

PoA CDM VALIDATION REPORT

Energía Limpia S.A.C.

**VALIDATION OF THE PROGRAMME OF
ACTIVITIES:**

Inti Renewable Energy Program of Activities

AENOR REFERENCE: 2011/102/CDM/77

VERSION: 03

VALIDATION REPORT

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Validation Report:	AENOR Reference No.:		Version of this report:		Date:	
	2011/102/CDM/77		03		2012/06/27	
PoA-DD:	Title:		GSC publication date:		Comments received:	
	Inti Renewable Energy Program of Activities		2011/12/22		<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	
Parties involved:	Host Party:		Other involved Parties:			
	Peru		-			
Project Participant(s):	In host Party:		In other involved Parties:			
	Energía Limpia S.A.C.		-			
Size of the project activity:	<input type="checkbox"/> Small scale <input checked="" type="checkbox"/> Large scale					
Applied methodology/ies:	Title:		Code:		No. Version Scope:	
	Consolidated baseline methodology for grid-connected electricity generation from renewable sources		ACM0002		12.2.0 01	
Applied tools:	Title:		Version:			
	Tool to calculate the emission factor for an electricity system		02.2.1			
	Title:		Version:			
	Tool for the demonstration and assessment of additionality		06.0.0			
Emission reductions (ER):		GSC PoA-DD:		Final PoA-DD:		
<input checked="" type="checkbox"/> Annual average of the ER (tCO₂e) <input type="checkbox"/> Total ER (tCO₂e)		89,639 (CPA-DD)		89,998 (CPA-DD)		
Previous versions of this document:			Version:		Date:	
			1		2012/06/05	
			2		2012/06/19	
			3			
			4			
Report prepared by:		Climate Change Unit. AENOR				

* The comments are detailed in Section 4 of this Validation Report

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Abbreviations

AENOR	Spanish Association for Standardisation and Certification
ACM0002	Consolidated baseline methodology for grid-connected electricity generation from renewable sources version 12.2.0
BM	Build margin
CAR	Corrective action requested
CL	Clarification
CDM	Clean development mechanism
CDM CPA-DD	CDM Programme Activity Design Document
CDM PoA-DD	CDM Programme Of Activities Design Document
CER	Certified emission reductions
CME	Coordinating and Managing Entity
COES	Committee of Economic Operation of the System (national dispatch centre)
DECISION 3/CMP.1	Modalities and procedures for a clean development mechanism as defined in Article 12 of the Kyoto Protocol
DNA	Designated national authority
EB	Executive Board of the CDM of the Kyoto Protocol
EIA	Environmental impact assessment
ERCP	Emission reduction calculation procedure
GHG	Greenhouse gasses
FAR	Forward Action Request
GSC	Global stakeholder consultation process
NGO	Non-Governmental Organisation
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of approval
MP	Monitoring plan
MWh	Mega watt hour

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MINEM	Ministry of Energy and Mines
MINAM	Ministry of Environment
OM	Operating margin
ODA	Official development aid
PP	Project Participant
SEIN	Peruvian National Interconnected Electric System
tC	Carbon tonne
UNFCCC	United Nations Framework Convention on Climate Change
VVM	Validation and Verification Manual

Table 1: Abbreviations

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1 INTRODUCTION

This validation concerns a CDM Programme of Activities (hereinafter PoA) implemented by Energía Limpia S.A.C. in Peru, to reduce emissions of CO₂ by means of the development of hydropower plants, that either meets the suppressed energy demand and alleviates energy poverty and /or replaces non-renewable energy (typically energy generated from fossil fuels).

The scope of the validation covers the additionality assessment, specific PoA requirements, environmental approval and the stakeholder consultation. In addition it covers the baseline methodology, the calculation of the emission factor and the monitoring methodology to quantify the emissions reductions during the lifetime of the PoA.

The PoA implies that each CDM Programme Activities (CPA) represent one or more small hydropower plants built in Peru with an installed capacity of up to 20 MW connected to the Peruvian national grid.

1.1 Objective

Energía Limpia S.A.C. has commissioned AENOR to validate this PoA. The objective of the validation process is to have an independent, third party assessment of the proposed Programme of Activities (PoA) and the CDM Programme Activity (CPA) template with generic information applicable to all CPAs under that PoA and the associated Vilcanota II Hydropower plant CPA-DD against the applicable CDM requirements. In particular, the project's baseline, the Monitoring Plan (MP), and the project's compliance with relevant UNFCCC and host country issues and criteria are validated in order to confirm that the project design as documented is sound and reasonable and meets the stated requirements and identified criteria.

Validation is a requirement for all CDM projects and is considered essential in providing quality assurance for the project.

UNFCCC criteria refer to the Kyoto Protocol criteria and the CDM rules and modalities as agreed to in the Bonn Agreement and the Marrakech Accords.

1.2 Scope

The scope of the validation is to assess all aspects of GHG reduction involved in the project, including the project design, the baseline, the methane emissions, the determination of the emission factor of the grid to calculate the project emissions, and the procedures proposed for monitoring the emission reductions in the future.

The following documents were reviewed as part of the scope of the activity:

- CDM PoA-DD /1/ /2/, including baseline study and Monitoring Plan.
- Vilcanota II Hydropower Plant - IntiPoA CPA# 1 CPA-DD /3/
- CDM generic-CPA-DD /4/

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- Approved Methodology: ACM0002 version 12.2.0 /6/
- Tool for the calculation of the emission factor for an electricity system, version 02.2.1 /7/
- Decision 3/CMP.1 and relevant decisions and guidelines from the EB.
- Standard for Demonstration of Additionality, Development of Eligibility Criteria and Application of Multiple methodologies for Programme of Activities, version 01.0 /10/
- Procedures for Registration of a Programme of Activities as a single CDM project activity and issuance of Certified Emission Reductions for a Programme of Activities, version 04.1 /12/
- Tool for the demonstration and assessment of additionality, version 06.0.0 /13/
- CDM Validation and Verification Manual version 01.2 /14/.
- Letter of Approval from the DNA of Peru /15/
- Associated documentation (environmental requirements, investment analysis, etc)

The validation scope is defined as an independent and objective review of the PoA-DD, Vilcanota II Hydropower Plant CPA-DD and generic CPA-DD, the project's baseline study, Monitoring Plan and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations. AENOR, based on the Specific Instruction for the Processing and Conducting of Validation, Registration, Verification and Certification of Kyoto Protocol CDM Project Activities (IE-DTC-039) /17/, has used a risk-based approach in the validation, focusing on the identification of significant risks for project implementation and the generation of CERs.

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

2 METHODOLOGY

The project assessment aims to be a risk-based approach and is based on the methodology developed in the Validation and Verification Manual, an initiative of designated and applicant entities, which aims to harmonise the approach and quality of all such assessments.

The validation of the programme began in December 2011 and was concluded in June 2012. The validation was performed in the manner of an audit, where first a desk review of the PoA-DD, Vilcanota II Hydropower Plant CPA-DD and generic CPA-DD was undertaken against the approved methodology and CDM and other relevant criteria. The desk review was followed by a site visit to Vilcanota II Hydropower Plant project site and key stakeholders in Peru.

In order to ensure transparency, two validation protocols were customized for the PoA and the CPAs, according to Specific Instruction IE-DTC-039. The protocols show, in a transparent manner, criteria (requirements), means of verification and the results from validating the identified criteria. The validation protocol serves the following purposes:

- It organises, provides details and clarifies the requirements a PoA is expected to meet; and
- It ensures a transparent validation process during which the validator will document how a particular requirement has been validated and the result of the validation.

The validation protocol consists of one table. The completed validation protocol is enclosed in Annex 1 to this report.

The sequence of the validation is given in the table below:

Topic	Date
Submission of PoA-DD for global stakeholder consultation process	2011/12/22
On-site visit	2012/02/04-05, 07
Validation Protocol - version 01.	2012/02/07
Validation Report	2012/06/27

Table 2: Sequence of the main validation activities

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2.1 Appointment of team members and technical reviewers

The list of involved personnel and the qualification status are summarised in the table below:

Name	Qualification	
	Position in the team	Technical areas
Jose Antonio Gesto Vilacoba	Chief Validator and Technical Expert	TA 1.2
Freddy Garro Flores	Validator	TA 1.2
Rafael Millán García	Trainee Validator	
Jose Luis Fuentes	Technical Reviewer	TA 1.2
Alfonso Medrano	Technical Reviewer	TA 1.2

Table 3: List of the personnel involved

Technical areas (TA) mentioned above correspond to the following:

TA code	Technical area
TA 1.1	Thermal energy generation from fossil fuels and biomass including thermal electricity from solar (COMPLEX)
TA 1.2	Energy generation from renewable energy sources
TA 2.1	Electricity distribution
TA 2.2	Heat distribution
TA 3.1	Energy demand
TA 4. 1	Cement sector (COMPLEX)
TA 4.2	Aluminium (COMPLEX)
TA 4.3	Iron and steel (COMPLEX)
TA 4.4	Refinery (COMPLEX)
TA 5.1	Chemical process industries (COMPLEX)
TA 6.1	Construction
TA 7.1	Transport
TA 8.1	Mining and mineral processes, excluding those included in TA 8.2 below
TA 8.2	Oil and gas industry, coal mine methane recovery and use (COMPLEX)

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TA 9.1	Metal production
TA 10.1	Mining and mineral processes, excluding those included in TA 10.2 below
TA 10.2	Oil and gas industry, coal mine methane recovery and use (COMPLEX)
TA 11.1	Chemical process industries (COMPLEX)
TA 11.2	GHG capture and destruction
TA 12.1	Chemical process industries (COMPLEX)
TA 13.1	Waste handling and disposal
TA 13.2	Animal waste management
TA 14.1	Forestry
TA 15.1	Agriculture
TA 15.2	Animal waste management

Table 4: List of technical areas

2.2 Document review

The PoA-DD, Vilcanota II Hydropower Plant CPA-DD and generic CPA-DD submitted by the PPs were reviewed against the approved methodology and against CDM and other relevant criteria. Additional background documents related to the project design, baseline and financial analysis were also made available before and during the on-site visit in Peru. These additional background documents were also reviewed.

To address the corrective actions and clarification requests that arose from the desk review and on-site visit, the PPs revised the initial project design documents submitted and developed the final PoA-DD and CPA-DD.

The reviewed documents used during the validation process are listed in section 8 of this report.

2.3 Follow-up actions

The AENOR validation team composed of Freddy Garro and Rafael Millán conducted interviews with project developers and main stakeholders in Peru to confirm selected information and to resolve issues identified in the document review.

On 04-05, 07/02/2012, AENOR's validation team performed interviews and physical site inspections with project stakeholders to confirm relevant information, and to resolve issues identified in the document review. During the visit, representatives from Peruvian project participants, in addition to relevant local stakeholders such as local authorities and local inhabitants, affected by the PoA were interviewed. Also, the AENOR team visited the Peruvian DNA representative (Ministry of Environment).

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Interviewed organisation Person/Position	Interview topics
ENERGÍA LIMPIA S.A.C. Richard Marohn, General Manager Florian Nagel, Manager Tina Ong, Manager ENDESA CARBONO S.L. Lorenzo Eguren, CDM Consultant RENEWABLE ENERGY PERU S.A.C. Richard Marohn, General Manager Florentino Champi, Community Relations	<ul style="list-style-type: none"> ✓ Programme design. ✓ System management. ✓ Additionality assessment (investment and barrier analysis). ✓ Ex-ante baseline determination: OM & BM (power plants, electricity production, start of operation, fuels, efficiencies, most recent data...). ✓ EIA approval and related conditions. ✓ Permits and authorisations applicable to the Programme. ✓ Monitoring of environmental impacts. ✓ Stakeholder consultation process.
MUNICIPALITY OF SANTA TERESA Giovanny Cáceres, Electrification Area COMMUNITY OF QUELLOMAYO Valerio Durán Tito, Deputy COMMUNITY OF SANTA ROSA Benedicto Bocausal, Deputy	<ul style="list-style-type: none"> ✓ Opinion about the programme. ✓ Knowledge of the environmental impacts. ✓ Benefits for the community. ✓ Land owners' current socioeconomic situation. ✓ Consultation with municipality's authorities, land owners and other stakeholders.

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Interviewed organisation Person/Position	Interview topics
MINISTRY OF ENVIRONMENT (DNA) Regina Ortega, CDM and Carbon Specialist	<ul style="list-style-type: none"> ✓ Programme's sustainable development contribution. ✓ Compliance with environmental law. ✓ Permits and authorisations applicable to the Programme. ✓ DNA's opinion. ✓ PoA compliance with local policies and legislation.

Table 5: Interview topics

2.4 Findings

As an outcome of the validation process, the team can raise different types of findings according to the CDM Validation and Verification Manual.

A Clarification Request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable CDM requirements have been met.

Where a non-conformance arises, the validation team shall raise a Corrective Action Request (CAR). A CAR is issued, where:

- a) The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable additional emission reductions;
- b) The CDM requirements have not been met;
- c) There is a risk that emission reductions cannot be monitored or calculated.

Failure to address a CL may result in a CAR. Information or clarifications provided as a result of a CL may also lead to a CAR.

A Forward Action Request (FAR) is raised during validation to highlight issues related to project implementation that require review during the first verification of the project activity. FARs shall not relate to the CDM requirements for registration.

The project participants were requested to address all validation findings and finally provided the validation team with sufficient evidence to determine that the applicable CDM requirements have been met. The project participant modified the initial PoA-DD to resolve the validation team concerns and resubmitted a final version of the PoA-PDD. AENOR has prepared this report based on the final PoA-DD.

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All the validation findings are documented in detail in section 7 and in the validation protocol included in Annex 1.

2.5 Internal Quality Control

Following the completion of the assessment process by the validation team, all documentation undergoes an internal quality control through a technical review before submission to the CDM-EB. The Technical reviewer is a qualified member of AENOR, independent from the team that carried out the validation of the project activity. The technical reviewer or the team appointed for the technical review are qualified in the technical area(s) and sectoral scope(s) of the PoA.

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3 VALIDATION FINDINGS**3.1 Approval**

The project participant for Inti Renewable Energy Program of Activities is Energía Limpia S.A.C. from Peru the host country.

The Letter of Approval from the Peruvian DNA has been provided to the validation team directly by the project participant. The LoA was issued on 29 February 2012 (No. 61-2012) by the Ministry of Environment (MINAM). AENOR confirms that the LoA states the following:

- Peru has confirmed that it is Party to the Kyoto Protocol (12 September 2002).
- Peru has confirmed its voluntary participation, the programme's contribution to sustainable development through national approval of the programme and the voluntary participation of Energía Limpia S.A.C.
- The LoA refers to the precise proposed CDM Programme of Activities title in the PoA-DD being submitted for registration.

The validation did not reveal any information that indicates that the project can be seen as a diversion of ODA funding towards Peru.

The LoA does not refer to a specific version of the PoA-DD or validation report. The corresponding references included in the LoA, PoA-DD and validation report are consistent.

AENOR ensures that the LoA has been issued by the respective Party designated national authorities and does not doubt the authenticity of the letter of approval received from the PP. Hence, AENOR confirms that the LoA is in compliance with paragraphs 45-48 of the VVM v.1.2. In addition, the validation team of AENOR confirmed with the Peruvian DNA the award of the LoA for the proposed PoA.

3.2 Participation

As stated above, the project participant for the PoA is Energía Limpia S.A.C. from Peru the host country.

The PoA CME (Coordinating and Managing Entity) is Energía Limpia S.A.C., which is authorised as the Peruvian's Project Participant and authorised by the host Party Peruvian DNA as the Coordinating and Managing Entity.

All project participants have been listed in section A.3 of the final PoA-DD. Information regarding project participant is confirmed as consistent in the latest PoA-DD and Vilcanota II Hydropower Plant CPA-DD.

AENOR's validation team states that the participation of the project participant from Peru has been approved by a Party to the Kyoto Protocol.

3.3 Programme Design Document

Due to the clarifications and corrective actions requested during the validation process, the project participants made a final version of the PoA-DD and the Generic CPA-DD, which include corrections or clarifications to all issues raised.

