



VALIDATION REPORT FOR “LAS PIZARRAS PROJECT”



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Project title	Las Pizarras Project
Project ID	1348
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Summary:

A description of the validation and the project

The validation for renewal of crediting period for the project titled 'Las Pizarras Project' VCS ID – 1348, has been undertaken by SustainCERT, with accordance to the relevant VCS standard, V4.7^{/1/}, VCS Program Guide, V4.4^{/2/}. Relevant requirements of the ISO 14064-2 and ISO 14064-3, as well as applicable criteria for consistent project operations, project description have been applied for validation for second crediting period.

As crosschecked during the site visit, the project VCS1348 consists of run-of-river hydroelectric power project located on the high basin of the Chancay river, in the district of Santa Cruz y Sexi, province of Santa Cruz, region of Cajamarca, in Peru. 19.992 MW is the total installed capacity of the Project is , with an electricity generation potential of 106.598 GWh per year. The Project was implemented in April 2023 by “Empresa Eléctrica Río Doble S.A.”

The project aims to generate clean electricity and displace the electricity generated by power plants within the SEIN, which include fossil-fuel based power plants emitting CO₂ that would lead to carbon emissions.

The purpose and scope of validation

Purpose:

The independent validation service is provided by SustainCERT for the project activity 1348 is to perform ifor renewal of crediting period. The validation of the project is an independent review and determination of ex-ante parameters by SustainCERT in accordance with the VCS standard, V4.7^{/1/}, VCS Program Guide, V4.4^{/2/}, the Project baseline and host party criteria.

Scope of Validation:

The validation scope is the objective and independent review of the project design document submitted for renewal of the crediting period, the reassessed baseline for the project, monitoring plan and other relevant documents. The information in these documents is reviewed against requirements of applicable conditions of the selected CDM methodology, and VCS

Program. SustainCERT has used a risk-based approach in the validation for renewal of crediting period, focusing on the identification of significant risks for project implementation and the estimated ERs.

The scope of validation is to establish/validate that:

- The original baseline scenario is assessed. Such assessment included an evaluation of the impact of new relevant national and/or sectoral policies and circumstances on the validity of the baseline scenario. If the original baseline scenario is no longer valid, the current baseline scenario would be established in accordance with the VCS Program rules.
- Determined if the original baseline scenario is still valid, the GHG emissions associated with the original baseline scenario are reassessed using the latest version of the CDM Tool to assess the validity of the original/current baseline and to validate if the baseline is updated at the renewal of a crediting period.
- .
- Review of project information, monitoring plan specifically monitoring frequency, quality assurance and quality control system against applicable VCS standard and applied methodology VCS Methodology from Sectoral Scope 1 – ACM0002 Grid-connected electricity generation from renewable sources, V22.0.

The method and criteria used for validation

Desk Review:

Onsite audit Interview with the relevant personnel to confirm the implementation of the project with paying particular attention to the operational and data collection procedures, in accordance with the applicable VCS standard and methodology.

- A detailed cross check of the information provided in the project design document against the relevant evidence such as data sources and technical specification of measuring equipment.
- A detailed cross check of the calculations made for the estimation of greenhouse gas emissions.
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emissions reduction.

The number of findings raised during validation

A risk-based approach has been followed for the verification of the project. 03 CAR, 07 CLs and 00 FARs were raised during verification. All the issues raised were resolved successfully, details of which can be found in Appendix 3 of the report.

Any uncertainties associated with the validation

The assessment team thoroughly reviewed the Project design document and the emission reduction calculation sheet against the relevant evidence and applicable VCS requirements, VCS standard V4.7^{/1/} and VCS guideline V4.4^{/2/}. It has been concluded that there are no more uncertainties associated with the project.

Summary of the validation conclusion

The review of Project description document, emission reduction calculation sheet along with relevant supporting evidence and the interview with relevant personnel during onsite audit on 09/10/2024^{/10/} have provided the assessment team with sufficient evidence to confirm to the applicable criteria and meet reasonable level of assurance. SustainCERT S.A. confirms the project activity “Las Pizarras Project” has been successfully implemented in accordance with the VCS requirements and applied methodology “ACM0002 v22.0”^{/7/}. Based on the information seen and evaluated we confirm that the original baseline is in place for renewal of crediting period as there are no new national and/or sectoral policies that have come into effect after the submission of the project for the first validation that are applicable to the project activity.

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1 INTRODUCTION

1.1 Objective

The validation for renewal of crediting period of the project titled “Las Pizarras Project” VCS ID – 1348, has been undertaken by SustainCERT S.A, as requested by Empresa Eléctrica Río Doble S.A. for the crediting period 30-April-2023 - 29-April-2033 (including both the days). The purpose of the validation is to conduct the independent review of the project information and confirm:

- The project activity is implemented and operated in accordance with VCS Standard v 4.7.
- All physical features (technology, project equipment, monitoring and metering equipment) are in place^{7/}.
- The reassessed baseline for the project, monitoring plan are in accordance with the approved methodology including applicable tool(s) and VCS Standard v 4.7.
- The reassessed baseline for the project, monitoring plan, are as per the monitoring methodology “ACM0002 - Grid-connected electricity generation from renewable sources, V22.0

The validation followed the requirements mentioned in the VCS standard, V4.7/1/ and VCS guidelines, V4.4/2/ ensuring the quality and consistency of the report.

1.2 Scope and Criteria

The scope of validation for this project activity involves assessing the claims made by the project proponent in the Project design document^{8/}, emission reduction calculation sheet^{9/} and other supporting evidence (as mentioned in appendix 2) made available to the validator for renewal of crediting period 30-April-2023 - 29-April-2033, in accordance with:

- VCS standard, V4.7^{1/}
- VCS program guideline
- V4.4^{2/} VCS Methodology from Sectoral Scope 1 – Grid-connected electricity generation from renewable sources. V22.0^{7/}

A risk-based approach has been followed for the validation of the project activity. Identifying and assessing the high-risk area and ensuring the reliability of the project’s emission reductions generated.

The principles of accuracy, completeness, relevance, reliability and credibility were combined with a conservative approach to establish a traceable and transparent validation opinion based on risk-based approach. The validation has considered both quantitative and qualitative information on emission reductions. The validation is not meant to provide any consultancy towards the client.

1.3 Reasonableness of Assumptions

The validation is planned and organized to establish the reasonableness of the assumptions, limitations, and methods that reinforce the PP's claims about the reassessed baseline and achievement of the Emission Reductions for the Project.

The Validation Team ascertained the claims made for this VCS Project are according to the VCS regulatory requirements and are suitable to occur during the operation of the Project, hence the claims are reasonable, including the assumptions, limitations and methods established by the PP supporting these claims.

1.4 Summary Description of the Project

The Project activity "Las Pizarras Project" is a Hydro power project located on the Chancay river in the Cajamarca region of Peru. The project involves Generation of electricity using renewable energy and displacing the equal amount of energy generated by fossil fuels dominated grid. The project activity consists of 2 Francis Horizontal Axis turbines with a total capacity of 19.992 MWe^{/5//6//8//12//14/16}. Technical specification of the installed technology is mentioned in section 1.12 of the PD^{/8/} and, same was also cross checked on the site visit conducted on 09/10/2024^{/10/}. During the site visit^{/10/}, it has also been confirmed that baseline is same as originally validated PD for first crediting period and there are no new infrastructures built that could impact the emission reductions.

The Project Proponent for the project activity is Empresa Eléctrica Río Doble S. A. and was interviewed during onsite audit, more details can be found from section 2.3 and 2.4 of the Validation report. There has been other entity involved in the project, as consultant, NTT Data as validated during onsite audit^{/10/}. The start date of the project activity is 30/04/2013, the same has been validated during the onsite audit and cross verified during the previous verifications^{/12//14/16/} of the project. The project activity is undergoing renewal of crediting period from 30/04/2023 to 29/04/2033, and during renewal of crediting period the project activity there are no new national and/or sectoral policies that have come into effect for the project^{/10/26/} hence the first validation that are applicable to the project activity. Moreover, there have not been relevant changes to the original circumstances in the market that could affect the applicability of the original baseline scenario therefore original baseline remains valid for renewal of the crediting period. Lastly PP has employed same equipment as first crediting period because in accordance with the manufacturer's reports, the turbines have a useful lifetime of 40 – 50 years^{/18/}.

The details and calculations of the emission reductions have been verified and are found to be as per the guidelines of the applied methodology ACM0002, v 22.0 ^{/7/}, and guidelines mentioned in VCS standard^{/1/}. The required monitoring system is in place and operational, the same was validated during the onsite audit^{/10/}. The meters comply with appropriate quality standards applicable to the technology. The accuracy class of the meters installed for the project activity was verified during previous verifications^{/12//14/16} and using photographic evidence collected onsite^{/10/} during this verification.

