

ASSESSMENT OPINION  
POST REGISTRATION CHANGES

Generadora de Occidente Ltda. (GdO)  
World Bank

**“EL CANADÁ HYDROELECTRIC PROJECT”**

UNFCCC REFERENCE NUMBER: 0606

AENOR Reference No: 2014/018/CDM/30

Assessment opinion on Post registration changes  
"El Canadá Hydroelectric Project"

<b>Validation opinion:</b>	AENOR Reference No.:		Version of this document:		Date of this rev.:			
	2014/018/CDM/30		02		31/10/2014			
<b>Project:</b>	Title:		Renewal crediting period date:		UNFCCC Reference			
	El Canadá Hydroelectric Project		14/08/2013		0606			
<b>Project Participant(s):</b>	Host Party:		Other involved Parties:					
	Guatemala		Finland, Japan, Netherlands, Norway, Sweden, France and Germany.					
	Generadora de Occidente Ltda. (GdO)		<p>Government of Finland - Ministry of Foreign Affairs of Finland; Fortum Corporation; Chubu Electric Power Co., Inc; The Chugoku Electric Power Co., Inc.; Kyushu Electric Power Co., Inc.; Mitsubishi Corporation; MIT Carbon Fund Co., Ltd. (withdrawn on 25/07/2012); Shikoku Electric Power Co., Inc.; Tohoku Electric Power Co., Inc.; The Tokyo Electric Power Co., Inc.; Japan International Cooperation Agency (JICA); Mitsui &amp; Co., Ltd.</p> <p>Netherlands' Ministry of Infrastructure and the Environment (IenM); Electrabel N.V.; Netherlands' Ministry of Economic Affairs, Agriculture and Innovation (EL&amp;I)</p> <p>Government of Norway – Ministry of Foreign Affairs; Norsk Hydro ASA; Statoil ASA;</p> <p>Government of Sweden - Swedish Energy Agency</p> <p>GDF SUEZ</p> <p>RWE Power AG; Deutsche Bank AG; BP Alternative Energy International Ltd.</p>					
<b>Applied methodology/ies:</b>	Title:		Code:		No revision			
	Consolidated methodology for grid-connected electricity generation from renewable sources		ACM0002		13.0			
<b>PDD:</b>	Registered PDD		Revised PDD:					
	Version		11		12			
	Date		01/05/2013		28/10/2014			
	Estimated emission reductions		96,463 tCO <sub>2</sub> /year		96,463 tCO <sub>2</sub> /year			
<b>Previous versions of this document:</b>			Version:		Date:			
			1		28/10/2014			
<b>Validation of the changes was conducted</b>	<input type="checkbox"/> Prior to the commencement of a verification of the project activity <input checked="" type="checkbox"/> When performing a verification of the project activity							
<b>Summary of Post registration changes:</b>	<table border="1" style="width: 100%;"> <tr> <td style="width: 80%;"><b>TYPE OF POST REGISTRATION CHANGE</b></td> <td style="width: 20%;"><b>Is prior approval by CDM EB required?</b> (According to appendix 1 of PS)</td> </tr> </table>						<b>TYPE OF POST REGISTRATION CHANGE</b>	<b>Is prior approval by CDM EB required?</b> (According to appendix 1 of PS)
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	<b>Temporary deviations from the registered monitoring plan or applied methodology</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not applicable
	<b>Corrections</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not applicable
	- Inclusion of parameters $A_{BL}$ and $Cap_{BL}$ in section B.6.2 of the PDD	
	<b>Changes to the start date of the crediting period</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not applicable
	<b>Permanent changes from the registered monitoring plan or applied methodology</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not applicable
	- Inclusion of parameters $A_{PJ}$ and $Cap_{PJ}$ in section B.7.1 of the PDD	
	<b>Changes to the project design of a registered project activity</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not applicable
	<p>AENOR was contracted to perform the verification of the CDM project activity: “El Canadá Hydroelectric Project” (Registration Ref. No. 0606) for the monitoring period from 23/11/2010 to 30/04/2014, and during the on site visit, some post-registration changes were identified by the audit team.</p> <p>In accordance with paragraph 265 of the CDM Project Standard version 07.0, Project Participants shall identify and document any actual or proposed changes to the operation, implementation and/or monitoring of the registered CDM project activity taking into account the types of changes described in appendix 1, which describes the types of changes that do not require prior approval by the Board.</p> <p>The Spanish Association for Standardisation and Certification (AENOR) has performed the assessment opinion on the post registration changes identified for in the CDM project activity: “El Canadá Hydroelectric Project” (Registration Ref. No. 0606)</p> <p>According to Appendix 1 of the CDM Project Standard version 07, changes detected and alternatives proposed for the project do not require Prior Approval because the monitoring procedures and equipment actually installed have a higher accuracy level than the one stipulated in the applied methodologies and in the registered monitoring plan, and the monitoring equipment is under the control of the project participants.</p> <p>It is AENOR opinion that no prior approval by the Board is necessary for this post registration changes and therefore, according to paragraph 142 of the CDM Project Cycle Procedure version 07.0 /4/ AENOR is submitting the post registration changes for acceptance by the Board as part of the present request for issuance of CERs for the period 23/11/2010 - 30/04/2014.</p> <p>AENOR confirms that the transfer of information from the old form of the PDD registered (CDM- PDD version 04.1) to the new form under VVS track (F-CDM- PDD Version 05.0) is totally correct and materially the same as the information in the PDD renewed on 14/08/2013.</p>	
	<b>Report prepared by:</b>	Climate Change Unit. AENOR