The final PoA-DD and the Generic CPA-DD are in compliance with relevant form and guidance as provided by UNFCCC. The most recent version of the forms under VVM Track is used.

AENOR considers that the guidelines for the completion of the PoA documents in their most recent version have been followed. Relevant information was provided by the Managing entity and/or project participants in the applicable PoA sections. Completeness was assessed through the protocol included in Annex 1.

3.4 Programme description

The following description of the project as per PoA-DD, generic CPA-DD and Vilcanota II hydropower plant CPA-DD could be verified during the on-site visit:

The "Inti Renewable Energy Program of Activities" will consist of CDM Programme Activities (CPA) that each represents one or more small hydropower plants built in Peru with an installed capacity of up to 20MW connected to the Peruvian national grid. The PoA is a voluntary action being coordinated and managed by Energía Limpia S.A.C.

The PoA aims to encourage the wide-scale adoption of small hydropower plants, grid-connected renewable energy projects and to support governmental initiatives to diversify the electricity sector by looking for the sustainable development of the country in a context that renewable energy is losing participation in the national grid.

The goal of the PoA is to strengthen Peru's renewable energy promotion policies by providing a platform that facilitates the transition to a low-carbon economy through generation of additional financial support for renewable energy via international carbon markets. Also, the goal of the PoA is to develop a platform for supporting the development of small hydropower projects with an installed capacity of up to 20MW in Peru.

The starting date of the proposed PoA is properly defined as 19 October 2011 and it is justified in section 3.6.1 of this report. The length of PoA is defined as 28 years.

The information presented in the PoA documents on the technical design is consistent with the actual planning and implementation of the project activity confirmed in the following ways:

- A review of the PoA Conceptual document /18/ and other data and information (see section 8).
- An on-site visit to the place where the associated real case CPA is being implemented and interview with relevant stakeholder and personnel with knowledge of the project in attendance.
- A review of information related to similar projects or technologies which have been used to validate the accuracy and completeness of the project description.

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In conclusion, AENOR confirms that the PoA description, as included in the PoA-DD, sufficiently covers all relevant elements, provides the reader with a clear understanding of the nature of the PoA, is accurate and complete in order to comply with the requirements of the CDM and therefore in compliance with VVM paragraphs 58-64.

3.5 Baseline methodology

The final PoA-DD describes the baseline methodology, which is in conformance with the approved baseline methodology ACM0002 version 12.2.0 entitled "Consolidated baseline methodology for grid-connected electricity generation from renewable sources".

The final PoA-DD applies to a valid tool for the calculation of the grid emission factor, "Tool to calculate the emission factor for an electricity system" version 02.2.1.

The PoA applies to a valid version of a CDM Methodology approved by the EB. By means of cross-checking it can be confirmed that the applied methodology is directly derived from the methodologies section on the CDM <http://cdm.unfccc.int/index.html>. The methodology is applicable because CPAs under the PoA involve a hydroelectric power plant (either with a run-of-river reservoir or an accumulation reservoir) that supplies electricity to the national grid. The project activity is a new power plant at a site where there was no renewable energy power plant operating prior to the implementation of the project activity. Therefore, the PoA meets all applicability conditions of the applied methodology and all methodology components referred to in the applied methodology. Beyond this, the proposed PoA meets all the other possible requirements or stipulations mentioned in all sections of the selected methodology.

In order to calculate the baseline emission factor for each CPA, the Peruvian National Interconnected Electric System is also included in the boundary of the project.

The grid's data source is COES (Comité de Operación Económica del Sistema), the official dispatch centre of Peru.

The baseline emission factor ($EF_{grid,CM,y}$) for each CPA is determined with the ex post option according to the six steps stated in the "Tool to calculate the emission factor of an electricity system" version 02.2.1. The operating margin (OM) and the build margin (BM) is calculated and combined to obtain the baseline emission factor.

Moreover, a model calculation spreadsheet [19] along with the Annual Statistics of Operations from COES [20] has been provided to the AENOR validation team. Thus AENOR has validated that data and assumptions considered in the PoA-DD and model spreadsheet calculations are consistent with official data.

The following sources of data were taken into account:

- "Annual Operations Statistics 2010", COES.
- COES technical procedure numbers 17 and 20. [21]

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AENOR confirms that the baseline and monitoring methodologies selected by the project participants comply with the methodologies previously approved by the CDM Executive Board, that the selected methodology is applicable to the project and that the PP has correctly applied the selected methodology.

3.5.1 Applicability of the selected methodology to the Programme of Activities

The selected baseline and monitoring methodology used for the Programme of Activities "Inti Renewable Energy Program of Activities" is ACM0002 version 12.2.0, which is still applicable, requests for registration can be submitted until 02 November 2012, and was previously approved by the CDM Executive Board.

The applicability of the selected methodology to the proposed CDM project activity has been assessed in the following way:

1. *This methodology is applicable to grid-connected renewable power generation project activities that (a) install a new power plant at a site where no renewable power plant was operated prior to the implementation of the project activity (Greenfield plant); (b) involve a capacity addition; (c) involve a retrofit of (an) existing plant(s); or (d) involve a replacement of (an) existing plant(s).*

Each CPA under this PoA will consist of a grid-connected renewable power generation project activities that (a) install a new power plant at a site where no renewable power plant was operated prior to the implementation of the project activity (Greenfield plant) particularly hydropower plants(s).

2. *The project activity is the installation, capacity addition, retrofit or replacement of a power plant/unit of one of the following types: hydro power plant/unit (either with a run-of-river reservoir or an accumulation reservoir), wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit;*

Each CPA under this PoA will consist of (a) new hydropower plant/unit(s) (either with a run-of-river reservoir or an accumulation reservoir).

3. *In the case of capacity additions, retrofits or replacements (except for wind, solar, wave or tidal power capacity addition projects which use Option 2: on page 10 to calculate the parameter $EG_{P,y}$): the existing plant 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 or retrofit of the plant has been undertaken between the start of this minimum historical reference period and the implementation of the project activity;*

Not applicable. Each CPA under this PoA will not involve capacity additions, retrofits or replacements.

4. *In case of hydro power plants, one of the following conditions must apply:*

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- a. *The project activity is implemented in an existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or*
- b. *The project activity is implemented in an existing single or multiple reservoirs, where the volume of any of reservoirs is increased and the power density of each reservoir, as per the definitions given in the Project Emissions section, is greater than 4 W/m^2 ; or*
- c. *The project activity results in new single or multiple reservoirs and the power density of each reservoir, as per the definitions given in the Project Emissions section, is greater than 4 W/m^2 .*

For each CPA under this PoA one of the following conditions will apply: (a) The project activity is implemented in single or multiple reservoirs, with no change in the volume of the reservoirs; or (b) The project activity is implemented in an existing single or multiple reservoirs, where the total volume of the reservoirs is increased and the power density of the project activity, as per definitions given in the Project Emissions section, is greater than 10 W/m^2 ; or (c) The project activity results in new reservoirs and the power density of the power plant, as per definitions given in the Project Emissions section, is greater than 10 W/m^2 .

5. *In case of hydro power plants using multiple reservoirs where the power density of any of the reservoirs is lower than 4 W/m^2 , all the following conditions must apply:*
 - a. *The power density calculated for the entire project activity using equation 5 is greater than 4 W/m^2 ;*
 - b. *Multiple reservoirs and hydro power plants located at the same river and where are designed together to function as an integrated project¹ that collectively constitute the generation capacity of the combined power plant;*
 - c. *Water flow between multiple reservoirs is not used by any other hydropower unit which is not a part of the project activity;*
 - d. *Total installed capacity of the power units, which are driven using water from the reservoirs with power density lower than 4 W/m^2 , is lower than 15 MW ;*
 - e. *Total installed capacity of the power units, which are driven using water from reservoirs with power density lower than 4 W/m^2 , is less than 10% of the total installed capacity of the project activity from multiple reservoirs.*

Not applicable. For each CPA under this PoA using multiple reservoirs, the power density of any of the reservoir will be greater than 10 W/m^2 .

6. *The methodology is not applicable to the following:*
 - 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;*

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- b. *Biomass fired power plants;*
- c. *A hydro power plant that results in the creation of a new single reservoir or in the increase in an existing single reservoir where the power density of the power plant is less than 4 W/m².*

Not applicable. The proposed PoA does not involve switching from fossil fuels to renewable energy sources at the site of the project activity. The proposed PoA is not related to biomass fired power plants. The power density of each CPA to be included in PoA has a power density greater than 10 W/m².

- 7. *In the case of retrofits, 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", i.e. 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. The proposed PoA does not involve retrofits, replacements, or capacity additions.

AENOR confirms the applicability of the selected methodology to the Programme of Activities. The final version of the PoA-DD adequately describes the different applicability conditions of the methodology and no deviation from the methodology has been necessary.

The Programme of Activities is not expected to result in emissions other than those allowed by the methodology, and there are no greenhouse gas emissions occurring within the proposed CDM project activity boundary as a result of the implementation of the proposed CDM project activity which are expected to contribute more than 1% of the overall expected average annual emissions reductions, which are not addressed by the applied methodology.

3.5.2 Programme boundary

The boundaries (geographically and related to GHG sources/sinks) are correctly given in section A.4.1.2 of the final PoA-DD. The geographical boundary of this PoA is the geographical area of Peru.

As per ACM0002 version 12.2.0, the boundary of the CPA of this PoA is "The spatial extent of the CPA boundary includes the CPA power plant and all power plants connected physically to the Peruvian National Grid (SEIN) which the CDM-CPA power plant is connected to". The information has also been correctly given in section A.4.1.2 of the real case CPA-DD.

The physical delineation of the CPA under the PoA and the description of the emission sources and GHGs that are included in the CPA boundary are appropriate for the purpose of calculating project and baseline emissions for each CPA.

In addition, all emission sources and GHGs related included and excluded from the project boundary are clearly identified and described in a complete manner in the final version of the PoA-DD.

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The validation team states that the identified boundary and the selected sources and gases are correctly justified by the project proponent in the PoA-DD, and they are in accordance with the methodology ACM0002 version 12.2.0.

3.5.3 Baseline identification

The final version of the PoA-DD describes the baseline methodology, which is in conformance with the approved methodology ACM0002, version 12.2.0 for grid-connected electricity generation from renewable sources.

Since the project activity in each CPA under this PoA involves the installation of a new grid-connected renewable power plant/unit, the baseline scenario is the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the “Tool to calculate the emission factor for an electricity system” version 02.2.1.

The data used in the identification of the baseline scenario are appropriately justified, supported by evidence and can be deemed reasonable. In addition, relevant national and/or sectoral policies and circumstances are indicated in the final version of the PoA-DD.

The approved methodology that is selected by the proposed CDM Programme of Activities prescribes the baseline scenarios and no further analysis is required, thus it is not necessary to identify credible alternatives to the project activity in order to determine the most realistic baseline scenario. (VVM 1.2, paragraph 105). Therefore, the baseline determination is considered as transparent and reasonable.

3.5.4 Algorithms and/or formulae used to determine emission reductions

The methodology for calculating emission reductions is transparently documented and complies with existing good practice.

According to the baseline ACM0002 methodology, version 12.2.0, and the “Tool to calculate the emission factor for an electricity system” version 02.2.1, the emission reductions are calculated as following:

$$ER_y = BE_y - PE_y$$

Where:

- ER_y = Emission reductions in year y (t CO₂e/yr)
- BE_y = Baseline emissions in year y (t CO₂e/yr)
- PE_y = Project emissions in year y (t CO₂e/yr)

Baseline emissions

According to ACM0002 (version 12.2.0), the baseline emissions are to be calculated as follows:

$$BE_y = EG_{PJ,y} \cdot EF_{grid,CM,y}$$

Where:

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BE_y	=	Baseline emissions in year y (tCO_2/yr)
$EG_{P,y}$	=	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 CO_2 emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO_2/MWh)

Calculation of $EG_{P,y}$

As the project activity is the installation of a new grid-connected renewable power plant/unit at a site where no renewable power plant was operated prior to the implementation of the project activity, then:

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

Where:

$EG_{P,y}$	=	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)

The Baseline emission factor is calculated as a combined margin ($EF_{grid,CM,y}$), following the guidance in the "Tool to calculate the emission factor for an electricity system" version 02.2.1. According to the tool, the baseline emission factor is calculated as the weighted average of the operating margin emission factor ($EF_{grid,OM,y}$) and the build margin emission factor ($EF_{grid,BM,y}$) where the weights w_{OM} and w_{BM} , by default, are 50% (i.e., $w_{OM} = w_{BM} = 0.5$). This is presented below:

Step 1.- Identify the relevant electricity systems

The spatial extent of the CPA boundary includes the CPA power plant and all power plants connected physically to the Peruvian National Interconnected System (SEIN) which the CDM-CPA power plant is connected to. This has been checked against the dispatch centre (COES) website.

For the purpose of determining the OM emission factor, electricity imports have been considered in the calculation. Taking into account the "Tool to calculate the emission factor for an electricity system", the emission factor is considered 0 tCO_2/MWh for imports from connected electricity systems in other host countries. Moreover, electricity exports from other grids are not subtracted from electricity generation data in baseline calculation.

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

Option I – only grid power plants are included in the calculation of the operating and build margin emission factor.

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

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For the calculation of the OM emission factor, the dispatch data analysis OM emission factor calculation method is selected because data are available. The simple OM method has not been applied as low cost/must run constitute more than 50% of the total grid generation in Peru.

It has been validated that the option of dispatch data analysis OM and the ex-ante calculation based on the most recent data available at the time of submission of the PoA-DD to the DOE for validation (2010), requiring an annual monitoring of the $EF_{grid,OM-DD,y}$ has been selected for the PoA.

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

It has been validated that the dispatch analysis OM method is calculated based on the energy conversion efficiency of the grid power unit and the fuel type used, with the CO₂ emission factor for the grid power units calculated with option A2 of the applicable tool.

$EF_{grid,OM-DD,y}$ is calculated as follows:

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

Where,

$EF_{grid,OM-DD,y}$ = Dispatch data analysis operating margin CO₂ emission factor in year y (tCO₂/MWh)

$EG_{PJ,h}$ = Electricity displaced by the project activity in hour h of year y (MWh)

$EF_{EL,DD,h}$ = CO₂ emission factor for grid power units in the top of the dispatch order in hour h in year y (tCO₂/MWh)

$EG_{PJ,y}$ = Total electricity displaced by the project activity in year y (MWh)

h = Hours in year y in which the project activity is displacing grid electricity

y = Year in which the project activity is displacing grid electricity

Since hourly fuel consumption data are not available, the hourly emissions factor is determined based on the energy efficiency of the grid power unit and the fuel type used, as follows

$$EF_{EL,DD,h} = \frac{\sum_m EG_{m,h} \cdot EF_{EL,m,y}}{\sum_m EG_{m,h}}$$

Where:

$EF_{EL,DD,h}$ = CO₂ emission factor for grid power units in the top of the dispatch order in hour h in year y (tCO₂/MWh)

$EG_{n,h}$ = Net quantity of electricity generated and delivered to the grid by grid power unit n in hour h (MWh)

$EF_{EL,n,y}$ = CO₂ emission factor of grid power unit n in year y (tCO₂/MWh)

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n = Grid Power units in the top of the dispatch.
At each hour, h , stack each grid power unit's generation using the merit order. The group of power units n in the dispatch margin includes the units in the top $x\%$ of total electricity dispatched in the hour h , where $x\%$ is equal to the greater of either:

(a) 10%; or

(b) The quantity of electricity displaced by the project activity during hour h divided by the total electricity generation by the grid power plants during that hour h .

