



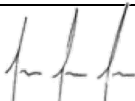
**Validation report form for post-registration changes for
CDM project activities
(Version 03.0)**

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	Orosí Wind Power Project 6652
Process track	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
Version number of the validation report	02
Completion date of the validation report	11/02/2021
Type(s) of PRCs	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents ¹ <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation project activities
Version number of PDD to which this report applies	5
Project participants	Inversiones Eólicas de Orosí Dos, S.A. (IEDO) (Private Entity)
Host Party	Costa Rica
Applied methodologies and standardized baselines	ACM0002: "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" (Version 12.3.0)
Mandatory sectoral scopes	1- Energy Industries – Renewable Sources
Conditional sectoral scopes, if applicable	Not applicable

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).

Name and UNFCCC reference number of the DOE	Colombian Institute for Technical Standards and Certification (ICONTEC) – E-0024
Name, position and signature of the approver of the validation report	 Juan Sebastian Salazar Technical Director

SECTION A. Executive summary

ICONTEC was contracted by Inversiones Eólicas de Orosí Dos, S.A. (IEDO) to perform a validation assessment of PRC – Permanent changes to the registered monitoring plan of the project No. 6652 Orosi Wind Power Project on the basis of UNFCCC criteria contained in the criteria of the CDM Executive Board and the host country, as well as the operational and technical monitoring criteria specific to this type of project.

The Project is located in Costa Rica, in the community of Quebrada Grande, Municipality of Liberia, in Guanacaste Province.

The post registration change is requested because since May 1st, 2017, the Orosí Project share the transmission line called “Orosí – Pailas”, with two new projects Vientos de la Perla Wind Project and Vientos de Miramar Wind Project. Generation is first delivered to the Orosí substation, where the apportioning is made, after which the electricity is delivered to the final metering point at Las Pailas Substation. The electricity measure and measurements gathering will be performed as determined in the PPA (clause 29) signed with ICE (Energy Utility) for each Project. All projects connected to the Orosi substation will use the same procedure to calculate the net energy.

The proposed project activity under PRC validation process is based on the consolidated baseline methodology for grid-connected electricity generation from renewable sources ACM0002, version 12.3.0.

The verification process consisted of the following three phases:

- I. Desk review of the monitoring documentation, registered PDD, validation report, previous verification reports and relevant information (e.g. IPCC reports).
- II. Virtual visit, remote audit and follow-up interviews with project stakeholders
- III. Resolution of outstanding issues and the issuance of the final Validation report for post-registration changes for CDM project activities.

The review of the project’s documentation, registered PDD, previous validation report at registration stage, relevant information and interviews allowed ICONTEC to collect enough evidence to completely assess the validation criteria and determinate that the permanent changes to the registered monitoring plan by the PP, complied with relevant CDM requirements.

The permanent change applied since May 1st, 2017 onwards.

SECTION B. Validation team, technical reviewer and approver**B.1. Validation team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Validation findings
1.	Leader auditor	IR	Urrego Ortiz	Erika Lucia	Employee	X	X	X	X
2.	Technical expert	EI	Gomez Gomez	Fernando	Freelance	X	X	X	X

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

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	EI	Ramirez	Francy	Freelance
2.	Approver	IR	Salazar	Juan Sebastian	Employee

SECTION C. Means of validation**C.1. Desk/document review**

The PRC validation of the project documentation provided by the project proponent is based upon both quantitative and qualitative information on emission reductions. Quantitative information comprises the reported figures in the PDD and MR submitted together with this report. Qualitative information comprises information on internal management controls, calculation procedures, and actions for transferring of data, frequency of emission reports, and review and internal audit of calculations.

Main documents provided by the project proponent reviewed during the desk review stage were:

- PDD Orosí wind power project version 5, dated on 25/01/2021 with track changes and clean /1/
- Monitoring report Orosí wind power project as submitted to UNFCCC, version 01, dated on 04/12/2020 /2/
- Emission reduction calculation file CDM_MR_OROSI.xlsx /3/

In addition to the monitoring documentation provided by the project proponent, ICONTEC reviewed:

- Registered PDD Orosí wind power project version 4, dated on 15/09/2014 /1/
- Validation Report issued by TÜV NORD CERT GmbH, Report N°: 8621 – 12/028, dated on 10/10/2012. /4/
- Previous verification and certification report Orosí Wind power project, second monitoring period (07/09/2015 to 31/12/2016) /5/.
- Previous monitoring report Orosí wind power project version 1.0, dated 06/04/2017 /6/
- Consolidated baseline methodology for grid-connected electricity generation from renewable sources ACM0002, version 12.3.0/UN1/
- Tool to calculate the emission factor for an electricity system, version 07.0/UN2/
- CDM validation and verification standard for project activities, version 02.0 /UN3/
- CDM project standard for project activities, version 02.0 /UN4/
- CDM project cycle procedure for project activities, version 02.0 /UN5/
- CDM-PDD-FORM Project design document form, version 11.0 /UN6/

A compilation of the documents related to the PRC validation activities has been included on Appendix 3.

C.2. On-site inspection

According to the restrictions caused by COVID-19, on the Meeting report CDM Executive Board 108th, was extend the period in which designated operational entities (DOEs) may apply alternative measures of validation/verification to mandatory on-site inspections until 30 June 2021. For this reason, the validation of PRC and verification were conducted without on-site inspection.

A virtual visit and audit remote were carried out between 13/01/2021 to 14/01/2021 as part of the verification audit for the third monitoring period (01/01/2017 to 31/12/2019) where the following activities were performed:

Duration of on-site inspection: 13/01/2021 to 14/01/2021				
No.	Activity performed on-site	Site location	Date	Team member
1.	Description of the nature of the project, its implementation and its operation.	Audit remote on Project's site	13/01/2021	Erika Urrego Fernando Gomez
2.	Virtual tour by the project's facility, include the interconnection point of the project activity.			
3.	Compliance of monitoring activities with the registered monitoring plan			
4.	Review of project design document: updating relevant sections, using latest valid version of the PDD form for the revised PDD.			
5.	Compliance of the registered monitoring plan with the methodologies including applicable tools.			
6.	Compliance of the monitoring report with the monitoring report form.		14/01/2021	
7.	Monitoring Plan and description of the permanent change to the registered monitoring plan.			
8.	Compliance of the project implementation and operation with the registered PDD			
9.	Assessment of data and calculation of emission reductions			

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Castro	Sofía	CDM Consultant	13 to 14 /01/2021	Description of the nature of the project, its implementation and its operation. Virtual tour by the project's facility, include the interconnection point of the project activity. Compliance of monitoring activities with the registered monitoring plan Review of project design document: updating relevant sections, using latest valid version of the PDD form for the revised PDD. Compliance of the registered monitoring plan	Erika Urrego Fernando Gomez
2.	García	Steven	Planning and Reliability Analyst			
3.	Nino	Luis	Operations coordinator			
4.	Alvarado	Josh	Plant manager			

					with the methodologies including applicable tools. Compliance of the monitoring report with the monitoring report form. Monitoring Plan and description of the permanent change to the registered monitoring plan. Compliance of the project implementation and operation with the registered PDD Assessment of data and calculation of emission reductions	
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C.4. Sampling approach

ICONTEC checked 100% of project's information hence, no sampling approach was required.