During the onsite audit, it was concluded that the project is implemented as per the requirement of the VCS Standard v4.7^{/1/}. During the onsite visit, it was observed that no unforeseen incident or event occurred which can impact the operation of the project activity. Also, the project activity has undergone scheduled maintenance^{/19/} as per the onsite operation and maintenance protocols which is acceptable to the assessment team.

2 VALIDATION PROCESS

2.1 Method and Criteria

The Registered Project activity is undergoing renewal of the Crediting period 30/04/2023 to 29/04/2033 (renewable, twice), the approach adapted to ensure the quality and credibility of emission reduction is described in the following sections. A risk-based approach has been applied for the process.

The method and criteria used for verification consist of following phases:

Desk review:

To verify the completeness of the data and the information presented in the Project description document^{/8/}, emission reduction calculation sheet^{/9/} and other evidence like calibration records^{/22/}, and maintenance records^{/19/}, including all the other evidence mentioned in Appendix 2 of the report were strategically reviewed and risk assessment was undertaken.

Project activity sources contributing to the leakage as well as project emissions are assessed.

Evaluation of the data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

Onsite audit for the project was conducted on 09/10/2024 to:

Interview of the project representatives^{/10/} and to confirm the validity of the baseline, implementation and operational status of the project with respect to the submitted monitoring plan^{/5/}.

Assessment team has reviewed the data flow for generating, aggregating and reporting the monitoring parameters, confirmed the correct implementation of procedures for operations and data collection, cross-checked the information provided in the Project description documentation with other sources, checked the monitoring equipment against the requirements of the PD^{/5/} in accordance with VCS standard v4.7^{/1/} and the applied methodology^{/7/}, including calibrations, maintenance, etc.,

VVB has further reviewed the calculations and assumptions used to obtain the GHG data and ER.

Assessment team validated^{/10/} the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters.

Further, details regarding the process of onsite audit have been mentioned in section 2.3 and 2.4 of the report. Resolution of all the issues and findings raised, and the final validation statement was issued.

2.2 Document Review

As part of validation of the project, the primary activity performed was the strategic review and risk assessment of the documents submitted using a dedicated protocol. A detailed review of PD^{/8/} and ER sheet^{/9/} was done to check:

The completeness of the information with reference to VCS Standard v 4.7^{/1/} and applied methodology^{/7/}

Checked the validity of the current baseline for the renewal of the crediting period by:

Assessing if current baseline has complied with all relevant mandatory national and/or sectoral policies which have come into effect after the submission of the project activity for validation or the submission of the previous request for renewal of the crediting period and are applicable at the time of requesting renewal of the crediting period.

Assessing the impact of circumstances existing at the time of requesting renewal of the crediting period on the current baseline emissions, without reassessing the baseline scenario.

Assessing whether the remaining technical lifetime of the equipment that would have continued to be used in the absence of the project activity, as determined in the CDM-PDD or CDM-PDD-REN, exceeds the crediting period for which renewal is requested.

Assessing whether data and parameters that were only determined at the start of the crediting period and not monitored during the crediting period are still valid or whether they should be updated.

Review of project information, technical specification^{/18/}, metering equipment calibration^{/22/} requirement, quality assurance and quality control system against applicable VCS standard^{/1/}, applied tool and methodology.

A review of the QA/QC procedures were conducted to make sure the implementation is as per the applicable VCS standard, applied methodology and tool.

All the other evidence reviewed is mentioned in Appendix 2 of this report. The cross checks between information provided in the VCS PD^{/5/} and information from sources other than those used, if available, the team's sectoral or local expertise and, if necessary, independent background investigations.

2.3 Interviews

In accordance with VCS standard, V4.7^{/1/}, site visit requirements, "A site visit that includes a visit to facilities and/or project areas shall be conducted at renewal validation in accordance with section 4.1.11 of the VCS Standard v 4.7. The project is currently undergoing Renewal of the crediting period. Therefore, onsite audit was conducted during the renewal validation on 09/10/2024^{/10/}. During the onsite audit for the renewal validation, interview of the relevant project personnel and local stakeholders were conducted validating the validity of original baseline scenario^{/26/}, implementation and operational status of the project, the similar information was also cross verified using the evidence submitted by PP (as mentioned in Appendix 2 of the report). Detail of the personnel interviewed can be found in the table below:

Date of onsite Interview: 09/10/2024				
S.No	Name of the person	Affiliation	Details Discussed	Team member
1	Giobany Cuavoy	Operations Manager	Project Baseline, implementation, calibration procedure Monitoring, and measuring system. Collection of measurements environmental concerns, entities involved, property rights, benefit sharing, technical specifications, Project ownership.	Carlos Orbegozo Reto

2.	Cesar Fernandez	Plant Manager	Project Baseline, calibration, implementation, Monitoring, and procedure measuring system. Collection of measurements environmental concerns, entities involved, property rights, benefit sharing, technical specifications, Project ownership.	Carlos Orbegozo Reto
3.	Nely Rocio Devila Perales	Justice of the Peace (Local Stakeholder)	Grievance mechanism, labour and work rights, human rights, Cultural heritage, discrimination at workplace	Carlos Orbegozo Reto
4.	Segundo Leopoldo Asenso	Villager (Local Stakeholder)	Grievance mechanism, labour and work rights, human rights, Cultural heritage, discrimination at workplace	Carlos Orbegozo Reto
5.	Sonia Violeta Bravo Davila	Chairwoman Committee (Local Stakeholder)	Grievance mechanism, labour and work rights, human rights, Cultural heritage, discrimination at workplace	Carlos Orbegozo Reto
7.	Sixto Renan Calderon Guerrero	Assistant Operator	Grievance mechanism, labour and work rights, human rights, Cultural heritage, discrimination at workplace	Carlos Orbegozo Reto
8.	Jose Coba Chavez	Assistant Operator (Local Stakeholder)	Grievance mechanism, labour and work rights, human rights, Cultural heritage, discrimination at workplace	Carlos Orbegozo Reto

The local stakeholder interviewed are the local people from the region. By the interview it was concluded that the local people were aware of the grievance mechanism and there were no negative comments from local stakeholder's side. Instead, the local people appreciated the development and job created by the project activity in that area. Stakeholder grievance procedure was also checked in details during on-site visit^{/10/}. Thus, a reasonable level of assurance was met.

2.4 Site Visits

As Discussed above, the physical site visit for the project was conducted for the renewal of the crediting period. Details and description of areas assessed can be found below:

Duration of the On-Audit: 09/10/2024			
S.No	Assessment Criteria	Means of Verification	Assessment Opinion
1	The assessment of the validity of original baseline, implementation and operation of the registered project activity	VCS Standard v 4.7 Interviews with PP during the project site visit ^{/10/} Assessed SEIN website ^{/26/}	The information mentioned with reference to validity of original project baseline, implementation found consistent with the documents and information received during interviews.
2	A review of estimated emission reduction, Emission factor and reporting the monitoring parameters.	Emission factor calculation sheet in accordance with CDM Tool 7, ER Spreadsheet. Interviews with PP ^{/10/}	The information related to emission factor and bases of estimated emission reduction and reporting the monitoring parameters mentioned in PD is found to be consistent with documents crosschecked and information received by interviews.

3	A check of the monitoring equipment including calibration performance against the requirements of the VCS Standard v 4.7, the applied methodology including the tools applied	Calibration records ^{/22/} Interviews with PP ^{/10/}	Calibration records were validated based on calibration records submitted with interview from PP, and it has been observed that all the practices are found to be in line with VCS Standard v 4.7, methodology and host country requirement
4	An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters	Interview with PP ^{/10/}	Methods, formulae, and emission factors for calculating baseline emissions have been followed in accordance with the applied methodology ^{/7/} and CDM tools. All the QA/AC procedures were also verified on-site.

Most of the reference document referred by the assessment team (above table) are checked and validated during the desk review and also validated during onsite visit, hence is deemed authentic.

The assessment team has validated all the primary supporting documents related to validity of the original baseline, operations, quality, calibration details, interview with onsite persons etc (refer appendix 2). Also, cross check the information in accordance. with previous reports^{/12//14/16/}. Thus, a reasonable level of assurance is achieved

2.5 Resolution of Findings

As discussed above, a risk-based approach has been applied for the renewal validation of the project activity. During the validation for renewal of the crediting period, assessment team identified the issues which could impact the accuracy and the credibility of the emission reduction estimated by the project, The details analysis of the issues raised the approach used to resolve these issues can be found in Appendix 3 of this report.

A corrective action request was raised if:

- Modifications to the implementation, operation, and monitoring of the registered project activity have not been sufficiently documented by the project participants.
- Mistakes have been made in applying assumptions, data, or calculations of emission reductions that will impact the number of emission reductions.

A clarification request was raised if:

Information is insufficient or not clear enough to determine whether the applicable requirements have been met.

A Forward action request was raised if:

If the monitoring and reporting require attention and/or adjustment for the next verification period.