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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 13.0)
CAR	Corrective action request
CDM	Clean development mechanism
CDM-EB	CDM Executive Board
CER	Certified emission reduction
CL	Clarification request
CMP	Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol
CO <sub>2</sub>	Carbon dioxide
CO <sub>2</sub> e	Carbon dioxide equivalent
DNA	Designated national authority
DOE	Designated operational entity
ER	Emission reduction
FAR	Forward action request
GHG	Greenhouse gas(es)
MoV	Means of verification
MP	Monitoring Plan
MR	Monitoring report
MW	Megawatt
PCP	Clean Development Mechanism Project Cycle Procedure (Version 07.0)
PDD	Project Design Document
PP	Project participants
PS	Clean Development Mechanism Project Standard (Version 07.0)
tC	Carbon tonnes
tCO <sub>2</sub> eq	Carbon dioxide equivalent tonnes
UNFCCC	United Nations Framework Convention on Climate Change
VVS	CDM Validation and Verification Standard version 07.0

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## 1 INTRODUCTION

The World Bank commissioned AENOR to carry out the verification and certification of the emission reductions generated by “El Canadá Hydroelectric Project” in Guatemala (the project) for the period 23/11/2010 – 30/04/2014. After the on site visit and the corresponding desk review, some inconsistencies were identified by the audit team and therefore post registration shall be requested by the Project Participants.

### 1.1 Objective

In accordance with paragraph 265 CDM Project Standard version 07.0, Project Participants shall identify and document any actual or proposed changes to the operation, implementation and/or monitoring of the registered CDM project activity taking into account the types of changes described in Appendix 1, which describes the types of changes that do not require prior approval by the Board.

This assessment opinion contains the description of the post registration changes, including their nature, extent of the non-conforming monitoring and the proposed alternative monitoring of the project activity, as well as any other complementary information required by the latest versions of the PCP, PS and VVS.

### 1.2 Scope

The scope of the validation is to assess all changes from the project activity as described in the revised project design document, including their negative impact on the estimates of the emissions reductions, the level of accuracy of the monitoring activity, the additionality or scale of the project activity and the applicability and application of approved methodology.

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

- PDD and monitoring plan registered /1/.
- Methodology: ACM0002 version 13.0 /2/
- CDM Validation and Verification Standard, version 07.0. /3/
- Clean Development Mechanism Project Cycle Procedure, version 07.0. /4/
- Clean Development Mechanism Project Standard, version 07.0. /5/
- Associated documentation (manufacturer documentation, design documentation, agreements, etc.)

The validation scope is defined as an independent and objective review of the post registration changes included in the revised project design document, including the revised 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 PCP, the PS and the VVS, has used a risk-based approach in the validation, focusing on the identification of significant risks for the project implementation and the generation of CERs.