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

During the desk review were identified CL 01, 02, 03 and CAR 01. During virtual audit was identified the CL 4.

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	CL 01	CAR 01	
Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents			
Corrections	CL 4		
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 02 CL 03		
Changes to the project design			
Changes specific to afforestation and reforestation project activities			
Others (please specify)			
Total	4	1	0

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	<p>PDD reviewed version 05, in both track-change and clean versions, dated on 11/11/2020, were delivered to the ICONTEC by the project participants for development the documental review for the validation of post registration change request.</p> <p>During this stage the information of PDD revised version 5 was compare with PDD version 04 dated on 15/09/2014 and the Project design document form version 11.0, to confirm that the information on the new version of PDD reviewed were materiality the same.</p>
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Findings	<p>It was identified the CL 1 and CAR 01.</p> <p>CL 1 was identified for failing to comply with instructions for filling in the PDD form and CAR 1 because Table B.6.4 Summary of ex ante estimates of emission reductions was wrongly copied in the revised PDD.</p> <p>Please see Appendix 4 for more details.</p>
Conclusion	<p>After the PP sent the revised PDD version 5, dated 25/01/2021, with attention to the findings, ICONTEC was able to conclude that the new version of the PDD meets the requirements of the PDD form version 11.0 and the information transferred from version 4 to version 5 is materially the same.</p>

D.2. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents

Means of validation	N/A
Findings	
Conclusion	

D.3. Corrections

Means of validation	<p>During the virtual audit for the verification stage, section D.1 data and parameters fixed ex-ante of the monitoring report version 1.0 of 12/04/2020 / 2 / was compared with PDD version 4, section B.6.2 Data and parameters fixed ex ante, and it was found that in this section of the PDD the parameters used to calculate the emission factor were found, but the emission factor Efgrid, CM, 2008, 2009, 2010 was not found. As it is a fixed parameter for the entire crediting period, ICONTEC asked the PP to include Efgrid, CM, 2008, 2009, 2010, value applied: 0.3528, in section B.6.2 of the revised PDD.</p>
Findings	<p>ICONTEC identified CL 4, requesting the PP to include in section B.6.2 the data and parameters established ex ante of the revised PDD, the parameter fixed ex-ante Efgrid, CM, 2008, 2009, 2010.</p> <p>Please see Appendix 4 for more details.</p>
Conclusion	<p>The PP sent the revised PDD version 5, dated 25/01/2021, with attention to the finding, ICONTEC verified that the correction in the new version of the PDD is a faithful reflection of the real information of the project and that includes the parameter in Section B .6.2 of the revised PDD is correct and is in accordance with the applied methodology, the registered monitoring plan and the other applied methodological normative documents.</p>

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

Means of validation	N/A
Findings	
Conclusion	

D.5. Inclusion of a monitoring plan

Means of validation	N/A
Findings	
Conclusion	

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

<p>Means of validation</p>	<p>The original monitoring system, as defined in the last validated PDD/1/, and applied from October 2nd, 2015 until April 30th, 2017, consisted in measure the energy delivered by Orosi power plant to the national grid $EG_{facility,y}$ at Pailas substation through the dedicated transmission line Orosí – Pailas.</p> <p>As defined in the PRC requested, in May 1st 2017 two new power plants, called Vientos de la Perla Wind Project and Vientos de Miramar Wind Project were connected to the Orosi Substation, such that the three power plants share the transmission line “Orosí – Pailas” in order to deliver their energy production to the national grid at Pailas Substation.</p> <p>Under this condition it is not possible to continue measuring $EG_{facility,y}$ directly at the end of the transmission line Orosi-Pailas at Substation Pailas.</p> <p>A new procedure for obtaining $EG_{facility,y}$ was established in the PPA by ICE, consisting in the application of the following approach:</p> <p>$EG_{facility,y} = MO_{O,y} - ((MO_{T,y} - MP_{P,y}) MO_{O,y} / MO_{T,y})$, where:</p> <p>$MO_{O,y}$ = Quantity of gross electricity generation that is produced by Orosí Project in year y and is measured at the Orosi Substation (MWh/yr).</p> <p>$MO_{T,y}$ = Quantity of total gross electricity generation that is produced by all plants connected to the Orosi substation, in year y (MWh/yr)</p> <p>$MP_{P,y}$ = Quantity of net electricity generation that is produced by all plants (Orosí, Vientos de la Perla and Vientos de Miramar power plants) and fed into the grid in year y as measured at the Las Pailas substation (MWh/yr).</p> <p>Under this approach, $EG_{facility,y}$ is obtained by subtracting the transmission losses proportionally to the energy delivered by each power plant at the commence of the transmission line, where $(MO_{T,y} - MP_{P,y})$ are the total losses and $MO_{O,y} / MO_{T,y}$ is the proportion corresponding to Orosí power plant.</p> <p>The procedure of measure established that Orosí have two bi-directional meters (main and backup), described as MO, installed at the Orosí substation (high voltage bus). This meter is used to measure gross electricity generated by the Plant. Another pair of meters (main and backup), described as MO_T, are installed also in the Orosí Substation that measure the total incoming energy from all the plants delivering to the substation.</p> <p>The Metering Point used for billing purposes is located in Las Pailas Substation (ST Las Pailas), property of ICE, where another pair of meters, main and a back-up were installed (MP_P). These meters measure the total net energy coming from the Orosi Substation. The energy loses in the transmission line between the two substations will be distributed proportionally according to the energy delivered by each power plant as measured at the Orosi substation.</p> <p>ICONTEC verified this change compare the power purchase contract No. 2013000037 signed between Instituto Costarricense de Electricidad – ICE (On English Costa Rican Electricity Institute – ICE) and Inversiones Eólicas de Orosí Dos, S.A. (IEDO) on August 1st, 2013 /7/ with the addendum No.4 /8/ to the same contract where was added the connection of the new plants and the procedure to measure the energy of each one.</p> <p>In the view of the DOE, this is the right way to obtain $EG_{facility,y}$ under the new situation. By the way, the DOE confirmed that, in fact, this is the approach defined in the PPA signed jointly by Orosí and ICE /7/, /8/.</p>
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	<p>ICONTEC confirm that this change does not produce increase in emission reductions or affects the calculations of the reduction of emissions estimated in the previous PDD /1/.</p> <p>This change was described by the PP in the monitoring report version 3.0, dated 09/02/2021.</p>
Findings	<p>It was identified the CL 2 and CL 3.</p> <p>CL 2 was requested to PP clarified information about the main meter used to $EG_{facility,y}$, and the parameters M_O, M_{OT} and CL 3 because on section Section B.7.3 Other elements of monitoring plan, it is not clear the use of the expression “each plant in year y”.</p> <p>Please see Appendix 4 for more details.</p>
Conclusion	<p>ICONTEC deems that the proposed approach to obtain $EG_{facility,y}$ is in compliance with the applied methodology, and do not reduce the level of accuracy of the monitoring. In fact, assigning the electrical losses to each plant sharing the transmission line proportionally to its energy production, it is technically equivalent to the transmission losses occurring when the transmission line is dedicated only to each plant.</p> <p>After the PP sent the revised PDD version 5, dated 25/01/2021, with attention to the findings, ICONTEC was able to conclude that the permanent change on the registered monitoring plan is in compliance with the applied methodology and the other applied methodological normative documents. Also, with the relevant requirements in the CDM project standard for project activities /UN4/.</p> <p>This change on the registered monitoring plan do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan and neither a reduction in the accuracy of the calculation of GHG emission reductions.</p>