H = Hours in year y in which the project activity is displacing grid electricity

The $EF_{EL,n,y}$ is calculated as per the guidance for the simple OM, using the option A2.

$$EF_{EL,m,y} = \frac{EF_{CO_2,m,i,y} * 3.6}{n_{m,y}}$$

Where:

$EF_{EL,m,y}$ = CO₂ emission factor of power unit m in year y (tCO₂/MWh)

$EF_{CO_2,m,i,y}$ = Average CO₂ emission factor of fuel type i used in power unit m in year y (tCO₂/GJ)

$n_{m,y}$ = Average net energy conversion efficiency of power unit m in year y (%)

m = All power units serving the grid in year y except low-cost/must-run power
Units

y = applicable year during monitoring (*ex-post* option)

For ex-ante, in the CPA-DD, $EF_{grid,OM-DD,y}$ is calculated as **0.74954** tCO₂e/MWh for the year 2010.

Formulae have been reviewed and AENOR deems that they are in compliance with the methodology, the emission factor tool and relevant EB guidance. In addition, formulae and factors used to calculate the operating margin are properly described in the final version of the PoA-DD and they are considered correct and transparent.

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

Option 1 of the applicable tool has been chosen in terms of vintage of data, i.e. for the first crediting period, the BM emission factor is calculated ex-ante based on the most recent information available on units already built for sample group, m , at the time of PoA-DD submission to the DOE for validation, i.e., will remain fixed during the first crediting period.

Moreover, for the proposed project the sample group of power units m used to calculate build margin is defined as the set of power units that started to supply electricity to the grid most recently and that comprise 20% of the annual electricity generation of the project electricity system ($SET_{>20\%}$), instead of a set

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of five power units that started to supply electricity to the grid most recently ($SET_{5-units}$). This option comprises the larger annual generation of 6,846,380 MWh ($AEG_{SET>20\%}$).

$EF_{grid,BM,y}$ is calculated as **0.56921** tCO₂e/MWh in the final PoA-DD for year 2010. The formula used to obtain emissions data is:

Build margin = Net quantity of electricity generated and delivered to the grid (MWh) by power unit m * CO₂ emission factor (tCO₂/MWh) of power unit m / Net quantity of electricity generated and delivered to the grid (MWh) by power unit m

CO₂ emission factor of each power unit m is calculated using the tool's option A2, so as to be in compliance with the formula:

CO₂ emission factor = $3.6 * \text{CO}_2 \text{ emission factor of fossil fuel type (tCO}_2\text{/G)} / \text{Net energy conversion efficiency of power unit (\%)}$

Values of net energy conversion efficiency of power units have been taken from the COES Annual Operation Statistics 2010.

Calculations have been reproduced and AENOR deems that they are in compliance with the methodology, the tool to calculate the emission factor and data sources.

Step 6.– Calculate the combined margin (CM) emissions factor.

According to the "Tool to calculate the emission factor for an electricity system" the default weights: OM = 0.5 for operating margin and BM = 0.5 for build margin are adopted in the first crediting period of hydropower projects.

With reference to the "Tool to calculate the emission factor for an electricity system", the dispatch data analysis OM emission factor ($EF_{grid,OM,y}$) will be updated annually. Similarly, the build margin emission factor ($EF_{grid,BM,y}$) will remain fixed during the first crediting period of the PoA.

Therefore, the combined baseline emission factor will be updated annually as follows:

$$EF_{grid,CM,y} = EF_{grid,OM,y} \times 0.5 + EF_{grid,BM,y} \times 0.5 \text{ (tCO}_2\text{e/MWh)}$$

The calculation procedure of the emissions reduction is following detailed as stated in final PoA-DD and CPA-DD.

Calculation procedures have been reviewed and AENOR deems that they are in compliance with the methodology, the tool to calculate the emission factor and data sources.

The project participant has one model calculation spreadsheet including different worksheets designed to automate the process for the calculation of the emission factor for each CPA.

The description of the validation activities of each worksheet is detailed below:

The file named **"CPA spreadsheet for DDA-OM and BM calculation.xls"** includes eighteen worksheets:

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- **(WS-0) EFELs calculation:** includes the calculation of the CO₂ emission factor for each plant in the SEIN. The data source is COES and IPCC.
- **(WS-1) EFELs per technology:** assigns a CO₂ emission factor to each plant in the SEIN, according to WS-0, and contains the predefined order of hydropower plants.
- **(WS-2) MERIT ORDER:** assigns grid dispatch merit order for all thermal plants in the SEIN in accordance with data of COES official statistics.
- **(WS-3) DECEMBER to (WS-14) JANUARY:** contains the hourly generation of the power plants in the SEIN and includes the calculation procedure of OM emission factor.
- **(WS-15) Additions to the SEIN:** contains power plant additions that started to supply electricity most recently to the SEIN according to official data from COES.
- **(WS-16) BM:** includes the BM calculation fixed for the first crediting period of the PoA.
- **(WS-17) ERs:** contains the emission reductions procedure calculated in the monitoring period.

AENOR confirms that all assumptions and data used by the PPs are listed in the final PoA-DD, including their references and sources. Furthermore, all documentation used by the project participant as the basis for assumptions and source of data is correctly quoted and interpreted in the PoA-DD and all values used in the PoA-DD are considered reasonable in the context of the proposed CDM project that result in a conservative estimate of emission reductions.

Project emissions

According to ACM0002 (version 12.2.0), for hydro power project activities that result in new single or multiple reservoirs and hydro power project activities that result in the increase of single or multiple existing reservoirs, project proponents shall account for CH₄ and CO₂ emissions from the reservoirs, estimated as follows:

- (a) If the power density of the single or multiple reservoirs (PD) is greater than 4 W/m² and less than or equal to 10 W/m²:

$$PE_{HP,y} = \frac{EF_{Res} \cdot TEG_y}{1000}$$

Where:

- PE_{HP,y} = Project emissions from water reservoirs (tCO₂e/yr)
- EF_{Res} = Default emission factor for emissions from reservoirs of hydro power plants in year *y* (kgCO₂e/MWh)
- TEG_y = Total electricity produced by the project activity, including the electricity supplied to the grid and the electricity supplied to internal loads, in year *y* (MWh)

- (b) If the power density of the project activity (PD) is greater than 10 W/m²:

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$$PE_{HP,y} = 0$$

The power density of the project activity (PD) is calculated as follows:

$$PD = \frac{Cap_{PJ} - Cap_{BL}}{A_{PJ} - A_{BL}}$$

Where:

PD	= Power density of the project activity (W/m ²)
Cap_{PJ}	= Installed capacity of the hydro power plant after the implementation of the project activity (W)
Cap_{BL}	= Installed capacity of the hydro power plant before the implementation of the project activity (W). For new hydro power plants, this value is zero
A_{PJ}	= Area of the single or multiple reservoirs measured in the surface of the water, after the implementation of the project activity, when the reservoir is full (m ²)
A_{BL}	= Area of the single or multiple reservoirs measured in the surface of the water, before the implementation of the project activity, when the reservoir is full (m ²). For new reservoirs, this value is zero

Since as eligibility criteria of this PoA, all projects have a power density over 10 W/m²; therefore, project emission are considered Zero for this PoA.

AENOR confirms that the calculation procedure of the Project Emissions included in the final version of the PoA-DD is correct according to the applied methodology and all the formulae have been correctly described and used.

Emission Reductions

According to the baseline methodology ACM0002 version 12.2.0, the Emissions Reductions are calculated as follows:

$$ER_y = BE_y - PE_y$$

Where:

ER_y	= Emission reductions in year y (t CO ₂ e/yr)
BE_y	= Baseline emissions in year y (t CO ₂ e/yr)
PE_y	= Project emissions in year y (t CO ₂ e/yr)

Based on the above assessment, AENOR confirms that:

- All assumptions and data used by the project participants are listed in the PoA-DD and CPA-DD, including their references and sources;
- All documentation used by project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the PoA-DD and CPA-DD;

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- All values used in the PoA-DD and CPA-DD are considered reasonable in the context of the proposed CDM project activity;
- The baseline methodology has been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions;
- All estimates of the baseline emissions can be replicated using the data and parameter values provided in the PoA-DD and CPA-DD.

3.6 Additionality

3.6.1 Starting date of the Programme of Activities

According to the final PoA-DD the starting date of the PoA is 19 October 2011, the date of the contract signed between the coordinating entity and the CPA participant, which is deemed appropriate, thus accepted by the validation team of AENOR.

3.6.2 Additionality of the Programme of Activities

The additionality of the programme has been presented in section A.4.3 of the PoA-DD. The approach used in the PoA-DD has been assessed initially through the document review followed by on-site discussions. Finally, the data, rationales, assumptions, justifications, and documentation provided have been verified using local knowledge as well as sectoral and financial expertise.

The proposed PoA is a voluntary action by the Coordinating/Managing Entity – Energía Limpia S.A.C. based on the submitted documents and substantiation it is evident that this voluntary coordinated action would not be implemented in the absence of the PoA.

It has been clearly demonstrated that there is no mandatory policy or regulation in the host country enforcing the implementation of small hydropower based projects for electricity generation. This was confirmed based on the on-site interviews and the host country experience of the audit team.

In addition, the PoA-DD establishes in Sections A.4.2.2 (eligibility criteria) and E.5 the conditions that ensure that CPAs meet the requirements pertaining to the demonstration of the additionality. Additionality shall be demonstrated for each CPA under this PoA following the steps outlined in the last version of the "Tool for the demonstration and assessment of additionality" version 06.0.0 as directed by ACM0002: Consolidated baseline methodology for grid-connected electricity generation from renewable sources --- version 12.2.0:

Project activities proposed under CPAs that are eligible for inclusion in the Inti PoA will generate financial and economic benefits other than CER revenues, so the simple cost analysis (Option I) is not applicable. Moreover, since the only clear options from the PoA level is undertaking the CPA project without CDM (including a delayed implementation) and not implementing the project, benchmark analysis (Option III) will be used in assessing additionality of a CPA as instructed in ACM0002 version 12.2.0.

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3.6.3 Additionality of a typical CPA

The additionality of the PoA has been presented on a CPA level. The PoA-DD specifies clearly that in order to demonstrate additionality the CPA shall apply investment analysis according to the "Tool for the demonstration and assessment of additionality", option III benchmark analysis has been selected.

As per the "Tool for the demonstration and assessment of additionality", version 06.0.0, a relevant benchmark for a project's IRR can be derived from government/officially approved benchmark where such benchmarks are used for investment decisions.

In line with this, the benchmark IRR of 12% emerged in several studies as well as in official government decisions related to project investment evaluation in the electric sector:

- "Study for the electric supply BCR", issued by the Central Reserve Bank of Peru dated September 2008 regarding the evaluation of future power additions in 2008- 2012 to the electric sector, assumed on page 26 a discount rate of 12% for financial analysis of investment for power alternatives including hydropower [22].
- Decree No 015-2007 – Terms of reference for feasibility studies for rural electrification in Peru. This document mentions that for private evaluation the 12% discount rate should be used for rural electrification projects, which include electricity generation projects. Ministry of Economy and Finance [23].
- "OSINERG Study on Investments", a study made by OSINERG in November 2005 related to the dynamics in electricity generation investment in Peru. In this study, investments are evaluated with a discount rate of 12% and 18%. In the selection of the 12% discount rate, the study justifies that this rate has been established by the concession law [24].
- "Technical report 085-2005-EF/68.1" issued by the Ministry of Economy and Finance of Peru published on 27 May 2005, regarding the evaluation of a project in the electric sector. This report establishes that the discount rate is 12% for private sector evaluation [25].
- Decree Law 25844 (Electricity concessions law). This rate has been established by the Ministry of Energy and Mining (MINEM) for every energy-related project assessment. Article 79 [26].
- "Economic and technical feasibility of Hydropowers in Peru" - A study made by the World Bank in 2009 and a Peruvian Agency for the Promotion of Private Investment (Proinversion) which confirms the use of 12% as a benchmark for investment decisions in the sector [27].

This benchmark IRR has been widely accepted in newly constructed power plants in Peru, and has also been accepted as the benchmark for the following registered hydroelectric CDM projects, "Rehabilitation of the Callahuanca Hydroelectric Power Station" (1245) [28]; "Carhuaquero IV Hydroelectric Power Plant" (1424) [29]; "La Virgen Hydroelectric Plant" (1445) [30]; "Poechos II Hydroelectric Plant Project" (1836) [31]; "La Joya Hydroelectric Plant" (1889) [32]; "Santa Cruz I Hydroelectric Power Plant" (2405) [33]; "El Platanal

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Hydropower Plant" (2426) /34/; and "Santa Cruz II Hydroelectric Power Plant" (3337) /35/; "Huanza Hydroelectric Project" (4036) /36/.

The benchmark IRR of 12% is validated to be suitable for the project activity by AENOR's validation team in compliance with "Guidelines on the assessment of investment analysis" /37/.

Key parameters needed to complete the investment analysis are specified in the PoA-DD and they are deemed correct and in line with the applicable UNFCCC requirements.

3.7 Monitoring Plan

As stated above, the PoA and CPAs use the approved methodology ACM0002 version 12.2.0 for grid-connected renewable electricity generation.

Applicability of this methodology is justified in the final PoA-DD as it involves grid-connected renewable power generation using hydropower energy.

The build margin emission factor is determined ex-ante based on the most recent information available and will remain fixed for the first crediting period; therefore, the operating margin and combined margin emission factors will be updated annually during monitoring. Accordingly, the Monitoring Plan includes net electricity generated by the project as relevant parameter to be monitored.

As stated in the "Tool to calculate the emission factor for an electricity system", in the methodology ACM0002 version 12.2.0 and in the final PoA-DD, the main monitoring parameters are as follows:

1. $EG_{\text{facility},y}$ ($EG_{p,y}$): Quantity of net electricity generation supplied by the project plant to the grid in year y: This data shall be measured with electricity meters. Measuring equipment should be calibrated according to national standards and manufacturer specifications, calibration period will be less or equal to three years. The quantity of net electricity generation will be measured hourly and recorded monthly. The net electricity will be cross-checked with sales records/electricity invoices to the grid or the final client.
2. $EG_{p,h}$: Electricity displaced by the project plant in hour h: This data shall be measured with electricity meters. Measuring equipment should be calibrated according to national standards and manufacturer specifications, and at least once every three years. The quantity of net electricity generation will be monitored hourly. The net electricity will be cross-checked with sales records from the COES or the final client.
3. $EF_{\text{grid},CM,y}$: Combined margin CO₂ emission factor for grid connected power generation in year y: It will be calculated ex post as per the "Tool to calculate the emission factor for an electricity system", based on the latest information from COES.
4. $EG_{n,h}$: Net electricity generated and delivered to the grid by power plant/unit n, in hour h: Data available from COES annual records. The data is monitored 100% by the COES. Monitored hourly.
5. $n_{m,y}$: Average net energy conversion efficiency of power unit m, in year y: Data from the dispatch centre (COES), annual statistics. Monitoring once for the crediting period. The data from the COES is

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reliable since efficiency is calculated according to the COES procedure Number 17 for the determination of efficiency of thermal power plants.

6. Merit Order: The merit order in which power plants are dispatched: Data from the dispatch centre COES. The data is 100% monitored by COES.
7. $EF_{CO_2,i,y}$ and $EF_{CO_2,m,i,y}$: CO₂ emission factor of fossil fuel type I in year y used in power unit m: Data from 2006 IPCC Guidelines. Monitored annually.
8. Cap_{pj} : Installed capacity of the hydropower plant after the implementation of the project activity: Data based on recognised standards or official data. The monitoring frequency would be yearly.
9. A_{pj} : Area of the single or multiple reservoirs measured in the surface of the water, after the implementation of the project activity, when the reservoir is full: Data determined in accordance with the methodology ACM0002 version 12.2.0. Monitored annually.

Leakage is not produced, so the Monitoring Plan is not applicable to this issue.

Also, roles and responsibilities, training actions, archiving, measuring and calculation procedures, equipment details, calibration frequency and maintenance needs are clearly mentioned in the final PoA-PDD.

Therefore, in the opinion of AENOR's validation team, the PP's will be able to implement the monitoring plan.

3.7.1 Compliance of the Monitoring Plan with the approved methodology

As stated above, the project will continuously measure the net electricity generated by the project plant per year via electricity meters calibrated at least once every three years. These measurement results will be cross-checked with sales reports.

