm the changes included. Then, according to the VVS (paragraphs 296 to 299), AENOR is able to confirm that this change do not affect: • The applicability and application of the applied methodology. • The changes in the monitoring plan is not likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions. • the changes in the monitoring plan comply with the relevant requirements in the “CDM project standard for project activities
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D.7. Changes to the project design

Means of validation	N/A
Findings	N/A
Conclusion	N/A

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

Means of validation	N/A
Findings	N/A
Conclusion	N/A

SECTION E. Internal quality control

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Following the completion of the assessment process by the validation team, all documentation undergoes an internal quality control through a technical review before the request the validation. The Technical reviewer is a qualified member of AENOR, independent from the team that carried out the validation of the PRC of the project activity. The technical reviewer or the team appointed for the technical review is qualified in the technical area and sectoral scope of the project activity

SECTION F. Validation opinion

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AENOR has performed a validation of changes from the project activity as described in the registered Project Design Document of the CDM Project reference 1836 “Poechos II hydroelectric plant project”, including the changes in the monitoring plan.

The review of the revised documentation and the subsequent follow-up interviews has provided AENOR with sufficient evidence to determine the fulfilment of all stated criteria. Conform to the above information, AENOR determines that:

A) The change in the PDD would not impact the following aspect:

- Additionality of the project activity.
- Scale of CDM project activity.
- Applicability and application of Approved Baseline Methodology under which the project activity has been registered.
- The overall operation of the project activity to deliver emission reductions as stated in the registered PDD.
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B) The proposed revision monitoring plan:

- Ensures the level of accuracy
- Is in accordance with the approved monitoring methodology applicable to the project activity, ACM0002, version 06.0.

In AENOR’s opinion, as per paragraphs 288 of the VVS the corrected information, detailed in section D.3. is an accurate reflection of actual project information. In addition, according to the VVS (paragraphs 296 to 299), AENOR is able to confirm the permanent changes of the monitoring plan

(detailed in section D.6.) do not affect the applicability and application of the applied methodology; the changes in the monitoring plan is not likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions; the changes in the monitoring plan comply with the relevant requirements in the “CDM project standard for project activities; and the information transferred to the later valid version of the PDD is materially the same as that in the registered PDD, except for the relevant sections, which were revised due to the corrections and permanent changes to the monitoring plan.



Richard Daniel GONZALES TOLEDO
Team Leader



Jose Luis FUENTES PEREZ
Climate change Manager

Madrid, March 2, 2023.

Appendix 1. Abbreviations

Abbreviations	Full texts
ACM0002	Large-scale Consolidated Methodology: Grid-connected electricity generation from renewable sources, Version 06
AENOR	AENOR INTERNACIONAL, S.A.U.
CAR	Corrective action request
CDM	Clean development mechanism
CDM-EB	CDM Executive Board
CER	Certified emission reduction
CL	Clarification request
COES	National Interconnected System Operational Committee
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
DNV	Det Norske Veritas
DOE	Designated operational entity
ER	Emission reduction
FAR	Forward action request
GHG	Greenhouse gas(es)
IPCC	Intergovernmental Panel on Climate Change
MoV	Means of verification
MP	Monitoring Plan
MR	Monitoring report
MW	Megawatt
SEIN	Peruvian national electricity grid
N/A	Not Applicable
PCP	CDM project cycle procedure for project activities, Version 03.0
PDD	Project Design Document
PP	Project participants
PS	CDM project standard for project activities, Version 03.0
SES	Small electrical system
VVS	CDM validation and verification standard for project activities, Version 03.0

Appendix 2. Competence of team members and technical reviewers

CERTIFICATE OF QUALIFICATION

Subject: Verification and Technical Review Team for "Poechos II hydroelectric plant project"

Madrid, 02/03/2023

Hereby I confirm the following records of qualification, according with AENOR internal instruction "Validation, Verification and Certification of Clean Development Mechanism (CDM) project activities" IE-DTC-039, and with regard to the verification process of the above-mentioned project activity:

Name: Richard Daniel GONZALES TOLEDO

CDM team leader: Yes

CDM validator: Yes

CDM verifier: N/A

CDM technical reviewer: N/A

External technical expert: N/A

Technical areas related with the project activity: 1.2. Renewables



Jose Luis Fuentes
Climate change manager

CERTIFICATE OF QUALIFICATION

Subject: Verification and Technical Review Team for "Poechos II hydroelectric plant project"

Madrid, 02/03/2023

Hereby I confirm the following records of qualification, according with AENOR internal instruction "Validation, Verification and Certification of Clean Development Mechanism (CDM) project activities" IE-DTC-039, and with regard to the verification process of the above-mentioned project activity:

Name: Luis Javier ARRIBAS ALONSO

CDM team leader: N/A

CDM validator: Yes

CDM verifier: N/A

CDM technical reviewer: Yes

External technical expert: N/A

Technical areas related with the project activity: 1.2. Renewables



Jose Luis Fuentes
Climate change manager

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	PP	Registered PDD	version 6, dated on 13/06/2011	UNFCCC Website
2	PP	Revised PDD	version 7, dated on 02/03/2023	PP
3	PP	Revised PDD (track changes)	version 7, dated on 02/03/2023	PP
4	CDM-EB	ACM0002: Consolidated baseline methodology for grid-connected electricity generation from renewable sources	version 06	UNFCCC Website
5	DNV	Validation report	revision No 01, dated on 12/09/2008	UNFCCC Website
6	AENOR	Validation opinion on changes in PDD,	version 02, dated on 28/09/2011	AENOR
7	PP	Electric line diagram	-	PP
8	Dispatch Centre -COES	COES letter approval for commercial operation of the new transformer	17/01/2017	COES website
5	Dispatch Centre -COES	COES statistics 2016	2016	COES website
10	CDM-EB	CDM project standard for project activities.	Version 03.0	-
11	CDM-EB	CDM validation and verification standard for project activities	Version 03.0	-
12	AENOR	Validation, Verification and Certification of CDM Project Activities (IE/DTC/039)	-	AENOR

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:	30/09/2022
Description of CL					
Raw data from meter located in Sullana substation (used to check the sum of Poechos I and Poechos II generation) are different from data used in the spreadsheet "Poechos II EGh net electricity check". Therefore, PP is requested to clarify the reason of this inconsistency.					
Project participant response					Date: 25/10/2022
The description of the EGh sheet has been modified in order to include the energy delivery by the hydroelectric plant Poechos I project to a small electrical system (SES). The monitoring plan has been updated. The net energy delivered to the grid by Poechos I is metered at two points: 1) meter of SE Sullana and 2) meter of SES. The data from the meter located in Sullana substation used in the spreadsheet "Poechos II EGh net electricity check have been corrected					
Documentation provided by project participant					
Poechos II EGh					
DOE assessment					Date: 10/11/2022
Section B.2.5. of the MR has not included the permanent changes to the registered monitoring plan. Neither the updated PDD has been provided. CL 2 remains open.					
Project participant response					Date: 28/11/2022
Section B.2.5. of the MR have been updated. Included changes that are being submitted with this monitoring report as part of the request for issuance. The updated PDD has been provided.					
Documentation provided by project participant					
CDM - PDD POECHOS II (28.11.2022) with track change Monitoring Report Poechos II Hydropower plant 01.01.2016 to 31.03.2016 Vs3 (28.11.2022)					
DOE assessment					Date: 24/01/2023
PP has updated the PDD in order to include the changes in the registered monitoring plan. Then, CL 1 is closed.					

Table 2. CARs from this validation

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

Table 3. FARs from this validation

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

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	31 May 2019	Revision to: • 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).
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Registration Keywords: post-registration change, project activities, validation report		