D.7. Changes to the project design

Means of validation	N/A
Findings	
Conclusion	

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

Means of validation	N/A
Findings	
Conclusion	

SECTION E. Internal quality control

This report includes the validation findings that underwent a technical review before being submitted to UNFCCC.

The technical review and the quality control process was performed by an internal technical reviewer team in accordance with the ICONTEC's internal procedures for carrying out validation, verification and certification audits of CDM project activities. After this step, the submission for requesting for issuance is done.

The technical reviewers are qualified in accordance with the ICONTEC's professional qualification scheme for CDM validation and verification.

SECTION F. Validation opinion

ICONTEC performed the validation of post-registration changes to Orosi Wind Power Project, registration number 6652, owned by Inversiones Eólicas de Orosí Dos, S.A. (IEDO). This validation was performed based on the requirements set by the CDM and relevant guidance provided by CMP and the CDM Executive Board.

The validation consisted of the following three phases: i) desk review of the project design document and additional background documents; ii) Virtual visit, remote audit and follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final validation report and opinion.

The review of the permanent change to the registered monitored plan, relevant additional information and the subsequent follow-up interviews have provided ICONTEC with sufficient evidence to determine the fulfilment of stated criteria. It is ICONTEC's opinion, that the post-registration changes meet all relevant requirements for the CDM. ICONTEC thus request the approval of the post-registration changes of the project activity.

Appendix 1. Abbreviations

Abbreviations	Full texts
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CERs	Certified emission reductions
CL	Clarification Request
CO ₂ e	Carbon dioxide equivalent
DNA	Designated National Authority
IEDO	Inversiones Eólicas de Orosí Dos, S.A.
Ers	Emission Reductions
GHG	Greenhouse Gases
ICONTEC	Colombian Institute of Technical Standards and Certification (Instituto Colombiano de Normas Técnicas y Certificación)
IPCC	Intergovernmental Panel on Climate Change
MR	Monitoring Report
ICE	Instituto Costarricense de Electricidad Costa Rican Electricity Institute
PCP	CDM Project Cycle Procedure
PDD	Project Design Document
PP	Project Participant
PRC	Post Registration Change
PS	CDM Project Standard for project activities
UNFCCC	United Nations Framework Convention for Climate Change
VVS	CDM Validation and Verification Standard for project activities

Appendix 2. Competence of team members and technical reviewers

ERIKA LUCIA URREGO ORTIZ

Lead auditor CDM

MAIN PROFESSIONAL EDUCATION

MSc on Quality and integral management. Universidad Santo Tomas en Convenio con ICONTEC. Bogotá, Colombia. April, 2013.

Magister Environmental Management Systems. Universidad Externado de Colombia. Bogotá D.C. September 2002

Zootechnician, Universidad Agraria de Colombia, Bogotá D.C. Colombia. August 1997.

Lead Auditor on Energy management systems under ISO 50001:2011 and version 2018. Bogotá, Colombia. Since July 2015.

Lead auditor on Quality Management Systems under ISO 9001, ICONTEC, Bogotá, Colombia. Since 2006.

Lead auditor on OHSAS 18001 and ISO 45001, ICONTEC, Bogotá D.C. Since July 2005.

Lead auditor Environmental management system under ISO 14001, ICONTEC, Bogotá, Colombia. Since 2002.

Updating on CDM Course, Ministry of Environment, Housing and Territorial Development, Bogotá D.C, Colombia. 2006

PROFESSIONAL EXPERIENCE

- **ICONTEC (2006 – Actual)**

To prepare and perform the certification services assigned as per her career plan qualification, according to the stated on the procedures. To provide guidance to the certification costumers about the technical aspects of the assigned services provision. To participate in changing or designing certification services, by changing or creating the respective procedures. Perform audits on schemes of ISO 9001, ISO 14001, OHSAS 18001, ISO 45001, ISO 50001.

Perform Validation and verification of CDM projects like lead on CDM, technical expert and lead auditor to scope 13. Responsible of the accreditation with UNFCCC.

- **ASOCIACION COLOMBIANA DE PORCICULTORES-FNP (2003 – 2006) (Colombian Association of Pig Farmers)**

To coordinate the activities to be performed by the Environmental Window Program in the various country areas. To allocate and execute resources engaged under the Cleaner Production agreements signed together with several environmental authorities. To lead the CDM project, focused to reduce methane (CH₄) emissions issued by animal waste.