During verification a total of 03 CARs, 07 CLs and 00 (Nil) FARs were raised. The details of all the issues communicated to the PP can be found in the Appendix 3. The issues raised were closed successfully.

2.5.1 Forward Action Requests

The project activity is undergoing validation for Renewal of crediting period, monitoring period from 30/04/2023 to 29/04/2033. There are no FARs raised during the renewal of crediting period.

3 VALIDATION FINDINGS

3.1 Project Details

The Project activity “Las Pizarras Project” is a Hydro power project located on the Chancay river in the Cajamarca region of Peru. The project involves Generation of electricity using renewable energy and displacing the equal amount of energy generated by fossil fuels dominated grid. The project activity consists of 2 Francis Horizontal Axis turbines with a total capacity of 19.992 MWe^{/5/6/8/12/14/16/}. Technical specification of the installed technology is mentioned in section 1.12 of the PD^{/8/} and has been cross checked with initial PD^{/5/}, and previous Monitoring Period MR^{/13/15/17/}, same was also cross checked on the site visit conducted on 09/10/2024^{/10/}. During the site visit^{/10/}, it has also been confirmed that there are no new infrastructures built that could impact the emission reductions and project applicability.

The Project Proponent for the project activity is Empresa Eléctrica Río Doble S. A. was interviewed during onsite audit, more details can be found from section 2.3 and 2.4 of the Validation report. Other entities play key roles in the project. SMARTENER oversees the control, organization, monitoring, maintenance, and performance of the project. NTT Data serves as a consultant, handling the monitoring report and emission reduction calculations for the verification process. These entities were validated during the onsite audit^{/10/} and through contract agreements^{/23/} provided by the PP. The start date of the project activity is 30/04/2013, the same has been validated during the onsite audit and also cross verified during the previous verifications^{/12//14/16} of the project. The project activity is undergoing renewal of the crediting period from 30/04/2023 to 29/04/2033, and during this renewal validation validity of original baseline which is the National Interconnected Electricity Grid (SEIN)^{/26/} is confirmed.

During the onsite audit, it was concluded that the project is implemented as per the requirement of the VCS Standard v 4.7^{/1/}. During the renewal of the crediting period, it was observed that no unforeseen incident or event occurred which can impact the operation of the project activity, and validity of the original baseline was validated during the onsite visit^{/10/}. Also, the project activity has undergone scheduled maintenance^{/19/} as per the onsite operation and maintenance protocols which is acceptable to the assessment team.

Item	Evidence gathering activities, evidence checked, and assessment conclusion			
Audit history	Assessment team has crosschecked validation report for first crediting period and verification reports of previous monitoring period available on the verra registry ^{/4/} . VVB confirms that information provided by PP is accurate.			
	Audit type	Period	Validation/ verification body name	Number of Years
	Validation	09-September-2014	AENOR International S.A.U.	10 Years
	Verification (1st Monitoring Period)	30-April-2013 -- 30-September-2015	AENOR International S.A.U.	2 Years

	Verification (2nd Monitoring Period)	01-October-2015 -- 30-September-2021	Applus+ Certification	6 Years
	Verification (3rd Monitoring Period)	01-October-2021 -- 29-April-2023	Sustain CERT S.A	2 Years
	Validation (2nd Crediting Period)	30-April-2023 -- 29-April-2033	Sustain CERT S.A	10 Years
Sectoral scope	1 Energy (renewable/non-renewable) in line with the VCS Standard v 4.7			
AFOLU project category, if applicable	Not Applicable			
Project activity type	Non-Grouped Project, Hydroelectric. Assessment team confirms the project activity type based on review of validation report for first crediting period, previous verification reports and plant tour during onsite visit			
General eligibility of the project to participate in the VCS Program	. Peru was enlisted under least developed countries as per CDM Validation Report & Protocol Las Pizarras v10_clean^{/6/}. At the time of validation of second crediting period Peru is no more under LDC^{/32/}. In line with appendix 3 of VCS Standard v4.7^{/1/} "Registered VCS projects and projects that request registration with the VCS Program on or before 31 December 2019 remain eligible under the VCS Program for the entirety of their crediting periods." This project was registered^{/4/} before the above stated timeline hence project is still eligible for further issuances. The project was transitioned to verra in accordance with VCS standard v 3.4 This is renewal of the crediting period. Validation report is submitted at end of (previous) project crediting period and within two years after the end of the (previous) project crediting period. In addition to this, the VCS project activity is already registered and issued under the VCS Program as seen at:			

	https://registry.verra.org/app/projectDetail/VCS/1348
AFOLU project eligibility, if applicable	Not Applicable as this is hydroelectric project
Transfer project eligibility, if applicable	This is renewal of the crediting period. Hence not applicable
Project design	There are no new instances as this is renewal of the crediting period for a stand alone hydroelectric project. Hence not applicable.
Project ownership	Empresa Eléctrica Río Doble, S.A (ERD). This is validated during onsite visit interviews and signed document "Contrato de concesión para el suministro de energía removable al sistema Eléctrico Interconectado Nacional" issued by the Ministry of Energy and Mines of Peru. Assessment team confirms that Project ownership status is same as first crediting period.
Project start date	30-April-2013. This is crosschecked with validation report of first crediting period, previous verification reports and onsite assessment.
Project crediting period	30-April-2023 -- 29-April-2033. This has been validated by crosschecking Validation report of First crediting period, previous monitoring reports and VCS Standard v4.7
Project scale	Project. This has been validated by crosschecking Validation report of First crediting period, previous monitoring reports and Emission reduction ^{9/} projection submitted for CP 2 by project proponent.
Likelihood of achieving estimated GHG emission reduction or removals	This is renewal of the crediting period. GHG emission reductions are estimated based on the potential electricity generation of the hydroelectric plant. Assessment team has crosschecked potential electricity generation in validation report of First crediting period, previous monitoring reports and Verra PRR ^{30/} (Comment 2) dated 16 May 2024. VVB confirms that there is no addition of capacity based on onsite visit ^{10/} .

Technologies and measures implemented by the project activity or activities	This is renewal of the crediting period. Technologies and measures implemented by the project activity is same as first crediting period. It has been validated by assessment team onsite and the end of the technical lifetime of the equipment(s) would not complete before the end of the crediting period because according to the manufacturer's reports, the turbines have a useful lifetime of 40 – 50 years. equipment lifespan ^{/18/} documents are submitted by PP.
Implementation schedule of the project activity or activities	It is renewal of crediting period. Validity of original baseline is assessed and confirmed during onsite visit. The first VCS crediting period is from April 30th, 2013, and according to the registered PD of the first crediting period, it can be renewable twice. Therefore, this second crediting period of the project will be 10 years, and it will be from April 30th, 2023, to April 29th, 2033. In accordance with the CDM requirements, the third crediting period can only be renewed for a period less than 1 year, from April 30th, 2033, to December 31st, 2033. The second crediting period from 30/04/2023-29/04/2023. Assessment team has assessed the validity of the original baseline ^{/26/} and technology involved in the project activity during onsite visit and as per documents submitted by PP. (Appendix 2).
Project location	The VCS project activity is located within the District of Santa Cruz and Sexi, Province of Santa Cruz, and Department of Cajamarca. Geographic coordinates: Geographical coordinates: Longitude: -78.99442485 Latitude: -6.620835649
Conditions prior to project initiation	This is renewal of the crediting period. Baseline remains the same as first crediting period. Electricity generated from fossil fuel dominating energy grid within the SEIN.
Project compliance with applicable laws, statutes and other regulatory frameworks	This is renewal of the crediting period. Project follows applicable laws (Law to Assure the Efficient Development of Electric Generation (Law No. 28832)) and statutes. This has been crosschecked with validation report of PD registered for first crediting period and previous verification reports.

Double counting and participation under other GHG programs	The project activity is not registered under any other GHG and non-GHG program or registry^{/24/}. This has been confirmed by means of research on relevant applicable registries and available information in public domain and also a self-declaration towards the same has been provided by the PP^{/24/}. The assessment team has searched for similar projects having same nature, capacity and project proponent. The name of the owners mentions in the regulatory licenses are also matched and checked. It was concluded that no such projects having same location and geo-coordinates, technology or project/legal owners are registered in any of the various carbon schemes like CDM, GCC, and Gold Standard.
No double claiming with emissions trading programs or binding emission limits	The project activity has been thoroughly searched on the various websites of various emission trading programs. It has been found that the project is not part of any emission trading scheme. Also, a declaration has been provided by PP mentioning that the project is not part of any other scheme or REC mechanism ^{/24/}.
No double claiming with other forms of environmental credit	As discussed above, the project has been thoroughly researched in all the currently active environment schemes and found that the project is not registered with any other environmental credits. PP has also submitted a self-declaration stating that the project is not registered with any other registry^{/24/}.
Supply chain (Scope 3) emissions double claiming	Not applicable as it a Hydropower Plant project.
Sustainable development contributions	The project activity targets 6 of SDG goals for renewal of the crediting period:

SDG 3 – Good Health and Well-Being: Project offer support for the accessibility of health personnel to remote places and the transfer of people who require specialized medical care, provides fuel for the transport units of the health centers in the towns of Santa Cruz and Catache for transport to remote places (hamlets and small communities)^{/27/}. This has been confirmed by interviewing the stakeholders during the onsite visit^{/10/}.