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

### 1.3 Description of the Project Activity

Host Country:	Guatemala
Title of project activity:	El Canadá Hydroelectric Project

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UNFCCC registration No:	0606
Project Participants:	<p>Generadora de Occidente Ltda. (GdO)</p> <p>Government of Finland- Ministry of Foreign Affairs of Finland;</p> <p>Fortum Corporation. (Finland)</p> <p>Chubu Electric Power Co., Inc; The Chugoku Electric Power Co., Inc.; Kyushu Electric Power Co., Inc.; Mitsubishi Corporation; Shikoku Electric Power Co., Inc.; Tohoku Electric Power Co., Inc.; The Tokyo Electric Power Co., Inc.; Japan International Cooperation Agency (JICA); Mitsui &amp; Co., Ltd. (Japan)</p> <p>Netherlands' Ministry of Infrastructure and the Environment (IenM); Electrabel N.V.; Netherlands' Ministry of Economic Affairs, Agriculture and Innovation (EL&amp;I) (Netherlands)</p> <p>Government of Norway – Ministry of Foreign Affairs; Norsk Hydr ASA; Statoil ASA; (Norway)</p> <p>Government of Sweden - Swedish Energy Agency (Sweden)</p> <p>GDF SUEZ (France)</p> <p>RWE Power AG; Deutsche Bank AG; BP Alternative Energy International Ltd. (Germany)</p>
Location of the project activity:	The coordinates of the powerhouse are North 14°41'08.80"; East 91°31'53.35".
Project crediting period:	23/11/2010 to 22/11/2017 (second renewable period)
Verification period:	23/11/2010 to 30/04/2014
Project starting date:	23/11/2003

The validation and previous verifications are summarised below:

Process	DOE	Crediting/Monitoring Period	Registration Date	Amount of CERs
Validation	DNV	23/11/2003 to 22/11/2010	02/12/2006	829,690
1 <sup>st</sup> Verification	SGS	23/11/2003 to 30/06/2007	06/10/2008	397,378
Revision of the Monitoring Plan	TÜV NORD	23/11/2003 to 22/11/2010	13/09/2010	-
Revision of the PDD	TÜV NORD	23/11/2003 to 22/11/2010	02/05/2012	913,992
2 <sup>nd</sup> Verification	TÜV NORD	01/07/2007 to 31/12/2008	14/11/2012	228,854
3 <sup>rd</sup> Verification	AENOR	01/01/2009 to 31/05/2010	24/04/2013	165,762
4 <sup>th</sup> Verification	AENOR	01/06/2010 to 22/11/2010	12/07/2013	111,095
Renewal Crediting Period	DNV	23/11/2010 to 22/11/2017	14/08/2013	96,436 tCO <sub>2</sub> e / year

The purpose of the El Canadá Hydroelectric Project is to generate electricity, utilizing renewable energy sources, to be supply to the Guatemalan National Grid. El Canadá installed capacity is 48.11MW. The Project generates electricity without emitting GHGs. It reduces anthropogenic GHG emissions by displacing GHGs that would have been emitted if fossil fuels were burned to generate power.

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The Project collects power flows from the tailrace of the existing Santa María power plant that is owned by INDE and also collects spillages from the Santa María dam and local inflow from the area between the Santa María dam and the Project diversion dam.

All power flows flow through a desander, located immediately downstream of the diversion dam, and are subsequently diverted through a tunnel, three meters in diameter and approximately 1200 m long, to a regulating pond. The regulating pond is designed to collect water inflows for daily peaking operation, totalling 5 hours. The live storage volume is 184,000 m<sup>3</sup>, using an 8-meter pond fluctuation.

The normal operating level of the reservoir is 1,416.90 meters above sea level (masl) and the minimum operating level is 1,409 masl. An intake structure on the regulating reservoir is equipped with trash racks and a hydraulically operated gate. The gate is equipped to close during emergency conditions in the event of penstock rupture.