In addition, all necessary parameters required by the selected approved methodology are contained in the Monitoring Plan of the final PoA-DD, and they are clearly described in accordance with the methodology ACM0002 version 12.2.0, and the "Tool to calculate the emission factor for an electricity system" version 02.2.1.

Therefore, AENOR confirms that all parameters required for the selected approved methodology have been stated in the Monitoring Plan of the CPA-DD. They are clearly described and the means of monitoring described in the plan complies with the methodology's requirements. The monitoring of the parameters involved in the emission reductions has been established in a transparent and clear way. Thus, the Monitoring Plan is in compliance with the requirements of the applied methodology.

3.7.2 Implementation of the Monitoring Plan

The PP's have developed the Emission Reduction Calculation Procedure (ERCP) in order to compile the guidelines for the emission reduction calculation detailed in the PoA-DD. In accordance with this procedure, the responsibilities are defined, and the people in charge of the emission reduction calculations

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will gather all the parameters and indicators used to calculate the emission reduction. A Monitoring Plan Steering Committee will be created in order to control the emission reduction calculations. The ERCP Management will be in charge of the emission reduction calculation and will report to the Steering Committee. This is included in ERCP.

AENOR has checked that the provisions included in the Monitoring Plan satisfy the purpose of guaranteeing that the project has been correctly organised since the beginning. The validation team reviewed the COES web page in order to check the availability of information, and all are in conformance with the provisions detailed in the Monitoring Plan of the PoA-DD. Procedures for calibration and maintenance of monitoring equipment, reporting, procedures for review, etc., are also addressed in the procedure.

The Monitoring Plan includes quality and inspection procedures to ensure monitoring accuracy. The main issues of this procedure are summarised as follows:

- The spreadsheets will be reviewed during yearly consolidation of monthly calculations.
- Corrective actions will be taken in the case of malfunction or breakdowns, or simply for more accurate monitoring and reporting;
- An internal audit will be performed by the ERCP Steering Committee each monitoring period.

Finally, AENOR considers that the project participant is able to implement the Monitoring Plan stated in the PoA-DD taking into account all the reasons explained above.

3.8 Comments by Local Stakeholders

Local stakeholders' consultation is chosen to be done at CPA level.

By considering the local stakeholders' comments for each specific CPA, the Programme of Activities ensures that the impact of the specific hydropower plants in the neighbouring communities will be considered.

3.9 Environmental Impacts

Environmental Analysis is chosen to be done at CPA level.

In accordance to the updated Electricity Concessions Law 25844 /5/, for the development of hydropower plants and other renewable energy generation plants of over 500 kW a definite concession is needed (Article 3a & 3d), but generation with renewable sources up to 20MW does not require the presentation of an Environmental Impact Assessment –EIA (Article 38). As a result, considering that all CPAs part of this PoA will be under this limit; they are not legally required to present an EIA. The completion of an EIA or its approval is not required by the Government. However, each CPA will voluntarily develop a separate environmental assessment which will be conducted in line with applicable environmental policies.

Thus, each and every CPA will have the relevant permits and licences ensuring the compliance with the relevant applicable regulation.

4 SPECIFIC PROGRAMME OF ACTIVITIES REQUIREMENTS

4.1 Operational Management and Verification Plan

Management structure of the Monitoring Plan is defined in Section A.4.4 of the PoA-DD. The final PoA-DD address all the issues required by the paragraph 6 (i) of the "Procedures for Registration of a Programme of Activities as a single CDM Project Activity and Issuance of Certified Emission Reductions for a Programme Of Activities".

Operational management and verification plan in the final PoA-DD is assessed to be appropriate for the purpose of the programme monitoring. Description of the operational and management arrangements established by the Coordinating/Managing Entity for the implementation of the PoA is based on the "Inti PoA Management System" /8/ developed for the PoA. The overall responsibility for the monitoring will be held by the Energía Limpia S.A.C. (managing entity).

Energía Limpia S.A.C. will collect the information submitted by each CPA of the PoA. All monitoring data will be stored and archived by the managing entity. Emission reduction calculation of each CPA will be based on data collected and analyzed by Energía Limpia S.A.C. according to the "ERCP" developed for the proposed PoA. The database is confirmed as the data management system designed specifically for the PoA to ensure the data accuracy "Record System" /9/, to avoid double counting, to addressing uncertainty (QA/QC), and to manage monitoring data storage for the monitoring of all CPAs.

4.2 Criteria for Inclusion of CPA in the PoA

A complete list of CPA Eligibility Criteria has been set up in section A.4.2.2 of the final PoA-DD and section B.2 of the generic CPA-DD, and is deemed appropriate and sufficient.

Any CPA to be included in the proposed PoA shall:

1. Be located inside geographical boundary of the PoA, as defined in section A.4.1.2. of the PoA-DD which is the geographical boundary of the Peruvian National Interconnected Electric Grid (SEIN).

The CPA must be located in Peru and connected the national grid.

2. Avoid double counting of emission reductions. In section A.4.4.1. (ii) of the PoA-DD there is a system procedure to avoid double accounting. In addition, each CPA will confirm with a writing statement that:
 - a) It is not registered as a CDM project activity.
 - b) It is not included as a CPA under another PoA.

The description of every CPA should be compared to the list of project activities that are under validation or registered at the UNFCCC and should not coincide. Moreover, the CPA project sponsor has to confirm in a written statement that it is not registered as a CDM project activity nor included as a CPA under another PoA.

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3. Be consistent with the technology described in section A.4.2.1. of the PoA-DD and comply with national standards.

Each CPA will have a power capacity up to 20 MW. The CPA could be composed by one or more new small hydro power plants and will be connected to the Peruvian National Electricity Grid (SEIN). The projects will be based on run of river hydroelectric technology but not limited to it since hydro power plants projects using already built channels or existing reservoirs could also apply. Each CPA will comply with the dispatch center (COES) requisites and local regulations.

4. Have a project starting date after the Global Stakeholder Consultation of the PoA.

The starting date of a CDM project activity is the date on which the implementation or construction or real action of a project activity begins, i.e. signing date of the first mayor contract for the implementation of the project.

5. Ensure compliance with applicability and other requirements of the methodology ACM0002 as explained in section E.2. of the PoA-DD.

The CPA will be a new grid-connected Greenfield hydropower plant with a run-of-river reservoir or existing reservoir. The project does not involve capacity additions, retrofits or replacements. The project activity results in new or existing reservoir and the power density of the power plant, is greater than 10 W/m².

6. Demonstrate the compliance with additionality requirements stated on section E.5.1 and E.5.2. of the PoA-DD.

The CPA demonstrates its additionality based in the investment analysis and common practice analysis. The project is additional if the IRR is lower than the Peruvian benchmark for the electric sector which is 12% and if the project is not part of the common practice.

7. Conducted a stakeholder consultation process as described in section D of the PoA-DD.

The stakeholder consultation report should describe the comments by local residents, a summary of the comments received and how they have been taken into account.

8. Conducted an environmental impact analysis as described in section C of the PoA-DD.

Each CPA will have a separate environmental assessment. The environmental analysis for each CPA will be conducted in line with applicable environmental policies.

9. Confirm through a sworn declaration that the CPA is not using any type of official development assistance from Annex I countries.

10. Comprise one or more newly developed hydro power plant generating a total electricity of up to 20 MW using newly built equipment and must not involve retrofitting or replacement of an existing facility for renewable energy generation. Several hydro power plants could be considered part of a

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CPA if the sum of all of them are up to 20 MW and share significant points in common and are part of the same project.

11. Supply the renewable electricity generated to the Peruvian National Grid (SEIN).
12. Have a cooperation agreement with Energía Limpia S.A.C. to participate in the PoA.
13. Not result in the construction of new reservoirs where the power density of the power plant is less than 10 W/m^2 or in the increase in existing reservoirs where the power density of the power plant is less than 10 W/m^2 .

Each CPA will have to demonstrate the additionality individually at CPA level and this will be checked at the CPA level by the managing entity and can be confirmed by the DOE during inclusion. Every CPA will have to meet all the criteria to ensure eligibility to participate in this PoA.

4.3 Provisions in case of withdrawal or held of the applied methodology

Provisions regarding the revisions of the CPAs in case the methodology is put on hold or withdrawn have been established in accordance with the "Procedures for registration of a Programme of Activities as a single CDM project activity and issuance of certified emission reductions for a Programme of Activities" version 04.1 as follows:

- If the approved methodology is put on hold or withdrawn, for any reason other than for the purpose of inclusion in a consolidated methodology, no new CPAs shall be included to the PoA, in accordance with timelines indicated in the latest of the "Procedures for the revision of an approved baseline and monitoring methodology by the executive Board".
- If the methodology, subsequent to being placed on hold or withdrawn, is revised or replaced by inclusion in a consolidated methodology, the PoA shall be revised accordingly. The changes shall be subsequently document in a new version of PoA, validated by a DOE and approved by the Board. The Board's approval defines a new version of the PoA and the generic CDM-CPA-DD. Such revision to the PoA are not required in cases where a methodology is revised without being placed on hold or withdrawn.
- Once changes have been approved by the Board, the inclusion of all new CPAs shall follow the latest version of generic CDM-CPA-DD.
- CPAs that were included before the methodology was put on hold shall apply the latest version of the PoA generic CDM-CPA-DD at the time of the renewal of the crediting period.

5 COMMENTS BY PARTIES, STAKEHOLDERS AND NGOS

According to Decision 3/CMP.1, the validator shall make the PoA-DD, specific CPA-DD and generic CPA-DD publicly available and receive, within 30 days, comments on the validation requirements from parties, stakeholders and UNFCCC accredited NGOs, and must also make those comments publicly available.

AENOR published the project document on CDM website, on 22 December 2011 and invited comments by parties, stakeholders and non-governmental organisations. No comments were received during this period.

6 VALIDATION OPINION

AENOR has performed the validation of the Programme of Activities **"Inti Renewable Energy Program of Activities"** in Peru. The validation process was performed on the basis of all UNFCCC issues, the host country criteria and also on the criteria given for the Programmes of Activities to provide for consistent project operations, monitoring and reporting. The conclusions of this report show that the Programme of Activities, as it was described in the PoA documentation, is in line with all criteria applicable for the validation.

The validation consisted of the following three phases: i) a desk review of the programme design, the baseline and the monitoring plans; ii) follow-up interviews with project stakeholders; iii) the resolution of outstanding issues and the issuance of the final validation report and opinion. In the course of the validation process, 13 corrective actions and 13 clarifications were raised; all have been successfully closed.

The review of the programme design documentation and additional documents related to baseline and monitoring methodology, and the subsequent background investigation, follow-up interviews and review of comments by parties and stakeholders have provided AENOR with sufficient evidence to validate the fulfilment of the stated criteria.

The conclusions can be summarised in detail as follows:

- The PoA is in line with all relevant host country criteria of Peruvian DNA and with all relevant UNFCCC requirements for CDM. The LoA from Peru is dated 29 February 2012.
- The operational and management plan established by the coordinating entity is suitable for the PoA validated.
- The baseline has been appropriately identified as per the applied methodology.
- Eligibility criteria in the PoA-DD are sufficient to ensure that all CPAs would comply with the CDM requirements applicable to the PoA. These requirements include the means of demonstrating the additionality of the CPA and the applicability of the applied methodology.
- The programme's additionality is sufficiently justified in the PoA-DD.
- The Monitoring Plan and the Operational and Management Plan are transparent and adequate.
- The calculation of validated CPA emission reductions has been carried out in a transparent and conservative manner, following the approved methodology ACM0002 version 12.2.0.
- Information on the local stakeholders' consultation by the project participants prior to submitting the PoA for validation is sufficiently provided in the PoA-DD.
- All information has been also consistently applied in the generic CPA-DD form.

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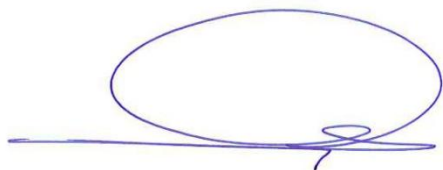
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In our opinion, the Program correctly applies and meets the relevant UNFCCC requirements for the CDM Programme of Activities and the relevant host country criteria. The validation is based on the information made available to us and the engagement conditions detailed in this report.

The validation has been performed using a risk-based approach, as described above. The only purpose of this report is its use during the registration process as part of the CDM project cycle. Hence, AENOR cannot be held liable by any Party for decisions made or not made based on the validation opinion, which would go beyond the purpose.

2012/06/27

2012/06/27

A handwritten signature in blue ink, consisting of a large, rounded loop followed by a horizontal line and a small flourish.

Luis Robles
Authorised person

A handwritten signature in blue ink, featuring a series of overlapping loops and a long horizontal line extending to the right.

Jose Antonio Gesto Vilacoba
Chief Validator

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7 CORRECTIVE ACTION REQUESTS, CLARIFICATIONS AND FORWARD ACTION REQUESTS

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 1		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The Letters of Approval from Peru and the United Kingdom are requested.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The letter of approval from Peru was issued on 29 February 2012. The letter of approval from the United Kingdom is in process.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	The Peruvian letter of approval in its English version is in document: 120301_Natioanl Approval The Peruvian letter of approval in its Spanish version is in document:120301_Aprobacion Nacional		
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The letter of Approval from Peru of the Programme of Activities has been provided. The validation team confirms that the letter is in accordance with CDM requirements. However, the letter of approval from the United Kingdom of the PoA shall be provided once obtained. Therefore, CAR is not closed.		
PP RESPONSE #2	<i>This section shall be filled by the PP.</i>		
<i>Corrective action</i>	ENDESA CARBONO S.L has been removed from the PoA-DD as a project participant; therefore, no Letter of Approval from UK has to be obtained.		
<i>Evidences proposed</i>			
DOE Assessment #2	CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 2		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The information for the project participant Energía Limpia S.A.C. is not consistent in the entire PoA-DD. For example: Annex 1.		
PP RESPONSE #1 <i>It shall address the corrective action taken in details</i>	This section shall be filled by the PP. Annex 1 has been corrected by replacing the word Energia with Energía		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The name of the project participant Energía Limpia S.A.C. has been corrected in Annex 1 of the PoA-DD. However, in other sections of the PDD the name is not consistent. Therefore, CAR is not closed.		
PP RESPONSE #2 <i>Corrective action</i>	This section shall be filled by the PP. Now all the PoA-DD has been reviewed and the name of the project participant Energía Limpia S.A.C. is consistent in the document.		
<i>Evidences proposed</i>	INTI POA		
DOE Assessment #2	The information of the PP Energía Limpia S.A.C. is consistent in the entire PoA-DD. Therefore, CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 3		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The programme title is not consistent in all sections of the PoA-DD.		
PP RESPONSE #1 <i>This section shall be filled by the PP.</i>			
<i>It shall address the corrective action taken in details</i>	The title of IntiPoA has been reviewed in the PoA –DD. Now the title is the same in the entire document.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The PoA-DD has been updated. The validation team confirms that the programme title is consistent in all sections of the PoA-DD. Therefore, CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 4		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The date of the version of the PoA-DD is not consistent with date of completion of baseline study and monitoring methodology.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Now the date of the version of the PoA-DD is consistent with date of completion of baseline study and monitoring methodology, which is 18/11/2011. However, as the PoA-DD has been changed, the version also has changed to version 2 with date 19/03/2012.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The date of completion of baseline study and monitoring has been corrected and now is consistent with the date of the first version of the PoA-DD. Therefore, CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 5		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	<p>The criteria of eligibility are not complete. The eligibility criteria shall be developed and updated in accordance with the latest versions of "Procedures for registration of a Programme of Activities as a single CDM project activity and issuance of certified emission reductions for a Programme of Activities" and "Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities".</p>		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Now section A.4.2.2 of the PoA- DD has been updated accordingly		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	<p>The criteria of eligibility are not complete:</p> <ul style="list-style-type: none"> • The criterion (g) of paragraph 14 of "Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities" is not complete. • A management system in order to ensure that each CPA meets all requirements and eligibility criteria before inclusion in the registered PoA shall be provided to the validation team (paragraph 17 of referred standard). • The eligibility criteria shall be verifiable, i.e. means of verification and sources or documents shall be indicated in the PoA-DD (paragraph 15 of referred standard). • Criteria for demonstration of additionality of the CPA as per criteria (g) of paragraph 6 of "Procedures for registration of a Programme of Activities as a single CDM project activity and issuance of certified emission reductions for a Programme of Activities". <p>Therefore, CAR is not closed.</p>		
PP RESPONSE #2	<i>This section shall be filled by the PP.</i>		
<i>Corrective action</i>	<ul style="list-style-type: none"> • The criterion (g) of paragraph 14 of "Standard for 		