SDG 4 – Quality Education: The project has hosted visits from schools and academic centres to demonstrate how the hydroelectric plant operates and to highlight the benefits of renewable energy. as no educational institutions requested tours. Previous verification reports ^{/12//14/16/} were reviewed to confirm the project's impact during earlier monitoring periods.

SDG 5 – Gender Equality: The hydropower project created employment opportunities for residents. During the onsite audit and through employment records^{/20/}, it was verified that the project employed 14 personnel, including 3 women.

SDG 08 -- decent work and conditions for the development of worker's capabilities. Till date more than 60% of the staff is from the province of Santa Cruz, the rest are from nearby provinces and regions. It has been validated during site visit.

SDG 7 – Affordable and Clean Energy: As the project activity is a hydro power project, it generated clean energy. It has been validated by the means of verra PRR(comment 2) ^{/30/}, previous verification reports that the project has potential electricity generation of 106,598 MWh.

SDG 9 -- Significantly increase access to information and communications technology: Since September 2023, Río Doble has allocated annual budget for installation and implementation of the internet service in the district schools of Santa Cruz, and this would continue until the end of the project's lifetime. This has been validated during onsite Visit interviews^{/10/}.

	SDG 10 – Reduced Inequality: The hydropower plant project created employment opportunities for local residents. During the onsite audit^{/10/} and through employment records^{/20/}, it was verified that 61.54% of the permanent staff are natives and are coming from the district of Santa Cruz and 38.46% of the staff are technicians from various northern provinces of Peru, and ERD is their first job placement. All have maintained job continuity for around 8 years. SDG 13 – Climate Action: As the project activity is Hydro Power project, generating clean energy which is replacing equal amount of energy from fossil fuel dominated grid, thus contributing positively to climate change. For renewal of the crediting period the average projected emission reduction is 37,602 tCO₂e.
Additional information relevant to the project	No commercially sensitive information has been excluded by the PP.

3.2 Safeguards and Stakeholder Engagement

3.2.1 Stakeholder Engagement and Consultation

3.2.1.1 Stakeholder Identification

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Stakeholder identification	This is renewal of the crediting period. It has been observed and validated during the onsite audit that the project activity is in line with the monitoring plan for registered PD of first crediting period and VCS Standard v 4.7. No new stakeholders have been identified, and the stakeholder group remains the same as at the validation stage, consisting of the nearest towns to the project.
Legal or customary tenure/access rights	It has been observed and verified during onsite audit that the project activity is in line with the monitoring plan of the registered PD of first crediting period ^{/5/} and there are no new legal or customary access right.

Stakeholder diversity and changes over time	It has been observed and validated during onsite audit that the project activity is in line with the monitoring plan ^{/5/} and also stakeholders were interviewed during onsite audit (details of which are mentioned in section 2.3 of report) and it can be concluded that there is no change in stakeholder diversity over project lifetime till now. The stakeholders include citizens of the nearest towns to the project, along with the Governor, the Provincial Municipality of Santa Cruz, the Catache District Municipality, the Santa Cruz Health Center, the Indoamericano Educational Institute, and the Juan Ugaz Educational Center.
Expected changes in well-being	This is renewal of the crediting period. It has been observed and validated during onsite audit that the project activity is in line with the monitoring plan ^{/5/} and also stakeholders were interviewed during onsite audit (details of which are mentioned in section 2.3 of report) and it can be concluded that establishment of hydroelectric power plant has brought up positive changes in the surrounding, by providing clean energy, job creations, and improved good health and well-being.
Location of stakeholders	It has been observed and validated during the onsite audit that the project activity is in line with the monitoring plan of the registered PD for first crediting period ^{/5/} and there is no change in the location of stakeholders. It remains same as the province of Santa Cruz, Peru and remains unchanged of renewal of the crediting period.
Location of resources	It has been observed and validated during the onsite audit that the project activity is in line with the monitoring plan of the registered PD for first crediting period ^{/5/} and no new stakeholder has been identified for renewal of the crediting period.

3.2.1.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
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Stakeholder engagement process	It has been observed and validated during the onsite audit interviews that the project activity is in line with the monitoring plan of the registered PD for first crediting period ^{/5/} . PP has organized 2 informative workshops. Authorities and representatives of the communities were then sent written invitations where flyers were distributed to the stakeholders, radio announcement were made, posters were published ^{/10/} .
Consultation outcome	It has been validated during the onsite audit interviews that the project activity that stakeholders have positive opinion about the project activity.
Ongoing communication	During the onsite audit it was observed that mailbox ^{/21/} is available to public at project location where public can submit the complains/grievance, comments/suggestion for the project.
Stakeholder input	No inputs were received for renewal of the crediting period.

3.2.1.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Obtaining consent	During the renewal of the crediting period, an onsite audit ^{/10/} was conducted and it has been validated that there was no conflict over the project resources. The same details were also verified from the previous verifications ^{/12//14/16/}
Outcome of FPIC discussion	There is no concern. Therefore, no FPIC required.

3.2.1.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Development process	During the renewal validation, an onsite audit ^{/10/} was conducted. It was observed that people can reach out to the plant manager with any complaints, suggestions. PP has also had a complaint and feedback mailbox, copy of the complaint forms has also been provided to the assessment team The details of which were also validated during onsite audit.

Grievance redress procedure

Grievance mechanism is well in place for the project activity and stakeholders are aware about the process.

3.2.1.5 Public Comments

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
No comments received	Not applicable	

3.2.2 Risks to Local Stakeholders and the Environment

3.2.2.1 Management Experience

The team managing Empresa Eléctrica Rio Doble S.A. (ERD) includes professionals from various specialties with over 15 years of experience. The management team has been with ERD since its construction phase (2011–2012) and commercial operation stage (2013), gaining expertise in operations, programs, and community relations. They have also contributed to planning and developing energy projects in Peru. The assessment team validated their competency during the onsite visit^{/10/}.

3.2.2.2 Risk Assessment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Natural and human-induced risks to stakeholders' wellbeing	Floods: During the renewal of the crediting period, onsite audit ^{/10/} was conducted, it was validated that proper environmental planning and monitoring is in place. The PP developed a Detailed Environmental Plan (PAD) ^{/28/} to ensure that any risk to stakeholders and the facility is minimized.
Risks to stakeholder participation	During the renewal of the crediting period, onsite audit ^{/10/} was conducted, interview with the stakeholders was conducted (details can be found in section 2.3 and 2.4 of the report), it has been observed that grievance redressal procedure is in place, and there are no new negative comments received, it has been validated during on-site audit ^{/10/} . Therefore, it has been concluded that there has been no risk to participation.

Working conditions	During renewal of the crediting period, an onsite audit ^{/10/} was conducted, interview with of the stakeholders and plant employee was conducted (details can be found in section 2.3 and 2.4 of the report), it has been observed from the interview that working conditions are well balanced for people. Therefore, it can be concluded that working conditions are appropriate for the employees.
Safety of women and girls	During the renewal of the crediting period, an onsite audit ^{/10/} was conducted, interview with of the stakeholders was conducted (details can be found in section 2.3 and 2.4 of the report), and it was observed that project does not cause any harm to the society.
Safety of minority and marginalized groups, including children	During the renewal of the crediting period, onsite audit ^{/10/} was conducted, interview with stakeholders was conducted (details can be found in section 2.3 and 2.4 of the report), and it was observed that project does not cause any harm to society, as stakeholder interviewed included both females and male for local community, there information was properly cross checked.
Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials, and chemical pesticides and fertilizers)	The project activity is Hydro power project, hence a renewable project and does not cause any harm to the environment. PP has provided quarterly monitoring of noise, electromagnetic radiation, air quality reports and biannual water quality monitoring reports ^{/25/} . All the details related to the environmental factors have been validated During onsite audit ^{/10/} . Details of these have also been verified in the previous verifications ^{/12//14/16/} .

3.2.3 Respect for Human Rights and Equity

3.2.3.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination	During the renewal of the crediting period, onsite audit ^{/10/} was conducted, interview with the stakeholders and plant employee was conducted (details can be found in section 2.3 and 2.4 of the report), it was confirmed that there is no discrimination with any employee on site.