The penstock is approximately 2,400 m long and conveys the power flows from the regulating reservoir to the powerhouse. It is comprised of a low- and a high-pressure section 1,590 and 800 m long, respectively. The penstock is bifurcated into two 1.45-m diameter penstock pipes, approximately 46 m from the powerhouse. The penstock pipe is buried over its total length. The low-pressure penstock diameter is 2.10 m, and the high-pressure section diameter 1.85 m.

The output from the El Canadá facility is stepped up from 13.8 kV to 69 kV, before it is transmitted to Santa María substation about 3.6 km away for delivery to the INDE utility grid. The transmission line poles are steel and the guard and the power cables are 636 MCM ACSR. Each pole of the transmission line is grounded to provide a resistance of not more than 10 ohms.

## 2 METHODOLOGY

### 2.1 Appointment of team members and technical reviewers

The list of involved personnel and the qualification status are summarised in the table below. The appointment certificates are included in Annex 1.

Name	Qualification	
	Position on the team	Technical areas
Richard GONZALES TOLEDO	Chief Verifier	TA 1.2
Alfonso MEDRANO GUTIERREZ	Verifier	TA 1.2
María Mercedes GARCÍA MADERO	Technical Reviewer	TA 1.2

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



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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)
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

## 2.2 Review of Documentation

The desk review involved the assessment of the following documents:

- Project documentation: PDD registered and Validation Report
- Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board.
- The monitoring plan and the applied monitoring methodology, paying close attention to the frequency of measurements, the quality of metering equipment and the quality assurance and quality control procedures.
- The data and information presented to verify their completeness, including the monitoring report and the measuring records of the different monitored parameters.
- The influence of data management and the quality assurance and quality control system on the generation and reporting of emission reductions.

A complete list of all documents reviewed is attached in section 5 of this report.

## 2.3 Site Visits

On 19-20/08/2014, the chief verifier, Richard Gonzales, visited “El Canadá Hydroelectric Project” (Registration Ref. No. 0606). The on-site visit included visits to the facilities of the project. Also, during the on-site visit the verification team was able to complete:

- An assessment of the implementation and operation of the project activity as per the registered PDD.
- A review of information flows for generating, aggregating and reporting the monitoring parameters.
- A cross-check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources.
- A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PDD and the selected methodology.
- A review of calculations and assumptions made in determining the GHG data and emission reductions.
- An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.
- Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan and the registered PDD.

## 2.4 Internal Quality Control

Following the completion of the assessment process by the verification 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 verification 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 project activity.

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### 3 POST REGISTRATION CHANGES

During the on site visit to the project activity: "El Canadá Hydroelectric Project" (Registration Ref. No. 0606) some post-registration changes were identified by the audit team.

In accordance with paragraph 265 of the CDM Project Standard version 07.0, Project Participants shall identify and document any actual or proposed changes to the operation, implementation and/or monitoring of the registered CDM project activity taking into account the types of changes described in appendix 1, which describes the types of changes that do not require prior approval by the Board.

According to Appendix 1 of the CDM Project Standard version 07, changes detected and alternatives proposed for the project do not require Prior Approval because the monitoring procedures and equipment actually installed have a higher accuracy level than the one stipulated in the applied methodologies and in the registered monitoring plan, and the monitoring equipment is under the control of the project participants.

It is AENOR opinion that no prior approval by the Board is necessary for these post registration changes and therefore, according to paragraph 142 of the CDM Project Cycle Procedure version 07.0, AENOR is submitting the post registration changes for acceptance by the Board as part of the present request for issuance of CERs for the period 23/11/2010 - 30/04/2014.

#### 3.1 Temporary deviations from the registered monitoring plan and/or applied methodology

##### 3.1.1 Description.

No temporary deviations from the registered monitoring plan and/or the applied methodology are requested.

##### 3.1.2 Assessment

Not applicable.

#### 3.2 Corrections

##### 3.2.1 Description

##### **Correction n°1: Inclusion of parameters $A_{BL}$ and $Cap_{BL}$ in the revised PDD**

During the assessment of documentation carried out in the on site visit, AENOR found that parameters  $A_{BL}$  and  $Cap_{BL}$  (parameters fixed ex ante) were not included in the registered PDD according to the applied methodology.