To be aware of the Ecuadorian and Chilean methodologies already approved by the CDM's Executive Board for Hog Breeding Sector to elaborate a proposal for the hog breeding sector together with the Ministry of Environment, Housing and Territorial Development in order to join farms to CDM projects.

- **FICHTNER GmbH & Co. KG (2001 – 2002)**

To prepare, design and apply surveys focused to identify power consumption in the sector of slaughter, processed meat and food concentrate for animals

- **Regional Environmental Authority (CAR Sumapaz) 1998 – 2001**

To support the environmental management unities on technical concepts of processes, permissions, sanctions, control, monitoring and assessment in the proper and timely management of the Sumapaz area's natural resources.

EXPERIENCE IN CDM ACTIVITIES

Lead auditor on validation MDL:

1. Validation of Macano Small Hydro Power Plant, Panamá
2. Validation of Montenegro Landfill Gas Recovery and Flaring, Colombia
3. Validation of Monteria Landfill Gas Recovery and Flaring, Colombia
4. Validation of Pírgua Landfill Gas Recovery and Flaring, Colombia
5. Validation of Tunjita Diversion Hydroelectric Project, Colombia
6. Validation of El Toqui wind power project, Chile
7. Validation of Los Angeles Landfill Gas Flaring Project, Colombia
8. Validation of Ferreira Gomes Hydro Power Plant CDM Project, Brazil
9. Validation of BRASILM 1 – Avoidance of Methane Emissions through Composting of Manure Waste, Brazil

10. Validation of CGR Catanduva Landfill Gas Project, Brazil
11. Validation of Macaúbas Landfill Gas Project, Brazil
12. Validation of Palmaceite Wastewater Treatment and Biogas Utilization Project, Colombia
13. Validation of Teresina Landfill Gas Project, Brazil
14. Validation of Maceio Landfill Gas Project, Brazil
15. Validation of SHP Morro Azul CDM Project (JUN1164), Colombia
16. Validation Doña Teresa Small hydro power plant, Colombia
17. Validation Biogas recovery and heat generation from Palm Oil Mill Effluent (POME), Coopeagropal. Costa Rica.
18. Validation Panuco Bagasse Cogeneration Project. México.

Lead auditor on verification MDL:

19. Verification of Biogas energy plant from palm oil mill effluent, Guatemala 2
20. Verification of Doña Juana Landfill gas-to-energy project, Colombia
21. Verification of Tres Valles Cogeneration Project, Honduras
22. Verification of Landfill Gas to Energy Facility at the Nejapa Landfill Site, El Salvador, El Salvador
23. Verification of La Venta II, México
24. Verification of Jepirachi Wind Power Project, Colombia
25. Verification of Santa Ana Hydroelectric Project, Colombia
26. Verification of BRASCARBON Methane Recovery Project BCA-BRA-01, Brazil
27. Verification of BRASCARBON Methane Recovery Project BCA-BRA-02, Brazil
28. Verification of BRASCARBON Methane Recovery Project BCA-BRA-03, Brazil
29. Verification of Ciudad Juárez Landfill gas-to-energy Project, México.

Lead auditor renewal crediting period:

30. Monte Rosa Bagasse Cogeneration Project (MRBCP)

Lead auditor on other schemes:

31. Validation VCS de Reforestación de áreas de pastura en la Sociedad Agrícola de Interés Social "José Carlos Mariátegui" – Proyecto Joven Forestal, Perú.
32. Validation Gold Standard Energy Efficiency at Ladrillera Alcarraza, Colombia.
33. Validation Gold Standard de Paramonga Bagasse Boiler Project, Perú.
34. Validation and Verification VCS of BRASCARBON Methane Recovery Project BCA-BRA-02, Brazil
35. Validation and Verification VCS of BRASCARBON Methane Recovery Project BCA-BRA-03, Brazil
36. Validation and Verification VCS of BRASCARBON Methane Recovery Project BCA-BRA-05, Brazil
37. Validation and Verification VCS of BRASCARBON Methane Recovery Project BCA-BRA-07, Brazil
38. Validation and Verification VCS of BRASCARBON Methane Recovery Project BCA-BRA-08, Brazil

Technical expert:

39. Validation of ECC methane capture and combustion from AWMS at dairy farms in Mexico – I, México
40. La Calera Biodigesters Project, Perú

Technical Review:

41. Validation of Fuel Switching through change of furnaces at Imusa S.A., Colombia
42. Validation of Cervecería Hondureña Methane Capture Project, Honduras
43. Validation of Paysandú Clean Energy, Uruguay
44. Validation of Securitization and Carbon Sinks Project, Chile
45. Validation of METALDOM Fossil fuel switch from reheat furnace, República Dominicana
46. Validation of Reforestation of degraded/degrading land in the Caribbean Savannah of Colombia, Colombia
47. Validation of Co-composting of organic residues in ORO ROJO's Palm Oil Mill at Sabana de Torres, Colombia
48. Validation of EMGEA Small Hydropower (SHP) Run-of-the-River CDM Project Bundle, Colombia
49. Validation of Energy efficiency at Malvinas Gas Plant, Perú
50. Validation of Marañón Hydroelectric Project, Perú
51. Validation of Santa Rita Hydroelectric Plant, Guatemala
52. Verification of Bio energy in General Deheza –Electric power generation from peanut hull and sunflower husk-, Argentina
53. Validation of Biogas project, Olmeca I, Santa Rosa, Guatemala
54. Validation of CTR Rosario Landfill Gas Project, Brazil
55. Validation of SHP Itaguacu CDM Project (JUN 1146), Brazil
56. Validation of Taurichuco Hydropower Project, Perú
57. Validation of Feira de Santana Landfill Gas Project, Brazil
58. Validation of Doña Juana Landfill gas-to-energy Project, Colombia
59. Renovación Inversiones Hondurenas Cogeneration Project
60. Validación SHPs Tambaú, das Pedras and Rio do Sapo CDM Project (JUN1132), Brazil
61. Validación SHPs Poço Fundo and Providência CDM Project (JUN1133), Brazil
62. Validación Santa Rita Hydroelectric Plant, Colombia
63. Validation Conservation and reforestation of degraded areas in Barbosa, Colombia
64. Verification Doña Juana Landfill gas-to-energy Project, Bogotá, Colombia.
65. Verificación Monomeros nitrous oxide abatement Project. Barranquilla, Colombia.
66. Verification BRT Bogotá, Colombia: TransMilenio Phase II to IV
67. Verification BRT Macrobus Guadalajara, Mexico
68. Verification Inversiones Hondurenas Cogeneration Project, Honduras.
69. Verification Incauca S. A. Fuel Switch from Coal to Green Harvest Residues CDM Project. Colombia.
70. Verification Brascarbon 14, -Brazil.
71. RCP BRASCARBON Methane Recovery Project BCA-BRA-04, 09 and 15
72. Verification BRASCARBON Methane Recovery Project BCA-BRA-05, 08, 13 and 15.