Sexual harassment	During the renewal of the crediting period, onsite audit ^{/10/} was conducted, interview with the stakeholders and plant employee was conducted (details can be found in section 2.3 and 2.4 of the report), it was confirmed that there is no sexual harassment with any employee on site.
Equal pay for equal work	During the renewal of the crediting period, onsite audit ^{/10/} was conducted, interview with of the stakeholders and plant employee was conducted (details can be found in section 2.3 and 2.4 of the report), it was confirmed that there was no pay discrimination on project site.
Gender equity in labor and work	During the renewal of the crediting period, onsite audit ^{/10/} was conducted, interview with of the stakeholders and plant employee was conducted (details can be found in section 2.3 and 2.4 of the report), it was confirmed that there was no gender discrimination on project site.
Forced labor	During the renewal of the crediting period employment records were checked ^{/20/} , onsite audit ^{/10/} was conducted, interview with the stakeholders and plant employees was conducted (details can be found in section 2.3 and 2.4 of the report), it has been confirmed that there have been no cases of forced labor.
Child labor	During the renewal of the crediting period, onsite audit ^{/10/} was conducted, interview with the stakeholders and plant employees was conducted (details can be found in section 2.3 and 2.4 of the report), it has been confirmed that there have been no cases of and child labor.
Human trafficking	During the renewal of the crediting period, onsite audit ^{/10/} was conducted, interview with the stakeholders and plant employees was conducted (details can be found in section 2.3 and 2.4 of the report), it has been confirmed that there have been no cases of human trafficking.

3.2.3.2 Human Rights

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
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Human rights	During the renewal of the crediting period, onsite audit ^{10/} was conducted, interview with the stakeholders was conducted (details can be found in section 2.3 and 2.4 of the report), it was confirmed that there is no situation for violation towards human rights at the project site.
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3.2.3.3 Indigenous Peoples and Cultural Heritage

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
Preservation and protection of cultural heritage	During the renewal of the crediting period, onsite audit ^{10/} was conducted, interview with the stakeholders was conducted (details can be found in section 2.3 and 2.4 of the report), it was confirmed that there was no harm to the cultural heritage at the project site.

3.2.3.4 Property Rights

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
Disputes over rights to territories and resources	During the renewal of the crediting period, onsite audit ^{10/} was conducted, it has been observed and confirmed that there has been no dispute over territories and resources project. Also, the complaint forms submitted were checked.
Respect for property rights	During the renewal of the crediting period, onsite audit ^{10/} was conducted, and it was observed and confirmed that no disputes or issues related to property rights were raised.

3.2.3.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Process used to design the benefit sharing plan	Not applicable for the project activity as this is hydropower project.
Summary of the benefit sharing plan	Not applicable for the project activity as this is hydropower project.
Approval and dissemination of benefit sharing plan	Not applicable for the project activity as this is hydropower project.

3.2.4 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	During the renewal of the crediting period, PP has submitted the EIA ^{/29/} performed for the project activity to identify threatened flora and fauna and this has been verified during the onsite audit ^{/10/} . Additionally, PP submitted a Detailed Environmental Plan (PAD) ^{/28/} , which outlines the environmental measures to ensure the project activity does not negatively impact fish or other aquatic biodiversity within the project boundary. Hence, no risk is identified.
Soil degradation and soil erosion	Not applicable as it is a Hydro power project. Hence, no risk identified
Water consumption and stress	As it is a run-of-river hydroelectric power plant, the project does not produce water stress nor water consumption. This the information has also been validated onsite ^{/10/} .

3.2.4.1 Rare, Threatened, and Endangered species

Risk identified	Evidence gathering activities, evidence checked, and assessment conclusion
Species and habitat	The PP provided the Environmental Impact Assessment (EIA), detailing the vulnerable flora and fauna species within the project boundary. It was validated during the onsite audit ^{/10/} and through previous verification reports ^{/12//14/16/} , confirming that no threatened species or habitats are affected by the project activity. Therefore, it can be concluded that there is no threat to rare, threatened, or endangered species.
Areas needed for habitat connectivity	The PP provided the Environmental Impact Assessment (EIA), detailing the vulnerable flora and fauna species within the project boundary. It was validated during the onsite audit ^{/10/} and through previous verification reports ^{/12//14/16/} , confirming that no threatened species or habitats are affected by the project activity. Therefore, it can be concluded that there is no threat to areas needed for habitat connectivity.

3.2.4.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
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Not Applicable	

Existing invasive species	ence gathering activities, evidence checked, and assessment conclusion
Not Applicable	

	Evidence gathering activities, evidence checked, and assessment conclusion
Invasive species	Not Applicable

3.2.4.3 Ecosystem conversion

Risks Identified	Evidence gathering activities and evidence checked
Ecosystem conversion	Not Applicable as this is hydroelectric power plant

3.3 Application of Methodology

3.3.1 Title and Reference

This is validation for renewal of the crediting period hence version of the applied methodology has been updated.

Type (methodology, tool or module).	Reference ID, if applicable	Title	Version
Methodology	ACM0002	Grid-connected electricity generation from renewable sources.	22.0
Tool	07	Tool to calculate the emission factor for an electricity system.	7.0

Tool	01	Tool for the demonstration and assessment of additionality.	7.0.0
Tool	11	Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period.	3.0.1

3.3.2 Applicability

Methodology ID	Applicability condition	Assessment and conclusion
ACM0002	1. This methodology is applicable to grid-connected renewable energy power generation project activities that: (a) Install a Greenfield power plant; (b) Involve a capacity addition to (an) existing plant(s); (c) Involve a retrofit of (an) existing operating plant(s)/unit(s); (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) Involve a replacement of (an) existing plant(s)/unit(s).	This is renewal of the crediting period. Onsite was conducted and also confirmed by previous validation report and verification reports that this is grid-connected renewable power generation project
ACM0002	2. In case the project activity involves the integration of a BESS, the methodology is applicable to grid-connected renewable energy power generation project activities that:	Not applicable

	(a) Integrate BESS with a Greenfield power plant; (b) Integrate a BESS together with implementing a capacity addition to (an) existing solar photovoltaic or wind power plant(s)/unit(s); (c) Integrate a BESS to (an) existing solar photovoltaic or wind power plant(s)/unit(s) without implementing any other changes to the existing plant(s); (d) Integrate a BESS together with implementing a retrofit of (an) existing solar photovoltaic or wind power plant(s)/unit(s).	
ACM0002	3. The methodology is applicable under the following conditions: (a) Hydro power plant/unit with or without reservoir, wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit.	This is renewal of the crediting period for run of river hydroelectricity project without reservoir^{6/}. An onsite visit has been conducted. It is not a capacity addition, retrofit or replacement of an existing power plant project. Moreover, this is not the greenfield project or involves integration of a BESS. The same has been crosschecked registered PD for first crediting period.

(b) In the case of capacity additions, retrofits, rehabilitations or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant/unit started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity;

(c) In case of Greenfield project activities applicable under paragraph 5 (a) above, the project participants shall demonstrate that the BESS was an integral part of the design of the renewable energy project activity (e.g. by referring to feasibility studies or investment decision documents);

	(d) The BESS should be charged with electricity generated from the associated renewable energy power plant(s).	
ACM0002	4. In case of hydro power plants, one of the following conditions shall apply: (a) The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or (b) The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density, calculated using equation (7), is greater than 4 W/m²; or (c) The project activity results in new single or multiple reservoirs and the power density, calculated using equation (7), is greater than 4 W/m²; or	This is renewal of the crediting period. Project site tour was conducted during the onsite visit. Assessment team reports no reservoir or regulating tank in the Project, as it involves only the construction of an intake, tunnel, low-pressure tunnel, forebay, and powerhouse. This has been crosschecked with registered PD of first crediting period. The applicability status remain unchanged.

(d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (7), is lower than or equal to 4 W/m², all of the following conditions shall apply:

(i) The power density calculated using the total installed capacity of the integrated project, as per equation (8), is greater than 4 W/m²;

(ii) Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity;

(iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m² shall be:

a. Lower than or equal to 15 MW; and

b. Less than 10 per cent of the total installed capacity of integrated hydro power project.

ACM0002	5. In the case of integrated hydro power projects, project participants shall: (a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or (b) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore, this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum of five years prior to the implementation of the CDM project activity.	This is renewal of the crediting period. The assessment team has conducted the onsite visit and confirms that the project doesn't integrate hydro power projects. This has been crosschecked with registered PD of first crediting period.
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ACM0002	6. The methodology is not applicable to: (a) Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site; (b) Biomass fired power plants/units.	This is renewal of the crediting period. This is a renewable energy project electricity generation project and doesn't involve use of fossil fuel and biomass fired plants for electricity generation.
ACM0002	7. In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".	Not applicable

3.3.3 Project Boundary

This is renewal of the crediting period. The site visit is conducted, and it is validated that the project boundary is unchanged with respect to the registered PD of the first crediting period. It is validated that the boundary of the project is the area of the concession of the Las Pizarras hydroelectric plant and SEIN transmission line.