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	<p>demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities" has been completed by adding the PoA-specific requirements stipulated by the CME regarding environmental impact analysis.</p> <ul style="list-style-type: none"> • A management system document has been issued in order to ensure that each CPA meets all requirements and eligibility criteria before inclusion in the registered PoA shall be provided to the validation team (paragraph 17 of referred standard). • The format of the eligibility criteria in the PoA DD has been changed to not only show the criteria but also analysis of the criteria and proposed evidence. The CPA also has been changed accordingly. • The new format of the eligibility criteria includes more information regarding criteria for demonstration of additionality.
<i>Evidences proposed</i>	<p>INTI POA</p> <p>INTI PoA Management System</p>
DOE Assessment #2	<p>The criteria of eligibility is complete in accordance with "Procedures for registration of a Programme of Activities as a single CDM project activity and issuance of certified emission reductions for a Programme of Activities" and "Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities".</p> <p>The validation team considers that the evidence provided is correct.</p> <p>Therefore, CAR is closed.</p>
Conclusion <i>Tick the appropriate checkbox</i>	<div> CAR CLOSED <input checked="" type="checkbox"/> </div> <div> To be checked during the first periodic verification <input type="checkbox"/> </div>

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 6		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The category of the programme shall be correctly identified and indicated in the PoA-DD. The PoA-DD shall confirm to be one of the project categories defined for CDM project activities.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The category of the programme has been correctly identified in section A.4.2. of the PoA-DD.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The category is correctly identified and indicated in section A.4.2 of the PoA-DD. Therefore, CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 7		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Provisions for meeting training and maintenance needs shall be included in the PoA-DD.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Provisions for meeting training and maintenance now are included in the PoA-DD in section A.4.4.2 (iv)		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	Provisions for meeting training and maintenance needs have been included in the PoA-DD. Therefore, CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 8		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The corresponding latest approved version of the applied tools shall be indicated in the PoA-DD.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The PoA has been reviewed to include the corresponding latest approved version of the applied tools		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	<p>The latest approved version of the applied tools has been indicated in the PDD.</p> <p>In addition, the validation team confirms that the PP has correctly justified the applicability of the tools.</p> <p>Therefore, CAR is closed.</p>		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 9		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The applicability criteria of the applied methodology ACM0002 indicated in the PoA-DD is not complete.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The applicability criteria of the applied methodology ACM0002 indicated in the PoA-DD now is completed in section E.2. of the PoA-DD.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The applicability criteria is complete. Therefore, CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 10		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Provisions regarding the updating of the CPAs in case of holding or withdrawal of the methodology ACM0002 shall be taken into account.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	In the end of section E.2 of the PoA-DD provisions regarding the updating of the CPAs in case of held or withdrawal of the methodology ACM0002 have been included.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	Provisions regarding the updating of the CPAs in case of holding or withdrawal the methodology have been included in section E.2 of the PoA-DD. Therefore, CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 11		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The demonstration of PoA additionality shall be correctly described in accordance with the latest version of the Procedures for Registration of a Programme of Activities as a Single CDM Project Activity and issuance of Certified Emission Reductions for a Programme of Activities.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Now section A.4.3. of the PoA has been updated accordingly taking in account the latest version of the Procedures for Registration of a Programme of Activities as a Single CDM Project Activity and issuance of Certified Emission Reductions for a Programme of Activities		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	Section A.4.3. of the PoA has been updated correctly. CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 12		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The list of parameters presented in chapter E.6.3 of the PoA-DD is not complete in accordance with the applied methodology and tool. For example: $EG_{m,y}$, Cap_{BL} .		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Variables $EG_{m,y}$ and Cap_{BL} have been added in section E.6.3. Parameters GWP_{CH_4} and EF_{Res} have been subtracted from the PoA DD because they are not used, <i>as all CPAs</i> to be included in this PoA have a power density higher than 10. The parameter $n_{m,y}$ has been moved to section E.7.1 as it will be monitored once in the crediting period.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The list of parameters stated in chapter E.6.3 of the PoA-DD is complete. However, fixed parametric values, to be used for calculation of emission reductions of a CPA shall be also included in section E.6.2 of the PoA-DD. Therefore, CAR is not closed.		
PP RESPONSE #2	<i>This section shall be filled by the PP.</i>		
<i>Corrective action</i>	The variables Cap_{BL}, $EF_{grid,BM,y}$ and $EG_{m,y}$ have been copied in the end of section E.6.2 since they have fixed values.		
<i>Evidences proposed</i>	INTI POA		
DOE Assessment #2	The list of parameters presented in chapter E.6.3 of the PoA-DD is complete. Therefore, CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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TITLE	Inti Renewable Energy Program of Activities		
FINDING	CAR 13		
Classification	CAR <input checked="" type="checkbox"/>	CL <input type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The list of parameters of the Monitoring Plan is not complete in accordance with the applied methodology ACM0002. For example: $n_{m,y}$.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The parameter $n_{m,y}$ has been moved to section E.7.1 as it will be monitored once in the crediting period.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The validation team confirms that the list of monitoring parameters is complete in section E.7.1 of the PoA-DD. In addition, all of them are clearly described in the Monitoring Plan and in accordance with the applied methodology and tools. Therefore, CAR is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CAR CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

VALIDATION REPORT

"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 1		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	A time line of the programme's history shall be provided.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>		Item	Date
	1	Programme concept and general design	10/10/11
	2	Agreement Andean Hydro –ENDESA to develop the Inti PoA	10/10/11
	3	Contract with first CPA –Starting date of the PoA	19/10/11
	4	Contract FONAM to assist the stakeholder consultation	02/11/11
	5	Contract AENOR	18/11/11
	6	Official Start Validation and Global Stakeholder Consultation (UNFCCC)	22/12/11
	7	Host country letter of approval	29/02/2012
	8	Expected starting date of the first CPA. Signing of first contract for the construction of the project.	September – November 2012
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	<ul style="list-style-type: none"> Evidence for item 1 is available in document "INTI_PoA_Conceptual_document" Evidence for item 2 is available in document "111010_Term_Sheet_ENDESA-INTI_Executed" Evidence for item 3 is available in document "Contrato Bilateral" Evidence for item 4 is not available since it is a confidential document. However, it is available the report of the local 		

VALIDATION REPORT

"Inti Renewable Energy Program of Activities"

	<p>consultation done by FONAM in November 2011 for the first CPA. This document is available in Final Anexo 11 National Approval</p> <ul style="list-style-type: none"> • Evidence for item 5 is not necessary as the DoE has a copy of this document. • Evidence for item 6 is available in the web page of the UNFCCC • Evidence for item 7 is available in : The Peruvian letter of approval in its English version is in document: 120301_Natioanl Approval The Peruvian letter of approval in its Spanish version is in document:120301_Aprobacion Nacional. • Evidence for item 8 is available in document:111107_Memo 7 Schedule Implementation Vilcanota 2 	
<p>DOE Assessment #1</p> <p><i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i></p>	<p>The timeline of the PoA has been provided. The validation team evaluated all the evidence of the corresponding items of the timeline and considers that they are correct.</p> <p>Therefore, CL is closed.</p>	
<p>Conclusion</p> <p><i>Tick the appropriate checkbox</i></p>	<p>CL CLOSED <input checked="" type="checkbox"/></p>	<p>To be checked during the first periodic verification <input type="checkbox"/></p>

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 2		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Evidence of the Programme description shall be provided to the validation team.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>			
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	The evidence is available in document "INTI PoA Conceptual Document" which was prepared by Andean Hydro and Endesa Carbono and launched in 10 October 2011.		
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	Evidence of the programme description has been provided to the validation team. The information provided by this evidence is consistent with the information provided by the PoA-DD. Therefore, CL is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 3		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The description of the technology or measures to be employed by the CPA shall clarify the quantity of hydro power plants to be included in each CPA. In addition, evidence of the description of the technology shall be provided.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Now the description of the technology to be employed by the CPA l clarifies the quantity of hydro power plants to be included in each CPA.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	The evidence of the description of the technology is in document "INTI PoA Conceptual Document" in section 3.3 which was prepared by Andean Hydro and Endesa Carbono and launched on 10 October 2011		
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	<p>The description of the technology to be applied by each CPA has been clarified in section A.4.2.1 of the PoA-DD in accordance with the evidence provided.</p> <p>In addition, this evidence confirms the applicability of the applied methodology ACM0002.</p> <p>Therefore, CL is closed.</p>		
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

VALIDATION REPORT

"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 4		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	A schedule for the implementation of the PoA is required.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>		Item	Date
	1	Programme concept and general design	10/10/11
	2	Agreement Andean Hydro –ENDESA to develop the IntiPoA	10/10/11
	3	Contract with first CPA –Starting date of the PoA	19/10/11
	4	Contract FONAM to assist the stakeholder consultation	02/11/11
	5	Contract AENOR	18/11/11
	6	Official Start Validation and Global Stakeholder Consultation (UNFCCC)	22/12/11
	7	Host country letter of approval	29/02/2012
	8	Expected starting date of the first CPA. Signing of first contract for the construction of the project.	September – November 2012
	9	Expected registration date	July 2012
	10	Call to Peruvian project developers to join the PoA	August 2012
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	The evidence is available in CL1		
DOE Assessment #1	A schedule for the implementation of the PoA has been provided.		

VALIDATION REPORT

"Inti Renewable Energy Program of Activities"

<i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	Therefore, CL is closed.	
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 5		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Evidence of the PoA additionality shall be provided.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	According to the "Procedures for Registration of a Programme of Activities as a Single CDM Project Activity and Issuance of Certified Emissions Reductions for a Programme of Activities" version 04.1., a PoA is additional if it is a voluntary coordinated action by private or public entity which coordinates and implements any policy/measure or sated goal, which leads to anthropogenic GHG emission reductions that are additional to any that would occur in the absence of the PoA, via an unlimited number of CDM programme activities (CPAs).		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	<p>According to the "Procedures for Registration of a Programme of Activities as a Single CDM Project Activity and Issuance of Certified Emissions Reductions for a Programme of Activities" version 04.1., a PoA is additional if it is a voluntary coordinated action by private or public entity which coordinates and implements any policy/measure or sated goal, which leads to anthropogenic GHG emission reductions that are additional to any that would occur in the absence of the PoA, via an unlimited number of CDM programme activities (CPAs).</p> <p>The evidence thatIntiPoA is a voluntary coordinated action is that in Peru there are no mandatory laws or regulations in Peru stipulating to have recourse to CDM to develop hydropower facilities.</p> <p>The legal framework that regulates hydro power development is ruled by the Electric Concession law – ECL (law 25844) released in 1992. This law regulates all activities related to the generation, transmission and distribution of electric energy. Several articles of the ECL imply that hydro power area valid and realistic option and no one of them mention the requirement to seek CDM assistance or to develop PoAs.</p> <p>Evidence: Electric Concession law – ECL (law 25844) which is in document: Ley de Concesiones Elec.</p> <p>It is important to mention that a law for the promotion of</p>		

VALIDATION REPORT

"Inti Renewable Energy Program of Activities"

	<p>renewable energy was issued in May 2008. This law allows renewable projects under 20 MW of power capacity built after the issuance of this law, to apply to a special tariff through bidding to get a PPA with the government. None of its articles enforce to apply to the CDM or POA to apply to the biddings under this law. Evidence: Legislative Decree Number 1002." Legislative Decree for the promotion of investment for power generation from Renewable Energy Sources" which is in document: DL_promocio_inversion_energ_renov_1002</p> <p>The evidence that, Inti PoA would reduce anthropogenic GHG emissions that are additional to any that would occur in the absence of the PoA, via an unlimited number of CDM programme activities (CPAs), is that each CPA has to demonstrate its additionality in the IntiPoA. This means, that in the absence of the CDM, none of the implemented CPAs would occur and therefore the IntiPoA will not lead to any emission reductions. Therefore, the IntiPoA is additional</p> <p>This is consistent with the "Standard for Demonstration of Additionality, Development of Eligibility Criteria and Application of multiple Methodologies for Programme of Activities" (version 01.0).Which is available in document "eb65_repan03") since it mentions that additionality of the PoA shall be demonstrated by establishing that in the absence of the CDM, none of the implemented CPAs would occur, which is the case of Inti PoA.</p>	
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	<p>Evidence has been provided. CL is closed.</p>	
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 6		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The version of the "Tool for the demonstration and assessment of additionality" has to be clarified in section E.5.2 of the PoA-DD.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The version of the "Tool for the demonstration and assessment of additionality" has been clarified in section E.5.2. Now it is clear that version 06.0.0 is used.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The version of the tool has been updated. CL is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 7		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Evidence to support the key criteria and data for assessing additionality of a typical CPA in the PoA-DD shall be provided.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	The evidence to support the key criteria and data for assessing additionality of a typical CPA in the PoA-DD is the relevant regulation of electric sector and evidence for the selected financial benchmark to evaluate the economic viability of an investment in the electric sector in Peru.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	<ul style="list-style-type: none"> • Relevant regulation of electric sector: Peru's Electric Concession Law of 1992 –Law 25844 (ECL). • Decree 015-2007, Terms of reference for feasibility studies for rural electrification in Peru. • Technical report 085-2005-EF/68.1. • Presentation of a World Bank Study regarding the economic and technical feasibility of hydropower projects in Peru. • Letter from MINEM confirming that 12% has been used broadly as a benchmark for the government to evaluate the viability of investments in the electric sector in Peru. • Study from the Peruvian Agency for the Promotion of Private Investment (Proinversion). • Confirmation from FONAFE that 12% (after tax) has been used for evaluation of private investments, including those in the electric sector. • Model spreadsheet used for the calculation of the IRR of the CPA included in the PoA. 		
DOE Assessment #1 <i>The assessment shall encompass all</i>	Evidence has been provided to the validation team: <ul style="list-style-type: none"> • Relevant regulation of electric sector: Peru's Electric 		

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<p><i>open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i></p>	<p>Concession Law of 1992 –Law 25844 (ECL).</p> <ul style="list-style-type: none"> • Decree 015-2007, Terms of reference for feasibility studies for rural electrification in Peru. • Technical report 085-2005-EF/68.1. • Presentation of a World Bank Study regarding the economic and technical feasibility of hydropower projects in Peru. • Letter from MINEM confirming that 12% has been used broadly as a benchmark for the government to evaluate the viability of investments in the electric sector in Peru. • Study from the Peruvian Agency for the Promotion of Private Investment (Proinversion). • Confirmation from FONAFE that 12% (after tax) has been used for evaluation of private investments, including those in the electric sector. • Model spreadsheet used for the calculation of the IRR of the CPA included in the PoA. <p>The validation team confirms that the evidence provided is correct.</p> <p>Therefore, CL is closed.</p>	
<p>Conclusion <i>Tick the appropriate checkbox</i></p>	<p>CL CLOSED <input checked="" type="checkbox"/></p>	<p>To be checked during the first periodic verification <input type="checkbox"/></p>

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 8		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The model spreadsheet for the calculation of the emissions reductions shall be provided.		
PP RESPONSE #1 <i>It shall address the corrective action taken in details</i>	This section shall be filled by the PP. The model spreadsheet was provided.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The model spreadsheet for calculation of emission reductions has been provided to the validation team. However, all formulae and parameters required by the applied methodology and tool shall be correctly presented in the model spreadsheet. Therefore, CL is not closed.		
PP RESPONSE #2 <i>Corrective action</i>	This section shall be filled by the PP. The spreadsheet has been updated accordingly		
<i>Evidences proposed</i>	See spread sheet "CPA spreadsheet for DDA-OM and BM calculation"		
DOE Assessment #2	The model spreadsheet for calculation of emission reductions is not correct. Therefore, CL is not closed.		
PP RESPONSE #3 <i>Corrective action</i>	The model spreadsheet for calculation of emission reductions is correct Please look at it again.		