FERNANDO GÓMEZ GÓMEZ

Technical expert Scope 1

Electrical Engineer. Universidad Nacional (1967)
 Master of Power Systems – Instituto Tecnológico de Monterrey (1970)
 EAFIT Financial Specialist (1984)

PROFESSIONAL EXPERIENCE

- ENVISERVICES SAS (2014)

Technical and Energy Advisory in registering hydro power generation projects into the UPME (Mining and Energy Planning Unit) catalog of projects for long term Colombian national expansion plan.

- PERSONAL CONTRACT (2014) for BID (Interamerican Development Bank)

As an Expert in Energy Economics to review the study “Vulnerabilidad al Cambio Climático de los sistemas de producción hidroeléctrica en Centroamérica y sus opciones de adaptación” (Vulnerability of the Central American hydroelectric systems to the Climate Change and adaptation options), commissioned by OLADE (Latin America Energy Organization) to the Incam Group.

- ICONTEC (from 2006 to present)

Specialist Scope 1. CDM Activities (Attached)

- GESTION Y AUDITORIAS ESPECIALIZADAS – GAE LTDA. Technical and Economic Advisory (November 2004 – May 2005)

Technical and Economic Advisory to Superintendencia de Servicios Públicos Domiciliarios (Superintendent of Public Services) in integral auditing to EPM (Medellín Public Services Utility) management of energy and gas services.

- ECONOMETRÍA S.S. – Technical Advisory (October 2002 – March 2003)

Technical Advisory to Unidad de Planeación Minero Energética to incorporate international electrical interconnections into the Colombian electrical planning carried by UPME, (including use of SUPEROLADE, MPODE, NEPLAN and REAL models).

- ECOENERGIA S.S. ESP – Founding Member and Manager

Management of private projects of generation, distribution and commercialization of power.

- UNIDAD DE PLANEACIÓN MINERO ENERGÉTICA – UPME (October 1996 – October 1997)

Elaboration of Catalog of Generation Projects for National Energy Plan,

- AUDITORES ENERGÉTICOS – AENE LTDA (October 1994 – March 1995)

Advisory to the company in the application of the new regulatory scheme of Colombian electrical sector to private and public entrepreneurial management through the following studies:

- CORELCA: Determination of marginal costs and development of innovative rate structures for power generation companies and big industrial customers, October 1994 – March 1995.
- CORELCA: Development and application of rate models to prepare proposal on power sale in the wholesale market, July 1995 – September 1995.
- Empresa de energía de Cundinamarca – EEC: Advisory in convoking and long-term power contracting, July 1995 – September 1995.

- Instituto Nacional de Ciencias Nucleares y Energías Alternativas – INEA: Development of tutorial model for financial assessment of energy projects in the industry, April 1995 – September 1995.
- Consorcio Nacional de Energía CNE : Consortium Management. Elaboration of studies on power commercialization in Colombia and competitive strategies. Interpretation and application of the Code of Commerce, Code of Networks and other power regulatory standards – commercial activity in Colombia, October 1995 – March 1996.
- EMPRESA DE ENERGIA DE BOGOTÁ – EEB (1978 – 1994)

Positions:

- Chief of the Department of generation planning, interconnection and sub-transmission, 1978 – 1979.
- Chief of Electric Planning Division, 1979 – 1986.
- Assistant for Technical Sub-management, 1986 – 1987
- Chief of Special Projects Division, 1987
- Chief of expansion and Development Division, 1987 – 1994
- Management Advisor, 1994
- INTERCONEXIÓN ELÉCTRICA S.A – ISA (1976 – 1978)

Engineer Specialist in electric planning Research and development of models for planning and operation of electric systems.

National Coordinator of Colombian electric system planning in the project “Study of Electric Power Sector (Estudio del Sector de Energía Eléctrica), ESEE” winner of the National Award of Engineering.

EXPERIENCE IN CDM ACTIVITIES

Participation in:

- Validation of Thuan Nhien Phong Wind Farm
- Validation of Phuong Mai 3 Wind Power Project
- Validation of Fossil Fuel replacement by Biomass in the Brick Manufacturing Industry (Group 1)
- Validation of CTR Rosario Landfill Gas Project
- Validation of SHP Itaguacu CDM Project (JUN 1146), Brazil
- Validation of Palmaceite Wastewater Treatment and Biogas Utilization Project
- Validation of Agua Fresca Multipurpose and Environmental Services
- Validation of CTR Feira de Santana Landfill Gas Project
- Validation of SHP Morro Azul CDM Project (JUN 1164)
- Validation of Biogas recovery and heat generation from Palm Oil Mill Effluent (POME), Coopeagropal.
- Validation of EPM Grouped Natural Gas Project
- Validation of Caruquia 9.76 MW hydroelectric project
- Validation of Cervecería Hondureña Methane Capture Project