Source		Gas	Included?	Assessment and conclusion
Baseline	CO ₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity.	CO ₂	Yes	This is renewal of the crediting period and validity of original baseline is assessed and confirmed. CO ₂ is emitted from fossil fuel non-renewable power plants including SEIN.
		CH ₄	No	
		N ₂ O	No	
Project	For hydro power plants, emissions of CH ₄ from the reservoir.	CO ₂	No	This is renewal of the crediting period. Not Identified during onsite visit as project activity is hydroelectric plant-based electricity generation
		CH ₄	No	This is renewal of the crediting period. Not Identified during onsite visit as project activity is hydroelectric plant-based electricity generation
		N ₂ O	No	This is renewal of the crediting period. Not Identified during onsite visit as project activity is hydroelectric plant-based electricity generation

3.3.4 Baseline Scenario

This is renewal of the crediting period. Its is validated by assessment team original baseline is unchanged.

Assessment team has crosschecked that there are no recent national and/or sectoral policies that have come into effect after the submission of the project for the first validation and are applicable to the project activity.

Assessment team has validated that COES^{/26/} is responsible for electricity generation and distribution in Peru. Same has been crosschecked with validation report of registered PD for first crediting period.

Assessment team has validated that technical lifetime of the equipment(s) is not expected to end before the end of the crediting period because as per manufacturer's reports, the turbines have a useful lifetime of 40 – 50 years^{/18/}.

Electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected fossil fuel powered plants and by the addition of new generation sources.

Therefore, it has been concluded that original baseline remain valid.

3.3.5 Additionality

This is renewal of the crediting period. Additionality remains fixed as recorded in the registered PD for first crediting period.

Assessment team has crosschecked additionality criteria with the validation report of the registered PD for the first crediting period.

Peru is non annex 1 country in Kyoto protocol. Hence the project activity is not mandated by law in the host country. Peru's NDCs to increase the share of renewable electricity generation excluding hydropower^{/31/} which is in line with regulatory surplus requirements of VCS standard v 4.7.

3.3.6 Quantification of GHG Emission Reductions and Carbon Dioxide Removals

The baseline, project and leakage calculation are checked by the assessment team and confirms that the evaluation of baseline, project and leakage is as per the approved methodology and formula used to calculate the same is correct. The detailed analysis is as below:

. This is renewal of second crediting period. In accordance with section 3.9.8 of the VCS standard v 4.7 Assessment team has checked that the original baseline still remains valid as the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of fossil fuel fired grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in "TOOL07: Tool to calculate the emission factor for an electricity system" version 07.0.

According to the ACM0002, Baseline emissions include only CO₂ emissions from electricity generation in fossil fuel-fired power plants that are displaced due to the project activity.

The baseline emissions are to be calculated as follows:

$$BE_y = EGP_{J,y} \times EF_{grid,CM,y}$$

Where:

BE_y = Baseline emissions in year y (tCO₂/yr)

$EGP_{J,y}$ = 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/yr)

EF_{grid,CM,y} = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of “TOOL07: Tool to calculate the emission factor for an electricity system” version 07.0 (tCO₂/MWh)

Calculation of EGPJ,y

In case of Greenfield power plant development, the calculation of the electricity system’s combined margin (CM) shall be based on the following equation, according to the methodology:

EG PJ,y = EG facility,y

Where:

EG PJ,y = 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/yr)

EG facility,y = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/yr)

Calculation of EF_{grid,CM,y} is carried out in line with Tool 7 following 6 step detailed out in the document achieving the value 0.353 tCO₂/MWh.

Step 1: Identify the relevant electric power system.

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

Step 3: Select a method to determine the operating margin (OM).

Step 4: Calculate the operating margin emission factor according to the selected method.

Step 5: Calculate the build margin (BM) emission factor.

Step 6: Calculate the combined margin (CM) emission factor.

Step 1: Identify the relevant electric power system

The project generated electricity is being supplied to the SEIN^{6/}, hence the project displaces energy consumption from Peru’s SEIN.

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

PP has chosen Option I for the calculation of the grid emission factor. SusutainCERT SA crosschecked the calculations from the available power sector data publicly available from the National Interconnected Electric Grid (COES)¹

Step 3: Select a method to determine the operating margin (OM)

¹ <https://www.coes.org.pe/Portal/publicaciones/estadisticas/estadistica?anio=2023>

PP has selected the Dispatch Data Analysis OM (OM-DD) out of four procedures mentioned under CDM tool 7. It is observed and documented^{/26/} that low cost, must-run resources constitute more than 50% of total grid generation in Perú.

Step 4: Calculate the operating margin emission factor according to the selected method

PP has utilized the hourly generation in 2022 for calculation as it was the most recent data available at the time that the Project's baseline study was completed and the hourly generation data for the year 2023 was not published on the Official COES website.

The information on the hourly generation of all plants in the SEIN and their associated emission factors was checked in OM 2022_PD_v1 submitted by PP and was found appropriate.

$$EF_{grid, OM-DD, y} = \frac{(\sum_h EG_{PJ, h} \times EF_{EL, DD, h})}{EG_{PJ, y}}$$

$$EF_{grid, OM-DD, 2022} = \frac{60,334.11}{106,598.00}$$

$$EF_{grid, OM-DD, 2022} = 0.565 \text{ tCO}_2/\text{MWh}$$

Step 5: Calculate the build margin (BM) emission factor

VVB has crosschecked Peru Electricity System EFBM 2023 calculation_v1 to be in line with CDM tool 7 that PP has determined 5 latest power plants units net electricity generation of 3,123,211.25 MWh. not accounting for CDM projects. Power plant supplying electricity to grid with less than 10 years were identified by PP was crosschecked and it is confirmed that earliest power unit was built in 2016.

The CO2 emission factor of each power unit m (EFEL,m,y) was checked and found in accordance with CDM tool 7.

Based on the above calculations and data from 2023 (the latest year available), the result of the build margin emissions factor, calculation of build margin was checked and demonstrated as below:

$$EF_{grid, BM, 2023} = \frac{\sum^m EG_{m, 2023} \times EF_{EL, m, y}}{SET \text{ sample } \sum^m EG_{m, 2023}}$$

$$EF_{grid, BM, 2023} = \frac{2,106,171 \text{ (tCO}_2/\text{year)}}{7,462,238 \text{ (MWh/year)}}$$

$$EF_{grid, BM, 2023} = 0.282 \text{ tCO}_2/\text{MWh}$$

Step 6. Calculate the combined margin emission factor

The Combined Margin (CM) for the year 2022 is checked and demonstrated as below:

$$EF_{grid,CM,y} = 0.565 \times 0.25 + 0.282 \times 0.75$$

$$EF_{grid,CM,2022} = 0.353 \text{ tCO}_2/\text{MWh}$$

The calculations are assessed and validated in document CP2 Emission reduction estimation_Las Pizarras_v2. The source of the values used to calculate EF_grid CM,y calculation is checked and validated and every step mentioned above and relevant source of data is found to be correct ^{/26/}.

Project Emission

The project activity involves renewable power generation. Therefore, PEy = 0. The same has been crosschecked from validation report of first crediting period and the applied methodology and is found acceptable.

Leakage Emission

Leakage emissions are not considered, as leakage may arise due to power plant construction and upstream emissions from fossil fuel use (e.g. extraction, processing, and transportation). In this case hydroelectric plant is already established and running hence this is found acceptable by the VVB.

Assessment team confirms that ACM002 is applied correctly to project emission reduction for the second crediting period and grid emission factor is calculated appropriately in line with CDM Tool 7 utilizing the latest data from SEIN^{/26/}.

3.3.7 Methodology Deviations

There is no methodology deviation identified during the renewal of crediting period.

3.3.8 Monitoring Plan

The proposed Monitoring Plan describes the Management System and Procedures to be developed and implemented by the project owner for this project to ensure consistency with the methodology ACM0002: Grid-connected electricity generation from renewable sources Version 22.0 with respect to the context of the project activity.

The meters comply with appropriate quality standards applicable to the used technology. The accuracy class of the meters installed for the project activity was verified through photographs taken onsite/10/ and previous verifications/12//14/.

Current meter installed:

Meter Model	Serial Number	Accuracy class
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ION8650 Schneider Electric	MW- 1211A328-01 (Main Meter)	0.2S
ION8650 Schneider Electric	MW- 1211A330-01 (Back-up Meter)	0.2S
ION8650 Schneider Electric	MW- 1205A219-01 (Back-up Meter)	0.2S

In accordance with the registered PD^{/5/}, meter calibration is required every three years. It was observed that the last calibration of the meters for monitoring period was performed on 14/01/2021. The meters were subsequently calibrated on 29/01/2022, 30/11/2022, and 03/12/2023. The calibration certificates^{/20/} were submitted by the PP and validated during the onsite audit^{/10/}. Since the calibrations were conducted at intervals of less than three years, it is concluded that the meters remained calibrated at the time of renewal validation.

In accordance with the above details the validation team confirms that:

The calculations of baseline emissions as presented in the corresponding ER sheet of final RCP PD were checked and found to be consistent with the formulae and methods described in the registered monitoring plan^{/5/} and the applied methodology^{/7/}.