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<i>Evidences proposed</i>		
DOE Assessment #3	The model spreadsheet for the calculation of the emissions reductions provided by the PP is correct. Therefore, CL is closed.	
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 9		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Evidence of all the data and assumptions listed in the PoA-DD for the calculation of the emissions reductions shall be provided.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Evidence of all the data and assumptions listed in the PoA-DD for the calculation of the emissions reductions has been provided.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	<ul style="list-style-type: none"> • Annual statistics from COES 2010. • COES technical procedure number 17. • COES technical procedure number 20. 		
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	<p>The project participant has provided the following evidence:</p> <ul style="list-style-type: none"> • Annual statistics from COES 2010. • COES technical procedure number 17. • COES technical procedure number 20. <p>The validation team found that the evidence is correct in accordance with the requirements of the applied methodology and tool.</p> <p>Therefore, CL is closed.</p>		
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 10		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The record system (electronic database) for verifying each CPA shall be provided.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	A file has been prepared called "Record System" in which the record keeping system is hosted. Inside of this file, there is an excel database used to track the emission reduction of each hydropower plant over the full duration of the crediting period. The name of that excel sheet is "Track Record of emission reductions Inti – PoA". In addition, there are several files, each one for each CPA and are named as the serial number of the CPA, for example "IntipoA CPA#1". In each of these files, there will be record all information regarding CPA validation and verification for the first crediting period.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	The evidence is available in file "Record System"		
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The record system (electronic database) for verifying each CPA has been provided and the validation team considers that is correct. Therefore, CL is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 11		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	The form of the Contractual Agreement of the CPA Operators with ELSAC shall be provided to the validation team.		
PP RESPONSE #1 <i>It shall address the corrective action taken in details</i>	This section shall be filled by the PP.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	The form of the Contractual Agreement of the CPA Operators with ELSAC is available in document " Bilateral Agreement CPA-IntiPoA form"		
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	The model of agreement between the coordinating entity ELSAC and futures CPA operators has been provided to the validation team. Therefore, CL is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 12		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	It shall be clarified if Andean Hydro Pty. Ltd. is considered a project participant.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	Now, in section E.8. it is stated that Andean Hydro Pty. Ltd. is not a project participant.		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>			
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	It has been clarified that Andean Hydro Pty. Ltd. is not a project participant in section E.8 of the PoA-DD. Therefore, CL is closed.		
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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"Inti Renewable Energy Program of Activities"

TITLE	Inti Renewable Energy Program of Activities		
FINDING	CL 13		
Classification	CAR <input type="checkbox"/>	CL <input checked="" type="checkbox"/>	FAR <input type="checkbox"/>
Description of finding <i>Describe the finding in unambiguous style; address the context (e.g. section)</i>	Evidence of the PoA starting date shall be provided.		
PP RESPONSE #1	<i>This section shall be filled by the PP.</i>		
<i>It shall address the corrective action taken in details</i>	It is used the agreement between ELSAC, PoA Coordinator, and REPSAC, project developer of the CPA Vilcanota II as PoA starting date		
<i>It shall provide and indentified the evidences proposed (if applicable)</i>	Evidence is available in the document " Contrato Bilateral"		
DOE Assessment #1 <i>The assessment shall encompass all open issues. In case of non-closure additional corrective action and DOE assessments (#2, #3, etc.) shall be added</i>	<p>The agreement between ELSAC, PoA Coordinator, and REPSAC, project developer of the CPA Vilcanota II has been provided to the validation team.</p> <p>The audit team confirmed that the evidence is correct to state the starting date of the PoA.</p> <p>Therefore, CL is closed.</p>		
Conclusion <i>Tick the appropriate checkbox</i>	CL CLOSED <input checked="" type="checkbox"/>	To be checked during the first periodic verification <input type="checkbox"/>	

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"Inti Renewable Energy Program of Activities"

8 REFERENCES

Ref	Document Name	Author/Competent Authority
1	CDM PoA-DD Inti Renewable Energy Program of Activities version 1, dated 18 November 2011	PROJECT PROPONENT
2	CDM PoA-DD Inti Renewable Energy Program of Activities version 3, dated 19 June 2012	PROJECT PROPONENT
3	Vilcanota II Hydropower Plant - IntiPoA CPA# 1 CPA-DD version 3, dated 19 June 2012	PROJECT PROPONENT
4	CDM generic CPA-DD	PROJECT PROPONENT
5	Electricity Concessions Law 25844	MINISTRY OF ENERGY AND MINES
6	Approved methodology ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" version 12.2.0, dated 25 November 2011	CDM – EXECUTIVE BOARD
7	Tool for the calculation of the emission factor for an electricity system version 02.2.1, dated on 29 September 2011	CDM – EXECUTIVE BOARD
8	INTI PoA Management System	PROJECT PROPONENT
9	Record System file	PROJECT PROPONENT
10	Standard for Demonstration of Additionality, Development of Eligibility Criteria and Application of Multiple methodologies for Programme of Activities version 01.0, dated 25 November 2011	CDM – EXECUTIVE BOARD
11	Vilcanota II CPA DDA-OM and BM 2010	PROJECT PROPONENT
12	Procedures for Registration of a Programme of Activities as a single CDM project activity and issuance of Certified Emission Reductions for a Programme of Activities version 04.1, dated 04 August 2010	CDM – EXECUTIVE BOARD
13	Tool for the demonstration and assessment of additionality version 06.0.0, dated 25 November 2011	CDM – EXECUTIVE BOARD
14	CDM Validation and Verification Manual version 01.2 dated 30 July 2010	CDM – EXECUTIVE BOARD
15	Letter of Approval from the DNA of Peru dated 29 February 2012	PERUVIAN DNA
17	Instruction for the Processing and Conducting of Validation, Registration, Verification and Certification of Kyoto Protocol CDM Project Activities	AENOR
18	PoA Conceptual Document	PROJECT PROPONENT
19	Model calculation spreadsheet "CPA spreadsheet for DDA-OM and BM calculation"	PROJECT PROPONENT
20	Annual Statistics of Operations, 2010	DISPATCH CENTER
21	COES technical procedure number 17 and 20	DISPATCH CENTER

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Ref	Document Name	Author/Competent Authority
22	Study for the electric supply BCR	CENTRAL RESERVE BANK OF PERU
23	Decree No 015-2007	GOVERNMENT OF PERU
24	OSINERG Study on Investments	OSINERG
25	Technical report 085-2005-EF/68.1	MINISTRY OF ECONOMY AND FINANCE OF PERU
26	Decree Law 25844	GOVERNMENT OF PERU
27	Economic and technical feasibility of Hydropowers in Peru	WORLD BANK
28	Callahuanca Hydroelectric Power Station" (1245)	CDM – EXECUTIVE BOARD
29	Carhuaquero IV Hydroelectric Power Plant" (1424)	CDM – EXECUTIVE BOARD
30	La Virgen Hydroelectric Plant" (1445)	CDM – EXECUTIVE BOARD
31	Poechos II Hydroelectric Plant Project" (1836)	CDM – EXECUTIVE BOARD
32	"La Joya Hydroelectric Plant" (1889)	CDM – EXECUTIVE BOARD
33	Santa Cruz I Hydroelectric Power Plant" (2405)	CDM – EXECUTIVE BOARD
34	El Platanal Hydropower Plant" (2426)	CDM – EXECUTIVE BOARD
35	Santa Cruz II Hydroelectric Power Plant" (3337)	CDM – EXECUTIVE BOARD
36	Huanza Hydroelectric Project" (4036)	CDM – EXECUTIVE BOARD
37	Guidelines on the assessment of investment analysis	CDM – EXECUTIVE BOARD

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"Inti Renewable Energy Program of Activities"

ANNEX 1 CDM VALIDATION PROTOCOL

Validation Protocol

PoA Title: "Inti Renewable Energy Program of Activities"

Date of Completion: 2012/06/27

VALIDATION PROTOCOL
PROGRAMME OF ACTIVITIES:
"Inti Renewable Energy Program of Activities"

PROJECT PARTICIPANT:
Energía Limpia S.A.C.

Validation Type	
<input checked="" type="checkbox"/> Validation of a Programme of Activities	
Validation Team: Jose Antonio Gesto Vilacoba (Chief Validator) Freddy Garro Flores (Validator) Rafael Millán García (Trainee Validator)	
Version of this Validation Protocol: 03	Date: 2012/06/27

Validation Protocol

PoA Title: "Inti Renewable Energy Program of Activities"

Date of Completion: 2012/06/27

CHECKLIST TOPIC / QUESTION	MoU.	COMMENTS	Draft Conclusion	Final Conclusion
A. GENERAL DESCRIPTION OF PROGRAMME OF ACTIVITIES				
A.1. Approval				
A.1.1 Have all the parties involved in the Programme of Activities provided a written Letter of Approval of the Programme of Activities?	DR I	<p>No, Letters of Approval (LoA) have not been provided.</p> <p>CAR 1: The Letters of Approval from Peru and the United Kingdom are requested.</p> <p>The letter of Approval from Peru of the Programme of Activities has been provided.</p> <p>During the validation process Endesa Carbono was voluntarily withdraw as a project participant of the PoA.</p> <p>CAR 1 is closed.</p>	CAR 1	OK
A.1.2 Do the Letters of Approval confirm that: <ul style="list-style-type: none">The Party is a Party to the Kyoto ProtocolThe participation is voluntaryThe CDM Programme of Activities contribute to the sustainable development (host Party)The title of the Programme of Activities is precise and coincides with the title included in the POA-DD?	DR	<p>The LoA has been provided. The validation team confirms that:</p> <ul style="list-style-type: none">Peru is a Party to the Kyoto Protocol.Participation is voluntary.The project activity contributes to Peru sustainable development.The title of the project activity is precise and coincides with the title included in the PDD.	CAR 1	OK
A.1.3 Has the Letter of Approval be obtained from the project participants or directly from the DNA? In case that it has been obtained from the Project participant, how has been assessed its authenticity?	DR	<p>The LoA from Peru has been provided by the PP. The validation team confirms that the letter is signed by the DNA representative.</p>	CAR 1	OK

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A.1.4. Does the coordinating entity of the PoA identify measures to ensure that all CPAs under its PoA are neither registered as an individual CDM project activity nor included in another registered PoA and that the CPA is subscribed to the PoA? (Double accounting methodology)	DR	The coordinating entity has an operational and management plan which includes a system/procedure to avoid double accounting e.g. to avoid the case of including a new CPA that has been already registered either as CDM project activity or as a CPA of another PoA.	OK	OK
A.2. Project participants				
A.2.1. Is the form required for the indication of project participants correctly applied in the POA-DD?	DR	Yes, the form is correctly included in the POA-DD.	OK	OK
A.2.2. Is the participation of all project participants approved by a Party to the Kyoto Protocol?	DR	The participation of "Energía Limpia S.A.C." has been approved by the Peruvian DNA.	CAR 1	OK
A.2.3. Is all information on participants / Parties provided in consistency with details provided by further chapters of the POA-DD (in particular annex 1)?	DR	CAR 2: The information for the project participant Energía Limpia S.A.C. is not consistent in the entire PoA-DD. For example: Annex 1. The information on project participants of the PoA is consistent in the entire PoA-DD. CAR 2 is closed.	CAR 2	OK
A.2.4. Have parties participating in the CDM POA designated a national authority and a coordinating/managing entity for the POA?	DR	The Coordinating/Managing Entity is designated and transparent as detailed in the PoA-DD. Energía Limpia S.A.C. has been designated to act as Coordinating Agency by the Peruvian DNA.	CAR 1	OK
A.2.5. Is the authority and responsibility of the coordinating/management entity clearly described?	DR	Yes. The coordinating entity is Energía Limpia S.A.C. The role and main activities of the coordinating entity are clearly described in the PoA-DD. This issue was confirmed during the on-site visit.	OK	OK

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A.2.6. Is the Coordinating Agency a project participant authorized by all participating host countries DNAs involved and identified in the modalities of communication as the entity which communicates with the Board?	DR	The Coordinating Agency is a project participant authorised by the DNA of Peru, the host country.	CAR 1	OK
A.3. Programme Design Document				
A.3.1. Does the used programme title clearly enable to identify the unique CDM Programme of Activities? Is it consistent in all section of the POA-DD and in all documents?	DR I	Yes, the programme title is "Inti Renewable Energy Program of Activities". CAR 3: The programme title is not consistent in all sections of the PoA-DD. The programme title is consistent in all referenced documents. CAR 3 is closed.	CAR 3	OK
A.3.2. Is there any indication concerning the version number and the date of the version?	D	Yes, there are indications concerning the version number and the date of the version.	OK	OK
A.3.3. Is this consistent with the time line of the programme's history?	DR	CAR 4: The date of the version of the PoA-DD is not consistent with date of completion of baseline study and monitoring methodology. CL 1: A time line of the programme's history shall be provided. The date and version of the PoA-DD is consistent with the timeline of the programme's history. CAR 4 and CL 1 are closed.	CAR 4 CL 1	OK
A.3.4. Is the POA-DD prepared in accordance with the latest template and guidance from the CDM Executive Board?	DR	Yes, the format of the CDM-PoA-DD used is exactly in accordance with the last format published in the UNFCCC web page (CDM-PoA-DD version 01):	OK	OK
A.3.5. Has the POA-DD been published for Global Stakeholder Consultation (GSC) in the UNFCCC webpage?	DR	Yes, the PoA-DD, and the CPA-DD were published for Global Stakeholder Consultation (GSC) in UNFCCC website on 22/12/2011.	OK	OK

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A.3.6. Have there been any comments during the GSC process?	DR	No comments have been received.	OK	OK
A.3.7. Have them correctly addressed by the validation team?	DR	No comments have been received.	OK	OK
A.4. Description of the Programme of Activities The POA-DD (section A.2) shall contain a clear description of the Programme of Activities that provides the reader with a clear understanding of the precise nature of the Programme of Activities.				
A.4.1. Is the description delivering a transparent overview of the Programme of Activities?	DR	Yes, the description of the Programme included in the PoA-DD is transparent and accurate.	OK	OK
A.4.2. What proofs are available demonstrating that the programme description is in compliance with the actual situation or planning?	DR	CL 2: Evidence of the Programme description shall be provided to the validation team. A conceptual document of the PoA has been provided to the validation team. CL 2 is closed.	CL 2	OK
A.4.3. Is the information provided by these proofs consistent with the information provided by the POA-DD?	DR	Yes, the evidence provided to the validation team is in accordance with the information stated in the PoA-DD.	CL 2	OK
A.4.4. Has the validation team conducted a physical site inspection to confirm the description of the POA-DD? If not, justify.	I	Yes, an onsite visit was conducted during 04-05 and 07 February 2012.	OK	OK
A.5. Technical description of the Programme of Activities The POA-DD (section A.4) shall contain a clear description of the Programme of Activities that provides the reader a clear understanding of the technical aspects of its implementation.				
<i>A.5.1. Location of the Programme of Activities</i>				

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A.5.1.1. Is the definition of the boundary for the POA established in terms of a geographical area within which all CPAs will be implemented?	DR	Yes, the Programme of Activities will be implemented within the geographical area of the Republic of Peru.	OK	OK
A.5.1.2 Do the requirement that all applicable national and/or sectoral policies and regulations of the host country within the boundaries chosen taken into account?	DR	Yes. The boundaries of the Programme have been well established, and all sectoral policies and regulations of the host country have been taken into account.	OK	OK
A.5.1.3. Are the eligibility criteria for inclusion of a CPA in the POA clearly defined?	DR	<p>CAR 5: The criteria of eligibility are not complete. The eligibility criteria shall be developed and updated in accordance with the latest versions of "Procedures for registration of a Programme of Activities as a single CDM project activity and issuance of certified emission reductions for a Programme of Activities" and "Standard for demonstration of additionality, development of eligibility criteria and application of multiple methodologies for Programme of Activities".</p> <p>Eligibility criteria are included and transparently described in Section A.4.2.2. of the latest PoA-DD during validation activities, the eligibility criteria have been improved and completed and they are considered correct and clearly defined.</p> <p>CAR 5 is closed.</p>	CAR 5	OK
<i>A.5.2. Category of the Programme of Activities</i>				
A.5.2.1. To which category(ies) does the Programme of Activities belonging to? Is this category correctly identified and indicated?	DR	<p>The proposed PoA falls in the type I scope 1 (Energy industries (renewable - / non-renewable sources) category.</p> <p>CAR 6: The category of the programme shall be correctly identified and indicated in the PoA-DD. The PoA-DD shall confirm to be one of the project categories defined for CDM project activities.</p> <p>The category of the PoA has been correctly identified and indicated in the PoA-DD.</p>	CAR 6	OK