- Validation of El Bote Small Hydroelectric Plant project
- Validation of Guanaquitas 9.74 MW hydroelectric project
- Validation of Rio Amoyá Run-of-River Hydro Project
- Validation of Fuel Switching through change of furnaces at Imusa S.A.
- Validation of Installation of a high-pressure/high-efficiency bagasse boiler to cogenerate heat and power
- Validation of Macano Small Hydro Power Plant
- Validation of Cueva Maria Hydroelectric Expansion Project
- Validation of La Vegona Hydroelectric project
- Validation of Chamelecón 280 Hydroelectric project
- Validation of Pardos Small Hydro Plant and LOGICarbon CDM Project
- Validation of Cambará and Embaúba SHPs and LOGICarbon CDM Project
- Validation of Bonyic hydroelectric project
- Validation of Tunjita Diversion Hydroelectric Project
- Validation of METALDOM Fossil fuel switch from reheat furnace.
- Validation of Providencia Sugar Mill Cogeneration Project
- Validation of Toachi – Pilaton Hydroelectric Project
- Validation of El Toqui wind power project
- Validation of Paramonga Bagasse Boiler Project
- Validation of Ferreira Gomes Hydro Power Plant Cdm Project Activity
- Validation of Providencia I: 1.8MW Small Hydro Power Generation Plant
- Validation of Providencia III: 9.11MW Small Hydro Power Generation Plant
- Validation of Marañon Hydroelectric Project
- Validation of Ventana, Suba and Usaquén Hydroelectric CDM Bundled
- Validation of EMGEA Small Hydropower (SHP) Run-of-the-River CDM Project Bundle
- Validation of Inversiones Hondurenas Cogeneration Project
- Validation of Panuco Bagasse Cogeneration Project
- Validation of Pequi and Sucupira SHPs and LOGICarbon CDM Project
- Validation of Santa Rita Hydroelectric Plant
- Validation of Tres Valles Cogeneration Project
- Validation of La Calera Biodigesters Project
- Verification of Agua Fresca Multipurpose and Environmental Services
- Verification of La Cascada 2.3 MW Hydroelectric Project
- Verification of La Venta II
- Verification of RIMA Fuel Switch in Bocaiúva
- Verification of Agua Fresca Multipurpose and Environmental Services
- Verification of Biogas Project, Olmeca III, Tecun Uman
- Verification of Jepirachi Wind Power Project
- Verification of A joint venture project of cogeneration of electricity and hot water using natural gas and biogas produced from on-site wastewater biodigesters
- Verification of Santa Ana Hydroelectric Plant
- Verification of Los Algarrobos hydroelectric project
- Verification of La Joya Hidroelectric project
- Verification of Bio energy in General Deheza –Electric power generation from peanut hull and sunflower husk-
- Verification of Agua Fresca Multipurpose and Environmental Services
- Verification of La Joya Hidroelectric project
- Verification of Biogas energy plant from palm oil mill effluent

- Verification of Incauca S. A. Fuel Switch from Coal to Green Harvest Residues CDM Project
- Verification of Cervecería Hondureña Methane Capture Project
- Verification of Inversiones Hondureñas Cogeneration Project
- Verification of La Venta II
- Verification VCS Montañitas Hydroelectric Project
- Renewal of crediting period Monte Rosa Bagasse Cogeneration Project
- Verification La venta II

Specialist

Verification Of The Venta II

Verification La Vuelta and La Herradura Hydroelectric Project

Renovation Bajo Tuluá Minor Hydroelectric Power Plant (3599)

Renovation Alto Tuluá Minor Hydroelectric Power Plant (3570)

Verification Jepirachi Wind Power Project

Post Registration Change La Venta II

Validation Agua Fresca Multipurpose and environmental services project

Verification Sogamoso Hydroelectric Project

Validation Dos Mares Hydroelectric Project

Technical Review

Verification CIUDAD JUAREZ 2016 2017

Verification Sogamoso Hydroelectric Project

Verification SOMBRILLA CENTRAL HIDROELECTRICAS SUBA Y USAUQUEN

FRANCY MILENA RAMÍREZ TORRES

Technical reviewer CDM and sectoral scope 1.2.

Electrical Engineer.

Universidad Los Andes, 2001

Post grade: Assessment of Social Projects.

Universidad Los Andes, 2005

University of Oxford.

Course: Applying Knowledge Management, Principle and Practices (December 1 de 2009).

University of Oxford.

Course: Successful Change Management for Engineers, Scientists and Staff in Hi-tech Companies (December, 2009).

University of Oxford.

Course: Essentials of Project Management for Engineers, Scientists and Staff in Hi-tech Companies (December, 2009).

University of Oxford.

Course: Advanced Project Management for Engineers, Scientists and Staff in Hi-tech Companies (December 4, 2009).

Climate Change, Trade and Standardization – in a development perspective”. Estocolmo, Suecia (23 and 25 November, 2009)

ISO global workshop on Greenhouse Gas Schemes Addressing Climate Change – How ISO Standards Help,
Estocolmo, Suecia. (20 and 21 November, 2009)

Conference on Climate Change – Deforestation and Standardization. Bali, Indonesia (31 de May y 1 de June de 2010)

PROFESSIONAL EXPERIENCE

- ICONTEC. (2005 – Actually)

Professional of Standardization

Planning, coordinate, implement and ensure compliance with the program of national standardization in technical committees among which are electrical installations, electrical power quality, electrical transformers, substations and equipment for medium and high voltage, lighting, appliances and electrical accessories, protection against lightning strikes and electrical equipment. Develop technical standards. Develop and manage special projects assigned. Participate in programs of regional and international standardization.

- CODENSA (2002 – 2005)

Inspections and electrical works coordinator

Supervise field work and download the results in the central information system, evaluate the inspections performed, reconciled with contractors, addressing the results of inspections to different areas of the company, charging inspections and electrical work to clients of the firm , coordination and support group field sales engineers, technical training for technical staff, administrative support to department business processes and lost control, maintenance of the database for internal management inspections. Project Leader for the Optimization of Technical Processes and Regional Trade in Cundinamarca.

EXPERIENCE IN CDM ACTIVITIES:

Lead Auditor

- Validation of Guanaquitas 9.74 MW hydroelectric project, Colombia
- Validation of Fuel Switching through change of furnaces at Imusa S.A., Colombia
- Validation of Installation of a high-pressure/high-efficiency bagasse boiler to cogenerate heat and power, Argentina
- Validation of Cueva Maria Hydroelectric Expansion Project, Guatemala
- Validation of Paysandú Clean Energy, Uruguay
- Validation of La Vegona Hydroelectric project, Honduras
- Validation of Chamelecón 280 Hydroelectric project, Honduras
- Validation of Pardos SHPs and LOGICarbon CDM Project, Brazil
- Validation of Pequi and Sucupira SHPs and LOGICarbon CDM Project, Brazil
- Validation of Cambará and Embaúba SHPs and LOGICarbon CDM Project, Brazil
- Validation of Bonyic hydroelectric project, Panamá