All assumptions used in the emission calculations were found appropriate and therefore accepted. Appropriate emission factors and other reference values have been correctly calculated and applied.

3.4 Non-Permanence Risk Analysis

This is Hydro power project. Therefore, this is not applicable.

4 VALIDATION OPINION

4.1 Validation Summary

The project activity VCS – 1348, “Las Pizarras Project” has undergone Renewal of the crediting period. Empresa Eléctrica Río Doble S.A is responsible for the overall site management and NTT Data is responsible for analysis, aggregation, preparation (conversion factors, assumptions, methodology, calculations) and presentation of activities and related GHG data in its public disclosures (including but not limited to monitoring report, emission reduction calculation sheet, submitted documents/ emails/ communications). The validation engagement is based on the assumption that the baseline, GHG data provided to us is complete, sufficient, true and free from material misstatements.

SustainCERT applies its own quality management system and compliance policies for quality control, in accordance with ISO/IEC 17029:2019 – Conformity Assessment Requirements for Validation and Verification bodies providing environmental information (ISO 14065:2020) and greenhouse gas audit (ISO 14064-3:2019) and certifications, and accordingly maintains a comprehensive system of quality control including documented policies and procedures regarding compliance with ethical requirements, professional standards and applicable legal & regulatory requirements.

We have complied with the VCS standard^{/1/} and other requirements mentioned, during the verification engagement and maintained independence. SustainCERT was not involved in the preparation of any statements or reports or data except for this Verification Statement and Report. SustainCERT maintains complete impartiality toward stakeholders interviewed during the verification process. SustainCERT did not provide any services PP’s company and its subsidiaries in the scope of verification that could compromise the independence or impartiality of our work. SustainCERT disclaims any liability or co-responsibility for any decision a person or an entity would make based on this verification statement towards the issuance and utilization of VCUs hereby verified and certified. The verification was carried out during October 2024 – January 2025 by a team of qualified GHG auditors.

4.2 Validation Conclusion

The Validation of renewal of crediting period of the project titled “Las Pizarras Project” VCS ID – 1348, have been undertaken by SustainCERT, as requested by Empresa Eléctrica Río Doble S.A., project proponent for the project, crediting period 30/04/2023 to 29/04/2033 (including both days) as reported in latest submitted version of project description for second crediting period. The project activity is validated for the original baseline and implementation inline with applied methodology and VCS Standard. It is our responsibility to express an independent validation statement on the reported GHG emission reductions from the project activity.

SustainCERT Validation approach was based on understanding the risk associated with reporting of GHG emission data and the controls in place to mitigate these. SustainCERT planned and performed the verification by obtaining evidence and other information and explanations that SustainCERT considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

In our opinion, the projected GHG emissions reductions reported for the project activity for the period 30/04/2023 to 29/04/2033 (including both days) are fairly stated in the latest submitted version of project description document. The GHG emission reductions were calculated correctly based on the validated baseline and monitoring methodology ACM0002. Version 22.0.

Crediting period: From 30 April 2023 to 29 April 2033

Vintage period	Estimated baseline emissions (tCO ₂ e)	Estimated project emissions (tCO ₂ e)	Estimated leakage emissions (tCO ₂ e)	Estimated buffer pool allocation (tCO ₂ e)	Estimated reductions VCU's (tCO ₂ e)	Estimated removals VCU's (tCO ₂ e)	Estimated total VCU issuance (tCO ₂ e)
30-April-2023 to 29-April-2024	37,602	0	0	-	37,602	-	37,602
30-April-2024 to 29-April-2025	37,602	0	0	-	37,602	-	37,602
30-April-2025 to 29-April-2026	37,602	0	0	-	37,602	-	37,602
30-April-2026 to 29-April-2027	37,602	0	0	-	37,602	-	37,602

30-April-2027 to 29-April-2028	37,602	0	0	-	37,602	-	37,602
30-April-2028 to 29-April-2029	37,602	0	0	-	37,602	-	37,602
30-April-2029 to 29-April-2030	37,602	0	0	-	37,602	-	37,602
30-April-2030 to 29-April-2031	37,602	0	0	-	37,602	-	37,602
30-April-2031 to 29-April-2032	37,602	0	0	-	37,602	-	37,602
30-April-2032 to 29-April-2033	37,602	0	0	-	37,602	-	37,602
Total	376,020	0	0	0	376,020	0	376,020

APPENDIX 1: COMMERCIALLY SENSITIVE INFORMATION.

Section	Information	Justification	Assessment conclusion	method	and
		Not Applicable			

APPENDIX 2: TABLE OF REFERENCE

S. No	Document Title	Version	Date
1	VCS standard <u>VCS Program Details - Verra</u>	4.7	21/03/2024
2	VCS guidelines https://verra.org/wp-content/uploads/2023/08/VCS-Program-Guide-v4.4.pdf	4.4	29/08/2023
3	Validation and Verification Manual https://verra.org/wp-content/uploads/2018/03/VCS_Validation_Verification_Manual_v3.2.pdf	3.2	19/10/2016
4	VCS Project Webpage, VCS ID - 1348 - https://registry.verra.org/app/projectDetail/VCS/1348	-	-
5	Project Description CP https://registry.verra.org/app/projectDetail/VCS/1348	102	08/08/2014
6	Validation report CP https://registry.verra.org/app/projectDetail/VCS/1348	101	04/09/2014
7	Applied Methodology “ACM0002: Grid-connected electricity generation from renewable sources”	22.0	-
8	CP 2 PDD	3.0	19/12/2024
9	Emission reduction calculation sheet CP 2	-	Corresponding to PD CP 2
10	Onsite audit Photos from onsite visit	-	09/10/2024
11	Emission Factor Calculation	-	Corresponding to MR
12	1 st Verification Report	2.0	04/03/2016

13	1 st Monitoring Report	2.0	20/10/2015
14	2 nd Verification Report	3.0	16/02/2024
15	2 nd Monitoring Report	7.0	16/02/2024
16	3 rd Verification Report		
17	3 rd Monitoring Report		
18	Technical specification documents	-	05/10/2011
19	Maintenance record	-	2013 to 2023
20	Employment records	-	-
21	Local stakeholders - Complaint and Feedback record (for the entire crediting period) Photo of mailbox as grievance mechanism		05/11/2012 to 23/06/2024
22	Meter Calibration certificate and Test Report	-	29/01/2022 30/11/2022 03/12/2023
23	Contract agreement of PP with SMARTENER and NTT Data	-	08/12/2023 and 21 June 2023 respectively
24	No Double counting declaration REC declaration evidence	-	25/09/2024
25	Environmental monitoring reports	-	2021 to 2023

26	Electrical Concessions Law (D. L. N° 25844, 19.11.1992) and Promotion of investment for electricity generation with renewable energy (D. L. N° 1002, 02.05.2008); Portal Web del COES	-	
27	SDG 3: Solicitation letters for Oxygen Medical Tank SDG 3: Proof of transfer for the purchase SDG 3: fuel support charges	-	22/04/2021 18/08/2021 20/08/2021
28	Detailed Environmental Plan	-	18/01/2023
29	Environmental Impact Assessment	-	02/2012
30	PRR (PRR_1348_16 May 24_Final)	-	16/05/2024
31	Implementation of Nationally Determined Contributions: Peru		2018
32	UN LDC List (https://unctad.org/topic/least-developed-countries/list)		Accessed on 25/01/2025

APPENDIX 3: PROJECT FINDINGS

Assessment Question		Findings/ Comments (CL 01)	Developer Response
VCS Standard, v4.7	Entities Involved in the Project	Section 1.7 of PD: The PP shall clarify the roles of Smartener and NTT Data in the project. Additionally, the PP must clarify the ownership of the carbon credits generated by the project. The PP is requested to include this information in the Project Description.	A full clarification has been added in Section 1.6 about the ownership of the carbon credits, and in Section 1.7 about the different roles and responsibilities of the entities involved in the project: - SMARTENER as responsible of operation management, and NTT DATA as verification process advisor. - Río Doble, as Project Participant, is the owner of the carbon credits generated by the project.

Assessment Question		Findings/ Comments (CL 01)	Developer Response
	Rd 2	PP has updated section 1.6 to clarify on ownership of carbon credits. Moreover, PP has updated section 1.7 to clarify the roles of Smartener and NTT Data as other entities involved in the project. PP has submitted the service agreement with SMARTENER and NTT DATA and evidence for ownership of carbon credits by Río Doble in line with section 3.7 of VCS Standard 4.7 #CLOSED	

Assessment Question		Findings/Comments (CL 02)	Developer Response
VCS Standard, v4.7	VCS Standard, v4.7	Section 1.16 of PD:	The provided evidence “1. <i>Declaration</i> ” confirms that the project is not active in any other environment schemes or claiming credits according to VCS Standard v4.7 paragraph 3.23.2.