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		CAR 6 is closed.		
A.5.2.2. Does the Programme qualify as a small scale CDM Programme of Activities as defined in paragraph 6 (c) of decision 3/CMP.1 on the modalities and procedures for the CDM?	DR	N/A, the PoA does not qualify as a small-scale CDM Programme of Activities.	N/A	N/A
A.5.2.3. Does proposed POA confirm to one of the project categories defined for small scale CDM project activities?	DR	N/A, the PoA is not a small-scale CDM project activity.	N/A	N/A
A.5.2.3. In the case of a small scale Programme of Activities, is it justified that the CPAs are not a debundled component of a larger CPAs?	DR	N/A.	N/A	N/A
A.5.3. Technology to be employed by the Programme of Activities				
A.5.3.1. Does the description of the technology to be applied provide sufficient and transparent input/information to evaluate its impact on the greenhouse gas balance? And, is the explanation how the programme will reduce greenhouse gas emission transparent and suitable?	DR	<p>CL 3: The description of the technology or measures to be employed by the CPA shall clarify the quantity of hydro power plants to be included in each CPA. In addition, evidence of the description of the technology shall be provided.</p> <p>The description of the technology is transparent and sufficient and the explanation about how the programme will reduce GHG emissions is transparent and suitable.</p> <p>CL 3 is closed.</p>	CL 3	OK
A.5.3.2. Does the programme require extensive initial training and maintenance efforts in order to be carried out as scheduled during the life POA period? If so, does the POA make provisions for meeting training and maintenance needs?	DR	<p>CAR 7: Provisions for meeting training and maintenance needs shall be included in the PoA-DD.</p> <p>Provisions for meeting training and maintenance needs have been included in the PoA-DD.</p> <p>CAR 7 is closed.</p>	CAR 7	OK

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A.5.3.3. Is a schedule available for the implementation of the POA and are there any risks for delays?	DR	CL 4: A schedule for the implementation of the PoA is required. A schedule has been provided to the validation team. No risks are foreseen. CL 4 is closed.	CL 4	OK
<i>A.5.4 Public funding of the Programme of Activities</i>				
A.5.4.1. In case of public funding from Annex I Parties is it confirmed that such funding does not result in a diversion of official development assistance?	DR I	No public financing will be used in this PoA and related CPAs.	OK	OK
A.5.4.2. Is all information provided consistent with the details given in remaining chapters of the POA-DD (in particular annex 2)	DR	Yes, the information provided is consistent.	OK	OK
B. BASELINE AND MONITORING METHODOLOGY				
B.1. Title and reference of the approved baseline and monitoring methodology				
B.1.1. Are reference number, version number, and title of the approved baseline and monitoring methodology clearly indicated?	DR	Yes, the PoA-DD clearly indicates the baseline and monitoring methodology: ACM0002 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" version 12.2.0.	OK	OK
B.1.2. Is the applied version the most recent one and / or is this version still applicable?	DR	The version 12.2.0 is still applicable and request for registration can be submitted until 02 November 2012.	OK	OK
B.1.3. Does the POA-DD refer to the corresponding tools with their latest approved versions?	DR	CAR 8: The corresponding latest approved version of the applied tools shall be indicated in the PoA-DD. The PoA-DD refers to the corresponding tools with their latest approved versions:	CAR 8	OK

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		<ul style="list-style-type: none"> Tool to calculate the emission factor for an electricity system, version 02.2.1. Tool for the demonstration and assessment of additionality, version 06.0.0. <p>CAR 8 is closed.</p>		
B.1.4. Is the baseline methodology applicable to Programmes of Activities?	DR	Yes, the methodology ACM0002 is applicable to Programme of Activities under this category.	OK	OK
B.2. Applicability of the selected methodology to the Programme of Activities				
B.2.1. Are the chosen tools considered applicable in accordance with the design of the POA and the provisions of the applied methodology?	DR	Yes, they are considered applicable.	CAR 8	OK
B.2.2. Is the choice of the methodology correctly justified by the POA-DD and is the POA in conformance with all applicability criteria of the applied methodology?	DR	<p>CAR 9: The applicability criteria of the applied methodology ACM0002 indicated in the PoA-DD is not complete.</p> <p>The choice of the methodology is complete and correctly justified by the PoA-DD and the Programme of Activities is in conformance with all applicability criteria of the applied methodology.</p> <p>CAR 9 is closed.</p>	CAR 9	OK
B.2.3. Are provisions regarding the updating the CPAs in case of held or withdraw the methodology be taken into account in the POA-DD?	DR	<p>CAR 10: Provisions regarding the updating of the CPAs in case of holding or withdrawal of the methodology ACM0002 shall be taken into account.</p> <p>Provisions regarding the updating the CPAs in case of holding or withdrawal of the methodology are included in the final version of the PoA-DD section E.2.</p> <p>CAR 10 is closed.</p>	CAR 10	OK

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Fill in the required amount of sub checklists for applicability criteria as given by the methodology applied and comment at least every line answered with "No"

<p>B.2.4. Criterion 1:</p> <p>This methodology is applicable to grid-connected renewable power generation project activities that (a) install a new power plant at a site where no renewable power plant was operated prior to the implementation of the project activity (greenfield plant); (b) involve a capacity addition; (c) involve a retrofit of (an) existing plant(s); or (d) involve a replacement of (an) existing plant(s).</p>	DR	<table><tr><th>Applicability checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the PoA-DD?</td><td>Yes</td></tr><tr><td>Evidence provided?</td><td>Yes</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table>	Applicability checklist	Yes/No	Criterion discussed in the PoA-DD?	Yes	Evidence provided?	Yes	Compliance verified?	Yes	CL 3	OK
Applicability checklist	Yes/No											
Criterion discussed in the PoA-DD?	Yes											
Evidence provided?	Yes											
Compliance verified?	Yes											
<p>B.2.5. Criterion 2:</p> <p>The project activity is the installation, capacity addition, retrofit or replacement of a power plant/unit of one of the following types: hydro power plant/unit (either with a run-of-river reservoir or an accumulation reservoir), wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit;</p>	DR	<table><tr><th>Applicability checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the PoA-DD?</td><td>Yes</td></tr><tr><td>Evidence provided?</td><td>Yes</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table>	Applicability checklist	Yes/No	Criterion discussed in the PoA-DD?	Yes	Evidence provided?	Yes	Compliance verified?	Yes	CL 3	OK
Applicability checklist	Yes/No											
Criterion discussed in the PoA-DD?	Yes											
Evidence provided?	Yes											
Compliance verified?	Yes											
<p>B.2.6. Criterion 3:</p> <p>In the case of capacity additions, retrofits or replacements (except for wind, solar, wave or tidal power capacity addition projects which use Option 2: on page 10 to calculate the parameter EGP_{j,y}): the existing plant 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 or retrofit of the plant has been undertaken between the start of this minimum historical reference period</p>	DR	<table><tr><th>Applicability checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the PoA-DD?</td><td>Yes</td></tr><tr><td>Evidence provided?</td><td>Yes</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table>	Applicability checklist	Yes/No	Criterion discussed in the PoA-DD?	Yes	Evidence provided?	Yes	Compliance verified?	Yes	CL 3	OK
Applicability checklist	Yes/No											
Criterion discussed in the PoA-DD?	Yes											
Evidence provided?	Yes											
Compliance verified?	Yes											

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and the implementation of the project activity;												
<p>B.2.7. Criterion 4:</p> <p>In case of hydro power plants, one of the following conditions must apply:</p> <ul style="list-style-type: none">• The project activity is implemented in an existing single or multiple reservoirs, with no change in the volume of any of reservoirs; or• The project activity is implemented in an existing single or multiple reservoirs, where the volume of any of reservoirs is increased and the power density of each reservoir, as per the definitions given in the Project Emissions section, is greater than 4 W/m²; or• The project activity results in new single or multiple reservoirs and the power density of each reservoir, as per the definitions given in the Project Emissions section, is greater than 4 W/m². <p>In case of hydro power plants using multiple reservoirs where the power density of any of the reservoirs is lower than 4 W/m² all the following conditions must apply:</p> <ul style="list-style-type: none">• The power density calculated for the entire project activity using equation 5 is greater than 4 W/m²;• Multiple reservoirs and hydro power plants located at the same river and where are designed together to function as an integrated project¹ that collectively constitute the generation capacity of the combined power plant;• Water flow between multiple reservoirs is not used by any other hydropower unit which is not a part of the	DR	<table><tr><th>Applicability checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the PoA-DD?</td><td>Yes</td></tr><tr><td>Evidence provided?</td><td>Yes</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table>	Applicability checklist	Yes/No	Criterion discussed in the PoA-DD?	Yes	Evidence provided?	Yes	Compliance verified?	Yes	CL 3	OK
Applicability checklist	Yes/No											
Criterion discussed in the PoA-DD?	Yes											
Evidence provided?	Yes											
Compliance verified?	Yes											

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<p>project activity;</p> <ul style="list-style-type: none">• Total installed capacity of the power units, which are driven using water from the reservoirs with power density lower than 4 W/m², is lower than 15MW;• Total installed capacity of the power units, which are driven using water from reservoirs with power density lower than 4 W/m², is less than 10% of the total installed capacity of the project activity from multiple reservoirs.												
<p>B.2.8. Criterion 5:</p> <p>The methodology is not applicable to the following:</p> <ul style="list-style-type: none">• 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;• Biomass fired power plants;• Hydro power plants that result in new single reservoir or in the increase in existing single reservoir where the power density of the power plant is less than 4 W/m².		<table><tr><th>Applicability checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the PoA-DD?</td><td>Yes</td></tr><tr><td>Evidence provided?</td><td>Yes</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table>	Applicability checklist	Yes/No	Criterion discussed in the PoA-DD?	Yes	Evidence provided?	Yes	Compliance verified?	Yes	CAR 9	OK
Applicability checklist	Yes/No											
Criterion discussed in the PoA-DD?	Yes											
Evidence provided?	Yes											
Compliance verified?	Yes											
<p>B.2.9. Criterion 6:</p> <p>In the case of retrofits, 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, i.e. 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”.</p>		<table><tr><th>Applicability checklist</th><th>Yes/No</th></tr><tr><td>Criterion discussed in the PoA-DD?</td><td>Yes</td></tr><tr><td>Evidence provided?</td><td>Yes</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table>	Applicability checklist	Yes/No	Criterion discussed in the PoA-DD?	Yes	Evidence provided?	Yes	Compliance verified?	Yes	CAR 9	OK
Applicability checklist	Yes/No											
Criterion discussed in the PoA-DD?	Yes											
Evidence provided?	Yes											
Compliance verified?	Yes											

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B.3. Description of the Programme Boundary				
B.3.1 Are all the sources and gases included in the boundary of the Programme of Activities (baseline scenario, project scenario and leakage) in accordance with the applied methodology?	DR	Yes, section E.3 of the PoA-DD details the gases and sources included in the CPA boundary and they are in accordance with applied methodology.	OK	OK
B.3.2. Are the inclusion or exclusion of the sources of gases correctly justified?	DR	The inclusion and exclusions included in Section E.3 are correctly justified in accordance with the applied methodology.	OK	OK
B.3.3. Do the spatial and technological boundaries as verified on-site comply with the discussion provided by the POA-DD?	DR I	The spatial and technological boundaries as verified on-site do comply with the discussion provided by the PoA-DD.	OK	OK
B.3.4. In case of grid connected electricity POAs, is the relevant grid correctly identified in accordance with EB guidance and the underlying methodology?	DR I	Yes, the relevant grid National Interconnected Electric Grid (called SEIN) is correctly identified in the PoA-DD.	OK	OK
B.4. Description of the baseline scenario identification				
B.4.1. Is the baseline scenario clearly described?	DR	As per PoA-DD, the baseline scenario is the electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the last version of the "Tool to calculate the emission factor for an electricity system". Thus, it is clearly described as in the methodology ACM0002.	OK	OK
B.5. Description of how the anthropogenic emissions of GHG by sources are reduced below those that would have occurred in the absence of the registered CDM Programme of Activities (assessment and demonstration of additionality):				

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B.5.1. Is the PoA additionality assessed according to current versions of : <ul style="list-style-type: none">• Applicable methodology• Tool used to demonstrate the Additionality• Procedures for Registration of a Programme of Activities as a Single CDM Project Activity and issuance of Certified Emission Reductions for a Programme of Activities	DR	PoA additionality is demonstrated in accordance with guidelines of CDM-PoA-DD form. CAR 11: The demonstration of PoA additionality shall be correctly described in accordance with the latest version of the Procedures for Registration of a Programme of Activities as a Single CDM Project Activity and issuance of Certified Emission Reductions for a Programme of Activities. PoA additionality has been assessed and deemed correct. CAR 11 is closed.	CAR 11	OK
<i>B.5.2. Additionality of PoA</i>				
B.5.2.1 Has it been demonstrated that the programme is a voluntary coordinated action that would not be implemented in the absence of CDM?	DR	Yes, The PoA is voluntary coordinated action that would not be implemented in the absence of CDM.	CAR 11	OK
B.5.2.2. If the programme is implementing a mandatory policy/regulation, has it been demonstrated whether the policy/regulation is not being enforced? If it is enforced, has it been demonstrated that the programme will lead to a higher level of enforcement?	DR	No mandatory policy/regulation has been developed in the country.	CAR 11	OK
B.5.2.3. Are all assumptions stated in a transparent and conservative manner?	DR	All the assumptions made by the PP have been detailed clearly and transparently.	CAR 11	OK
B.5.2.4 Is sufficient evidence provided to support the relevance of the arguments made?	DR	CL 5: Evidence of the PoA additionality shall be provided. Sufficient evidence has been provided to support the relevance of the arguments made. CL 5 is closed.	CL 5	OK

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B.5.3 Additionality of the CPA				
B.5.3.1. Is the approach described for demonstrating additionality of a CPA in accordance with the using the current versions of the procedure provided?	DR	<p>The additionality for each CPA under this PoA is demonstrated in accordance with the requirements contain in the using the latest version of the "Tool for the demonstration and assessment of additionality".</p> <p>CL 6: Version of the "Tool for the demonstration and assessment of additionality" has to be clarified in section E.5.2 of the PoA-DD.</p> <p>The version has been finally clarified in the final PoA-DD.</p> <p>CL 6 is closed.</p>	CL 6	OK
B.5.3.2. Does the PoA define the type of information which is to be provided for each CPA to ensure the adequate demonstration of additionality?	DR	<p>The PoA defines the information of each CPA to ensure the adequate demonstration of additionality.</p> <p>However, additionality criteria has to be included in the eligibility criteria according to "Clarifications Regarding the Procedures for Registration of a Programme of Activities as a Single CDM Project Activity And Issuance Of Certified Emission Reductions for a Programme Of Activities"- EB 60 Annex 26, which clarifies that a full additionality assessment is not required in the context of component project activities, rather the confirmation of additionality for CPAs should be conducted by means of the eligibility criteria. The current version of the Procedures for Registration of a Programme of Activities as a Single CDM Project Activity and issuance of Certified Emission Reductions for a Programme of Activities, paragraph 6.e states "Definition of eligibility criteria for inclusion of a project activity as a CPA under the PoA, which shall include, as appropriate, criteria for demonstration of additionality of the CPA, and the type and/or extent of information (e.g. criteria, indicators, variables, parameters or measurements) that shall be provided by each CPA in order to ensure its eligibility".</p> <p>Once CAR 5 has been resolved the validation team considers that the definition of eligibility criteria has included, criteria for demonstration of additionality of the CPA, and the type and/or extent of information (e.g.</p>	CAR 5	OK