- Validation of METALDOM Fossil fuel switch from reheat furnace, República Dominicana
- Validation of Toachi – Pilaton Hydroelectric Project, Ecuador
- Validation of EMGEA Small Hydropower (SHP) Run-of-the-River CDM Project Bundle, Colombia
- Validation of Energy efficiency at Malvinas Gas Plant, Perú
- Validation of Marañon Hydroelectric Project, Perú
- Validation of Santa Rita Hydroelectric Plant, Guatemala
- Validation of Taurichuco Hydropower Project, Perú
- Validation of Aguafresca Multipurpose and Environmental Service Project, Colombia
- Validation of Ventana, Suba and Usaquén Hydroelectric CDM Bundled, Colombia
- Validation Post Registration Changes BK Energia Itacoatiara LTDA. (Precious woods Energia)
- Validation “Consortio Relleno Sanitario Nuevo Mondoñedo”
- Validation VCS “Mulatos II”
- Validation Gold Standard: Cururos win farm project
- Validation Gold Standard Amayo Phase II Wind Power Project
- Verification of Los Algarrobos hydroelectric project, Panamá
- Verification of Bio energy in General Deheza –Electric power generation from peanut hull and sunflower husk-, Argentina
- Verification of Agua Fresca Multipurpose and Environmental Service Project, Colombia
- Verification of La Joya Hidroelectric project, Costa Rica
- Verification of Amaime Minor Hydroelectric Power Plant, Colombia
- Verification La Vuelta and la Herradura hydroelectric project
- Verification VCS ECOFROTAS Fleet Fuel Substitution
- Verification Doña Juana Landfill Gas-To-Energy Project
- Renewal of Crediting Period Poechos II hydroelectric plant project
- Renewal of Crediting Period Xacbal Hydroelectric Project
- Renewal of Crediting Period Queluz Renewable Energy Project
- Verification Orosí
- Verification La Vuelta and La Herradura Hydroelectric Project
- Verification DOÑA JUANA LANDFILL GAS-TO-ENERGY PROJECT
- Verification Sogamoso Hydroelectric Project
- Validation VCS Larimar Wind Farm Project
- Validation VCS PUBLIC LIGHTING SERVICE IN THE MUNICIPALITY OF SAN SALVADOR delta
- Validation VCS ESCUELA DE MINAS
- Verification CIUDAD JUAREZ
- Verification CIUDAD JUAREZ
- Post Registration Change Fedepalma
- Verification Fedepalma
- Verification Sogamoso Hydroelectric Project
- Renovation Bajo Tuluá Minor Hydroelectric Power Plant (3599)
- Renovation Alto Tuluá Minor Hydroelectric Power Plant (3570)
- Verification SOMBRILLA CENTRAL HIDROELECTRICAS SUBA Y USAUQEN

Specialist

- Validation of Rio Bonito and Baitaca SHPs and LOGICarbon CDM Project, Brazil
- Validation VCS of Pequi and Sucupira SHPs and LOGICarbon CDM Project, Brazil
- Verification of three crediting periods of La Vuelta and la Herradura hydroelectric project, Colombia
- Renewal of Crediting Period Poechos II hydroelectric plant project
- Renewal of Crediting Period Renewal of Crediting Period
- Renewal of Crediting Period Queluz Renewable Energy Project

- Verification Orosí
- Verification La Vuelta and La Herradura Hydroelectric Project
- Verification Sogamoso Hydroelectric Project
- Verification La venta II
- Verification Sogamoso Hydroelectric Project
- Verification SOMBRILLA CENTRAL HIDROELECTRICAS SUBA Y USAUQUEN

CDM Technical Reviewer

- Validation of Improving energy efficiency in a new Gas Plant in Gibraltar – Colombia
- Validation of Tres Valles Cogeneration Project, Honduras
- Validation of Tunjita Diversion Hydroelectric Project, Colombia
- Validation of Ferreira Gomes Hydro Power Plant CDM Project, Brazil
- Verification of two crediting periods of La Venta II, México
- Verification of two crediting periods of La Joya Hidroelectric Project, Costa Rica
- Verification of Bio energy in General Deheza –Electric power generation from peanut hull and sunflower husk-, Argentina
- Verification of Tres Valles Cogeneration Project, Honduras
- Verification of Agua Fresca Multipurpose and Environmental Services, Colombia
- Verification of La Venta II, México
- Verification of two crediting periods of Fertinal Nitrous Oxide Abatement Project, México
- Verification of Co-composting of EFB and POME project, Guatemala
- Verification of Biogas Project, Olmeca III, Tecun Uman, Guatemala
- Verification of Jepirachi Wind Power Project, Colombia
- Verification of Biogas energy plant from palm oil mill effluent, Guatemala
- Verification of Santa Ana Hydroelectric Project, Colombia
- Validation of SHP Morro Azul CDM Project (JUN1164), Colombia
- Verification of Biogas Project, Olmeca III, Tecun Uman, Guatemala
- Verification VCS Montañas Hydroelectric Project
- Renewal of crediting period of the Amayo 40 MW Wind Power Project – Nicaragua
- Renewal of crediting period of the Monte Rosa Bagasse Cogeneration Project
- Validation GS Cururos Wind Farm Project
- Verification DOÑA JUANA LANDFILL GAS-TO-ENERGY PROJECT
- Verification La Venta II
- Verification Amaime Minor Hydroelectric Power Plant (2600)
- Verification “Cucuana Hydroelectric Power Plant”
- Validation Agua Fresca Multipurpose and environmental services project
- Verification Sogamoso Hydroelectric Project
- Validation Dos Mares Hydroelectric Project

Specialist Technical Reviewer

- Validation of Biogas project, Olmeca I, Santa Rosa, Guatemala
- Validation of CGR Catanduva Landfill Gas Project, Brazil
- Validation of Macaubas Landfill Gas Project, Brazil
- Verification Doña Juana landfill gas-to-energy project