Assessment Question	Findings/Comments (CL 02)	Developer Response
3.23.1 Project proponents shall not seek credit for the same GHG emission reduction and carbon dioxide removal under the VCS Program and another GHG program. Projects issuing GHG credits from different time periods under the VCS Program and another GHG program shall also conform with the rules and requirements in the Registration and Issuance Process.	PP is requested to provide confirmation whether project is currently active in any other environment schemes and claiming credits. PP is requested to provide signed declaration stating that the project is not registered with any other registry. In case PP have received or are seeking credit for reductions and removals from a project activity under the VCS Program and another GHG program, PP is requested to provide the required information as per VCS Standard v4.7 para 3.23.2 (1)-(4).	
Round-2	PP has updated section 1.16 to clarify status of project participation under other GHG programs. PP has provided signed declaration stating that the project is not registered with any other registry, as per VCS Standard v4.7 para 3.23.2 (1)-(4). #CLOSED	

Assessment Question		Findings/Comments (CL 03)	Developer Response
VCS Standard, v4.7 Monitoring report template	Grievance Redress Procedure	Section 2.1.5 of PD: The PP is requested to submit evidence demonstrating the existence of a mailbox designated for the grievance procedure. This mailbox should be accessible to the general public for submitting complaints, comments, and/or suggestions.	Picture from the existence of the mailbox for the grievance procedure has been provided as evidence in “ <i>Foto buzón de sugerencias.jpg</i> ” image.
	Rd 2	PP has submitted <i>Foto buzón de sugerencias.jpg</i> image. The image is found to be appropriate. #CLOSED	

Assessment Question		Findings/Comments (CL 04)	Developer Response
VCS Standard, v4.7 Monitoring report template	Risk Assessment	Section 2.2.1 of PD: The PP shall clarify its plans to mitigate and control the effects of flooding, ensuring minimal impact on stakeholders and the Rio Doble Facilities.	A clarification about flooding mitigation ensuring minimal impact on stakeholders has been added in Section 2.2.1 of the PD:

Assessment Question	Findings/Comments (CL 04)	Developer Response
	The PP is requested to submit the HR Manual or Code of Conduct, addressing issues such as child labor, exploitation of women and girls, discrimination, or sexual harassment, ensuring safe working conditions for employees involved in the project activity.	“Río Doble has a Contingency Plan focused on ensuring the safety of personnel and operations. However, this plan does not include flood risks for other stakeholders, as the risk of flooding and its impact on the environment and populations is minimal. Due to the location of the hydropower plant (within a closed ravine), there are no populations or cultivable lands downstream for up to 6.7 km. The river flows through the ravine, which acts as a physical barrier to prevent flooding or overflow during periods of high-water levels. Additionally, the area is located in a highly naturalized environment with significant soil and vegetation absorption capacity, which serves as another natural barrier to mitigate environmental and social risks.”. Document “<i>CÓDIGO DE CONDUCTA Río Doble</i>” has been provided as evidence.
Rd 2	PP has updated section 2.2.2 of the PD to include appropriate contingency plan by PP to mitigate and control the effects of flooding, ensuring minimal impact on stakeholders and the Río Doble Facilities. The mitigation plan is in line with section 3.19.4 of VCS Standard v 4.7 #CLOSED	

Assessment Question		Findings/Comments (CL 04)	Developer Response
		The PP has submitted the HR Manual or Code of Conduct, addressing issues such as child labor, exploitation of women and girls, discrimination, or sexual harassment, ensuring safe working conditions for employees involved in the project activity. The document is found to be in line with section 3.19.11 - 3.19.18 of VCS Standard v 4.7 #CLOSED	

Assessment Question		Findings/Comments (CL 05)	Developer Response
VCS Standard, v4.7 Monitoring report template	Applicability of Methodology	Section 3.1 of PD: The PP is requested to clarify the use of ACM0002 version 21.0 for the renewal of the crediting period, given that the latest version of ACM0002 is version 22.0.	Mistake corrected. The correct Methodology version applicable to the project activity is currently ACM0002 v22.0.
	Rd 2	PP has updated section 3.1 of the PD with latest version of applied methodology, and same is maintained throughout the PD. #CLOSED	

Assessment Question		Findings/Comments (CL 06)	Developer Response
VCS Standard, v4.7 Monitoring report template	Baseline Scenario	Section 3.4 of PD: The PP is requested to provide the technical specifications of the turbines from the manufacturer, confirming that the useful lifetime of the turbines is 40-50 years.	Technical specifications of the turbines provided as evidence in “20111010 Comunicación Andritz vida útil sin chimenea.pdf” document.
	Rd 2	PP has submitted “20111010 Comunicación Andritz vida útil sin chimenea.pdf” document. Where technical specifications are provided in detail of the turbines from the manufacturer confirming that the useful lifetime of the turbines is 40-50 years. #CLOSED	

Assessment Question		Findings/Comments (CL 07)	Developer Response
VCS Standard, v4.7 Monitoring report template	Baseline Emissions	Section 4.1 of PD Parameter $EF_{grid,BM}$: The PP is requested to clarify the use of 2022 values from SEIN in its calculation, given that the values for 2023 are already available. Since this parameter is fixed ex-ante, the PP is requested to use the latest available values to calculate it.	At the time of the PD development, values for 2023 were not available. However, since the submission request for the renewal of the crediting period was made (finally) after March 2024, when SEIN published the 2023 data, the most up-to-date values should be used in the calculation according to Tool 07 version 7, paragraph 72a. According to DOE requirement, parameter $EF_{grid,BM}$ has been updated using 2023 data.
	Rd 2	PP has appropriately revised section 4.1 of PD to update the $EF_{grid,BM}$ as per latest available value for 2023. VVB has found the calculations to achieve the value in “Peru Electricity System EFBM 2023 calculation_v1” document satisfactory. #CLOSED	

Assessment Question		Findings/Comments (CAR 01)	Developer Response
VCS Standard, v4.7 Monitoring report template	VCS Monitoring Template	In accordance to Monitoring report template: PP shall revise the file name to - VCS MR Project ID DDMMYYYY-DDMMYYYY	File name changed to "VCS_PD1348-CP2_Las Pizarras Project_v2"
	Rd 2	PP has appropriately updated the file name in accordance with "VCS PD ProjectID DDMMYYYY" format as per VCS Project description template. #CLOSED	

Assessment Question		Findings/Comments (CAR 02)	Developer Response
	Project Crediting Period	Section 1.10 of PD:	A clarification has been included in Section 1.10 about how many times can the project be renewed.

Assessment Question		Findings/Comments (CAR 02)	Developer Response
VCS Standard, v4.7 Monitoring report template		The PP is requested to include the number of times the crediting period of the project can be renewed. While the 1st Crediting Period Project Description specifies that the project is renewable twice, the 2nd Crediting Period Project Description does not provide this information. To ensure consistency across all documents, the PP is requested to revise the PD accordingly.	
	Rd 2	PP has updated section 1.10 to clarify on the number of times the crediting period of the project can be renewed. VVB has reviewed the justification provided and has been found appropriate. #CLOSED	

Assessment Question		Findings/Comments (CAR 03)	Developer Response
VCS Standard, v4.7 Monitoring report template	Employees of the project and Organizational Structure	Section 5.3 of MR: The PP is requested to update Figure 6: General Management Structure of the project activity, to ensure consistency with the employment records submitted.	Figure 6 has been updated according to the last employment changes.
	Rd 2	PP has updated section 5.3 figure 6 inline with employment records submitted #CLOSED	

APPENDIX 4: COMPETENCE OF TEAM MEMBERS AND TECHNICAL REVIEWERS

Competency Statement	
Name	Manika Mongia
Years of Experience	3+
Qualifying Roles	
Team Leader	Yes
Auditor	Yes
Country Expert	Yes, CE Region 1 (English) / CE Region 6 (Hindi)
Technical Expert	Yes (1.1)
Financial Expert	No
Independent Reviewer	No
Approval	
Approved by	Head of Quality and Compliance, SustainCERT
Date	27/10/2023

Competency Statement	
Name	Muskan Chawla
Years of Experience	2+
Qualifying Roles	
Team Leader	No
Auditor	Yes
Country Expert	Yes, CE Region 1 (English) / CE Region 6 (Hindi)
Technical Expert	Yes (1.1, 1.2)
Financial Expert	No
Independent Reviewer	Yes
Approval	
Approved by	Head of Quality and Compliance, SustainCERT
Date	4/10/2023

Competency Statement	
Name	Carlos Orbegozo Reto
Years of Experience	1 Year
Qualifying Roles	
Team Leader	No
Auditor	Yes
Country Expert	Yes, CE Region 1 (English) CE Region 2, (Spanish)
Technical Expert	Yes (1.2)
Financial Expert	No
Independent Reviewer	No
Approval	

Approved by	Head of Quality and Compliance, SustainCERT
Date	21/08/2024