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		criteria, indicators, variables, parameters or measurements) provided by each CPA in order to ensure its eligibility is clear and transparent.		
B.5.3.3. Is the additionality of a typical CPA demonstrated?	DR	The additionality of a typical CPA is demonstrated at PoA level. In addition, the additionality of the CPA included in the PoA has been demonstrated in the CPA-DD.	OK	OK
B.5.3.4. Is sufficient evidence provided to support the relevance of the arguments made?	DR	CL 7: Evidence to support the key criteria and data for assessing additionality of a typical CPA in the PoA-DD shall be provided. Sufficient evidence was provided to support the relevance of the arguments made. CL 7 is closed.	CL 7	OK
B.6. Emissions reductions				
<i>B.6.1. Explanation of methodological choices</i>				
B.6.1.1. Is it explained how the procedures provided in the methodology are applied by the proposed Programme of Activities?	DR	Yes, the procedures determined in the methodology and tools are included in the PoA-DD.	OK	OK
B.6.1.2. Is every selection of options offered by the methodology correctly justified and is this justification in line with the situation verified on-site?	DR	Yes, every selection of options offered by the applied methodology and tool has been justified in the PoA-DD and is in line with the situation verified during the on-site visit. The options proposed by the PoA are: OM annually monitored ex-post and BM ex-ante calculated (fixed). Evidence supporting the different methods (options chosen to determine both OM and BM emission factors have been provided,	OK	OK

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B.6.1.3. Are the formulae required for the determination of emissions reductions correctly presented and used? (<i>Open excel, trazability of data, etc</i>)	DR	<p>CL 8: The model spreadsheet for the calculation of the emissions reductions shall be provided.</p> <p>The model spreadsheets have been provided to the validation team and found to be correct.</p> <p>The formulae for the determination of emission reductions are correctly stated in the PoA-DD and the spreadsheets provided to AENOR.</p> <p>CL 8 is closed.</p>	CL 8	OK
B.6.1.4 Are all the data and assumptions listed in the POA-DD and are appropriate and calculations result in a conservative estimate of emission reductions?	DR	<p>CL 9: Evidence of all the data and assumptions listed in the PoA-DD for the calculation of the emission reductions shall be provided.</p> <p>All data and assumptions detailed in the final PoA-DD are clearly listed and stated in accordance with the applied methodology.</p> <p>CL 9 is closed.</p>	CL 9	OK
B.6.1.5. Are the formulae required for the determination of emission reductions correctly presented?	DR	Yes, the formulae are correctly presented in the PoA-DD and they are stated in accordance with the applied methodology and tool.	OK	OK
<i>B.6.2. Data and parameters that are to be reported in the CDM-CPA at validation</i>				
B.6.2.1. Is the list of parameters presented in chapter E.6.3 considered to be complete with regard to the requirements of the applied methodology?	DR	<p>CAR 12: The list of parameters presented in chapter E.6.3 of the PoA-DD is not complete in accordance with the applied methodology and tool. For example: $EG_{m,y}$, Cap_{BL}.</p> <p>Final version of the PoA-DD includes a complete list of parameters.</p> <p>CAR 12 is closed.</p>	CAR 12	OK
B.6.2.2. Are all the data derived from official data sources or replicable records and have been correctly quoted?	DR	Yes. All the data are derived from official data sources and they have been correctly quoted.	OK	OK

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<i>B.6.3 Calculation of GHG Emission Reductions – Baseline Emissions</i> <i>It is assessed whether the baseline emissions are stated according to the methodology and whether the argumentation for the choice of default factors and values – where applicable – is justified.</i>				
B.6.3.1 Are the calculations documented according to the approved methodology and in a complete and transparent manner?	DR	The BM emission factor calculations are documented in the final version of the PoA-DD in a complete and transparent manner	OK	OK
B.6.3.2. Have conservative assumptions been used when calculating the baseline emissions?	DR	Yes, conservative assumptions have been used when calculating the BM emission factor.	CL 9	OK
B.6.3.3 Are uncertainties in the baseline emission estimates properly addressed?	DR	No uncertainties have been detected.	CL 9	OK
B.6.3.4. Is additional background information on baseline data provided in Annex 3 of the POA-DD? Is this information consistent with data presented by other sections of the POA-DD?	DR	No baseline information has been included in Annex 3.	OK	OK
<i>B.6.4 Calculation of GHG Emission Reductions – Project Emissions</i> <i>It is assessed whether the project emissions are stated according to the methodology and whether the argumentation for the choice of default factors and values – where applicable – is justified.</i>				
B.6.4.1 Are the calculations documented according to the approved methodology and in a complete and transparent manner?	DR	Provisions for the calculation of the power density of each CPA have been included in the latest PoA-DD. Yes, all the calculations are documented according to the applied methodology in a complete and transparent manner.	OK	OK
B.6.4.2. Have conservative assumptions been used when calculating the project emissions?	DR	Yes, the calculations are conservative.	OK	OK
B.6.4.3 Are uncertainties in the project emission estimates properly addressed?	DR	Yes, uncertainties have been addressed.	OK	OK

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B.6.5. Calculation of GHG Emission Reductions – Leakage <i>It is assessed whether leakage emissions are stated according to the methodology and whether the argumentation for the choice of default factors and values – where applicable – is justified.</i>				
B.6.5.1 Are the leakage calculations documented according to the approved methodology and in a complete and transparent manner?	DR	No leakage emissions are considered in accordance with methodology ACM0002.	OK	OK
B.6.5.2. Have conservative assumptions been used when calculating the leakage emissions?	DR	No leakage emissions are considered in accordance with methodology ACM0002.	OK	OK
B.6.5.3. Are uncertainties in the leakage emission estimates properly addressed?	DR	No leakage emissions are considered in accordance with methodology ACM0002.	OK	OK
B.7. Application of the monitoring methodology and description of the monitoring plan				
<i>B.7.1. Description of the monitoring plan</i>				
B.7.1.1 Is the monitoring plan documented according to the approved methodology and relevant tools and in a complete and transparent manner?	DR	Yes, the Monitoring Plan is in accordance with the Baseline and Monitoring methodology applied will be ACM0002 version 12.2.0 and the "Tool to calculate the emission factor for an electricity system" version 02.2.1.	OK	OK
B.7.1.2. Does the monitoring methodology provide a consistent approach in the context of all parameters to be monitored and further information provided in the POA-DD? Are the monitoring provisions and data parameters that a CPA has to apply correctly described?	DR	System for collection, processing and archiving monitoring data have been provided to the validation team. The description of the monitoring and the parameters to be monitored in each CPA are correctly described in the final version of the PoA-DD sections E 7.1, E 7.2. and Annex 4.	OK	OK
B.7.1.3. Is the proposed sampling methodology used by the DOE for verification correctly described?	DR	N/A. Sampling method/procedure to be used by DOEs for verification is not	N/A	N/A

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		used.		
B.7.1.4. In case of sampling methodology would be used; the system used to assure that no double counting occurs and that the status of verification can be determined anytime for each CPA is transparently described?	DR	N/A	N/A	N/A
B.7.1.5. Are the provisions made for archiving Programme of Activities emission data sufficient to enable later verification?	DR	CL 10: The record system (electronic database) for verifying each CPA shall be provided. Provisions for archiving data are consistent with the requirements of the applied methodology. CL 10 is closed.	CL 10	OK
B.7.1.6. Does the monitoring plan provide a clear description of the organization structure involved in monitoring activities and their responsibilities?	DR	Yes, the organisational structure is detailed in the PoA-DD. The Emissions Reductions Calculation Procedure (ERCP) Organisational Structure is transparently detailed in the documentation.	OK	OK
B.7.1.7. If applicable: Does annex 4 provide useful information enabling a better understanding of the envisioned monitoring provisions?	DR	Yes, additional information has been included in Annex 4 of the PoA-DD.	OK	OK
B.7.1.8. Is the registration, monitoring, measurement and reporting procedure defined?	DR	Yes, the Monitoring Plan states provisions for registration, monitoring, measurement and reporting activities.	OK	OK
<i>B.7.2 Compliance of the monitoring plan with the approved methodology</i>				
B.7.2.1 Is the list of parameters considered to be complete with regard to the requirements of the applied methodology? Are all of them clearly described in the monitoring plan and in accordance with the methodology and tools?	DR	CAR 13: The list of parameters of the Monitoring Plan is not complete in accordance with the applied methodology ACM0002. For example: $n_{m,y}$. The list of parameters considered is complete and the parameters are clearly described in accordance with the methodology ACM0002.	CAR 13	OK

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		CAR 13 is closed.		
B.7.2.2. Does the monitoring plan provide for the collection and archiving of all relevant data necessary for estimation or measuring the emission reductions within the project boundary during the crediting period?	DR	Yes, the Monitoring Plan of the PoA for a CPA provides for collection of the data of monitored parameters needed for the estimation of the emission reductions.	OK	OK
B.7.3 Implementation of the Monitoring Plan				
B.7.3.1 Do the means of monitoring of each of the parameters included in the plan complies with the requirements of the methodology?	DR	As it has been previously mentioned, only the BM emission factor is fixed ex-ante. The monitoring of all parameters included in the Monitoring Plan is in accordance with the applied methodology.	CAR 13	OK
B.7.3.2. Is the measurement equipment described and deemed appropriate?	DR	Yes, the measurement equipment will be high-precision electricity meters (class 0.2), and it is considered appropriate.	OK	OK
B.7.3.3. Are procedures identified for maintenance of monitoring equipment and installations? Are provisions regarding the calibration intervals included in the monitoring plan?	DR	The project entity will implement QA & QC procedure to calibrate and guarantee the accuracy of metering and safety of the project operation. Procedures for maintenance and installation of equipment, as well as calibration, will be performed according to manufacturer specifications of equipment. The metering devices will be calibrated at least once in three years.	OK	OK
B.7.3.4. Is the measurement accuracy addressed and deemed appropriate? Are procedures in place on how to deal with erroneous measurements or lack of data?	DR	Yes, the Monitoring Plan of the PoA-DD includes procedures in case of errors or problems.	OK	OK
B.7.3.5. A record keeping system for each CPA under the POA is	DR	A record keeping system has been prepared in order to monitor the data	OK	OK

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forecasted?		of each of the CPAs. Procedures for collection, processing and archiving monitored data have been indicated in the PoA DD in section A.4.4.2.		
B.7.3.6. Is the monitoring Plan sufficient to ensure the verification of a proper implementation of the monitoring plan?	DR	Yes, it is considered sufficient.	CL 10	OK
B.7.3.7. Are procedures identified to ensure that those operating the CPAs are aware and have agreed that their activity is being subscribed to the POA?	DR	Yes, procedures to assure that the operators of the CPAs are aware and have agreed that their activity will be subscribed to the PoA are forecasted. As it is stated in the PoA-DD, the project implementer of a CPA shall enter into a contractual arrangement with the coordinating entity including provisions regarding this issue. CL 11: The form of the Contractual Agreement of the CPA Operators with ELSAC shall be provided to the validation team. The model of agreement between the coordinating entity ELSAC and future CPA operators has been provided to the validation team. CL 11 is closed.	CL 11	OK
B.8. Date of completion of the application of the baseline study and monitoring methodology and the name of the responsible person(s)/entity(ies)				
B.8.1. Is there any indication of a date when the baseline and monitoring was determined?	DR	Yes, the date of completion of the application of the baseline study and monitoring methodology was on 18 November 2011.	OK	OK
B.8.2. Is this consistent with the time line of the POA-DD history?	DR	Yes, it is consistent.	CAR 4	OK
B.8.3. Is the information on the person(s)/entity(ies) responsible for the application of the baseline and monitoring methodology provided consistent with the actual situation?	DR	Yes, The baseline and monitoring sections have been prepared by Andean Hydro Pty. Ltd. and Endesa Carbone S.L.	OK	OK

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B.8.4. Is information provided whether this person / entity is also considered a project participant?	DR	CL 12: It shall be clarified if Andean Hydro Pty. Ltd. is considered a project participant. Information is provided in section E.8 of the PoA-DD, Endesa Carbono S.L. and Andean Hydro Pty. Ltd are not project participants. CL 12 is closed.	CL 12	OK
C. DURATION OF THE PROGRAMME OF ACTIVITIES / CREDITING PERIOD				
C.1. Duration of the Programme of Activities				
C.1.1. Are the POA starting date and operational lifetime clearly defined and reasonable?	DR	CL 13: Evidence of the PoA starting date shall be provided. The PoA starting date has been clearly define in the PoA-DD as 19 October 2011, the date of the contract signed between the coordinating entity and the CPA participant, which is deemed appropriate. CL 13 is closed. The operational lifetime stated in the PoA-DD is 28 years. Thus, they are clearly defined and reasonable.	CL 13	OK
D. ENVIRONMENTAL IMPACTS				
D.1. Documentation on the analysis of the environmental impacts, including transboundary impacts				
D.1.1. Is the environment analysis undertaken at POA level? In negative case, is this issue correctly described and reflected in the CDM-POA-DD?	DR	The environmental impacts analysis will be done at CPA level as it is clearly indicated in the PoA-DD.	OK	OK
D.1.2. Has the analysis of the environmental impacts of the Programme of Activities been sufficiently described in the	DR	Not applicable since the environmental analysis is made at CPA level.	N/A	N/A

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POA-DD?				
D.1.3. Are there any Host Party requirements for an Environmental Impact Assessment (EIA), and if yes, has an EIA been approved?	DR	Not applicable since the environmental analysis is made at CPA level.	N/A	N/A
D.1.4. Will the Programme create any adverse environmental effects? Have they identified as significant?	DR	Not applicable since the environmental analysis is made at CPA level.	N/A	N/A
D.1.5. Are transboundary environmental impacts identified in the analysis?	DR	Not applicable since the environmental analysis is made at CPA level.	N/A	N/A
D.2. If environmental impacts are considered significant by the project participants or the host Party, please provide conclusions and all references to support documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party.				
D.2.1. Have the identified environmental impacts been addressed in the programme design sufficiently?	DR	Not applicable since the environmental analysis is made at CPA level.	N/A	N/A
D.2.2. Does the programme comply with any other environmental legislation in the host country?	DR	Not applicable since the environmental analysis is made at CPA level.	N/A	N/A
E. STAKEHOLDERS' COMMENTS				
E.1. Brief description how comments by local stakeholders have been invited and compiled				
E.1.1. Is the stakeholders consultation process undertaken at POA level? In negative case, is this issue correctly described and reflected in the CDM-POA-DD?	DR	The stakeholders consultation process will be done at CPA level as it is clearly indicated in the PoA-DD.	OK	OK
E.1.2. Have relevant stakeholders been consulted? Is the exact date of the consultation process included in the POA-DD	DR	Not applicable since the stakeholders consultation process is made at CPA level.	N/A	N/A

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E.1.3. Have appropriate media been used to invite comments by local stakeholders?	DR	Not applicable since the stakeholders consultation process is made at CPA level.	N/A	N/A
E.1.4. If a stakeholder consultation process is required by regulations/laws in the host country, has the stakeholder consultation process been carried out in accordance with such regulations/laws?	DR	Not applicable since the stakeholders consultation process is made at CPA level.	N/A	N/A
E.1.5. Is the undertaken stakeholder process that was carried out described in a complete and transparent manner?	DR	Not applicable since the stakeholders consultation process is made at CPA level.	N/A	N/A
E.2. Summary of the comments received				
E.2.1. Is a summary of the stakeholder comments received provided?	DR	Not applicable since the stakeholders consultation process is made at CPA level.	N/A	N/A
E.3. Report on how due account was taken of any comments received				
E.3.1. Has due account been taken of any stakeholder comments received?	DR	Not applicable since the stakeholders consultation process is made at CPA level.	N/A	N/A