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
/1/	Inversiones Eólicas de Orosí Dos, S.A. (IEDO)	PDD Orosí wind power project registered PDD Orosí wind power project with track changes and clean PDD Orosí wind power project with track changes and clean	Version 4, dated on 15/09/2014 Version 5, dated on 11/11/2020 Version 5, dated on 25/01/2021	Other PP
/2/	Inversiones Eólicas de Orosí Dos, S.A. (IEDO)	Monitoring report for third monitoring period (01/01/2017 to 31/12/2019)	Version 1.0, dated on 04/12/2020 Version 2.0, dated on 27/01/2021 Version 3.0, dated on 09/02/2021	PP
/3/	Inversiones Eólicas de Orosí Dos, S.A. (IEDO)	Spreadsheet emission reduction calculation file CDM_MR_OROSI.xlsx	Version N.1, dated 13/11/2020	PP
/4/	TÜV NORD CERT GmbH	Validation Report issued by TÜV NORD CERT GmbH.	Report N°: 8621 – 12/028, dated on 10/10/2012	Other
/5/	ICONTEC	Verification and certification report Orosí Wind power project, second monitoring period (07/09/2015 to 31/12/2016)	Version 3.0, dated 30/08/2017	Other
/6/	Inversiones Eólicas de Orosí Dos, S.A. (IEDO)	Previous monitoring report Orosí wind power project. Second monitoring period (07/09/2015 to 31/12/2016).	Version 1.0, dated 06/04/2017	Other
/7/	Inversiones Eólicas de Orosí Dos, S.A. (IEDO)	Power purchase contract No. 2013000037 signed between Instituto Costarricense de Electricidad – ICE (On English Costa Rican Electricity Institute – ICE) and Inversiones Eólicas de Orosí Dos, S.A. (IEDO) File: OROSI – PPA-ICE CONTRATO NO.2013000037 – CON...003636-PROV.pdf	August 1 st , 2013	PP
/8/	Inversiones Eólicas de Orosí Dos, S.A. (IEDO)	Addendum No.4 contract No. 2013000037 signed between Instituto Costarricense de Electricidad – ICE (On English Costa Rican Electricity Institute – ICE) and Inversiones Eólicas de Orosí Dos, S.A. (IEDO) File: 4.1.7.5 PPA – ICE – ADDENDA NO.4 – 30SET15 (1).pdf	September 30 th , 2015	PP
/UN1/	UNFCCC	Consolidated baseline methodology for grid-connected electricity generation from renewable sources ACM0002.	Version 12.3.0	Other
/UN2/	UNFCCC	Tool to calculate the emission factor for an electricity system.	Version 07.0	Other

/UN3/	UNFCCC	CDM validation and verification standard for project activities.	Version 02.0	Other
/UN4/	UNFCCC	CDM project standard for project activities.	Version 02.0	Other
/UN5/	UNFCCC	CDM project cycle procedure for project activities.	Version 02.0	Other
/UN6/	UNFCCC	CDM-PDD-FORM Project design document form	Version 11.0	Other

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

Table 1. CLs from this validation

CL ID	01	Section no.	D.1.	Date:	18/12/2020
Description of CL					
<ul style="list-style-type: none"> - On section A.1. of the PDD revised was included this information: ...558,509 tonnes of carbon dioxide during the crediting period, however there are not support for this calculation. - Clarify if the appendix 5 is or not applicable, according to instructions for completing the form CDM-PDD version 11.0. 					
Project participant response					Date: 14/01/2021
<ul style="list-style-type: none"> - <i>The support is in Section B.6.4, this information corresponds to the Total emission reductions for the total crediting period (7 years), it was just added in section A.1 as per the guidelines</i> - <i>The appendix 5 was updated.</i> 					
Documentation provided by project participant					
PDD revised version 5.					
DOE assessment					Date: 26/01/2021
The new version of PDD revised comply with the form CDM-PDD version 11.0. The finding is closed.					

CL ID	02	Section no.	D.6.	Date:	18/12/2020
Description of CL					
<ul style="list-style-type: none"> - On section B.7.1 Data and parameters to be monitored of the PDD revised, on parameter $EG_{facility,y}$, clarify of which meter main the data will be read primarily. - Also, It should be clarified how M_o, M_{OT} parameters apply to each period y. - QA/QC procedures for Data/Parameters M_o, M_{OT}: In the statement "Data can be cross-checked with the receipts of sales" it should be explained, in which cases Data are to be cross checked with receipts of sales, and in which cases they are not. <p>Besides that, it should be clarified how the transmission losses are taken into account when cross checking the variables M_o and M_{OT}</p>					
Project participant response					Date: 14/01/2021

<ul style="list-style-type: none"> - On section B.7.1 the main meter corresponded to each set of meters. - The Mo and Mot apply to period y so it was stated in each of the tables. Letter "y" was added. - QA/QC it can be done in all cases. "can" was changed by "will" - The Cross check is made with the meters located at Las Pailas, which is the metering point where ICE also obtains the generation data used for billing purposes.
Documentation provided by project participant
<i>PDD revised version 5.</i>
DOE assessment
Date: 26/01/2021
The information was clarified on the section B.7.1 of PDD revised version 5. The finding is closed.

CL ID	03	Section no.	D.6.	Date: 18/12/2020
Description of CL				
Section B.7.3 Other elements of monitoring plan Regarding the definition: <ul style="list-style-type: none"> - M_o = Quantity of gross electricity generation that is produced by each plant in year y and is measured at the Orosi Substation (MWh/yr). It is necessary to clarify, which plants are referred to in the expression " each plant in year y "				
Project participant response				Date: 14/01/2021
<ul style="list-style-type: none"> • <i>It was a mistake and was corrected; it is supposed to be as explained in section B.7.1., M_o = Quantity of gross electricity generation that is produced by the project/plant in year y and is measured at the Orosi Substation (MWh/yr).</i> 				
Documentation provided by project participant				
<i>PDD revised version 5.</i>				
DOE assessment				Date: 26/01/2021
The information was clarified on the section B.7.3 of PDD revised version 5. The finding is closed.				

CL ID	04	Section no.	D.3.	Date: 14/01/2021
Description of CL				
On the PDD reviewed section B.6.2. Data and parameters fixed ex ante, the parameter EF_{grid} is not found. <i>VVS paragraph 288</i>				
Project participant response				Date: 18/01/2021
<i>The parameter EF_{grid} was added in section B.6.2 of the PDD, as it is the EF calculated ex-ante as stated in Section B.6.3 of the PDD.</i>				
Documentation provided by project participant				

<i>PDD revised version 5</i>	
DOE assessment	Date: 26/01/2021
ICONTEC confirm the inclusion of EF on section B.6.2 of the PDD revised. The finding is closed.	

Table 2. CARs from this validation

CAR ID	01	Section no.	D.1.	Date: 18/12/2020
Description of CAR				
The table of section B.6.4 of revised PDD is wrong copy of the PDD registered, on the column of project emissions were reported the baseline emissions and the information of the year is different also.				
Project participant response				Date: 14/01/2021
<i>The table was corrected as per PDD version 4, no changes were made from the last registered PDD.</i>				
Documentation provided by project participant				
<i>PDD revised version 5</i>				
DOE assessment				Date: 26/01/2021
ICONTEC confirm the correct copy of the table B.6.4 of the PDD version 4 on the PDD revised, version 5. The finding is closed.				

Table 3. FARs from this validation

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

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	31 May 2019	Revision to: <ul style="list-style-type: none">• Ensure consistency with version 02.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN);• Make editorial improvements.
02.0	31 October 2017	Revision to align with the requirements in the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Registration Keywords: post-registration change, project activities, validation report		