According to paragraph 271 of the CDM Project Standard version 07.0, the PP has prepared a revised PDD including the parameters  $A_{BL}$  and  $Cap_{BL}$  that are required by the applied methodology and were not included in the registered PDD.

##### 3.2.2 Assessment

AENOR has verified according to paragraph 1 of Appendix 1 of the CDM Project Standard version 7 that the corrections included in the revised PDD of the project activity do not affect the design of the project activity and therefore they do not require prior approval by the Board. Both corrections have been included in the revised PDD in order to comply with the applied methodology.

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Futhermore, AENOR has verified that the values included in the revised PDD for both parameters are equal to zero as it is required by the applied methodology for projects involving the construction of new hydropower plants with new reservoirs like “El Canadá Hydroelectric Project”.

### **3.3 Permanent Changes from the registered monitoring plan or applied methodology**

#### **3.3.1 Description.**

##### **Change nº1: Inclusion of parameters $A_{pj}$ and $Cap_{pj}$ in the revised PDD**

During the on site visit, AENOR found that although the PP is monitoring properly parameters  $A_{pj}$  and  $Cap_{pj}$  in order to calculate Project Emissions according to the applied methodology, both parameters are not included in the monitoring plan of the registered PDD as it is required by the methodology.

According to paragraph 277 of the CDM Project Standard version 07.0, the PP has prepared a revised PDD including the parameters  $A_{pj}$  and  $Cap_{pj}$  that are required by the applied methodology and were not included in the registered PDD.

#### **3.3.2 Assessment**

AENOR has verified according to paragraph 4 of Appendix 1 of the CDM Project Standard version 07.0 that the monitoring of parameters  $A_{pj}$  and  $Cap_{pj}$  is under control of the PP. AENOR has verified that both parameters have been correctly monitored during the current monitoring period, and therefore their inclusion in the revised PDD could be considered more like a correction than a change in the monitoring plan.

Furthermore, AENOR confirms that this change has no impact on the ERs calculation and therefore it does not require prior approval by the Board. The PDD has been revised in order to provide with more accurate information.

### **3.4 Changes to project design of registered project activity**

#### **3.4.1 Description**

No changes to the project design of the registered project activity are requested.

#### **3.4.2 Assessment**

Not applicable.

### **3.5 Changes to start date of crediting period**

#### **3.5.1 Description**

No changes to the start date of the crediting period stated in the registered PDD are requested.

#### **3.5.2 Assessment**

Not applicable.

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## 4 VALIDATION OPINION

AENOR was contracted to perform the verification of the CDM project activity: "El Canadá Hydroelectric Project" (Registration Ref. No. 0606) for the monitoring period from 23/11/2010 to 30/04/2014, and during the on site visit, some post-registration changes were identified by the audit team.

AENOR has performed the validation of the proposed changes according to the approved methodology ACM0002 version 13.0, VVS (Version 07.0), PS (version 07.0) and PCP (Version 07.0).

AENOR planned and performed its work to obtain the information and explanations considered necessary to provide sufficient evidence to give reasonable assurance that the level of accuracy of GHG emission reductions, prepared on the basis of the monitoring plan included in the revised PDD compared with registered monitoring plan of the project activity is not adversely affected. This assessment included:

- Collection of evidence supporting the reported data
- Checking whether the provisions of the revised monitoring plan, were consistently and appropriately applied.

This revision improves the accuracy of information provided and consistency in the revised PDD and the monitoring plan.

Furthermore, AENOR confirms that:

The transfer of information from the old form of the PDD registered (CDM -PDD version 04.1) to the new form under VVS track (F-CDM-PDD Version 05) is totally correct and materially the same as the information in the PDD renewed on 14/08/2013.

The proposed revision points have been described, and an assessment has been provided to substantiate the reason for each of the proposed revision points of the revised PDD and monitoring plan, using objective evidences.

The permanent changes proposed do not affect in any case to the correct fulfilment of the monitoring plan. Those changes are necessary to ensure a conservative monitoring according to the applied methodologies and tools.

The Project has correctly monitored all the parameters according to the new revised monitoring plan, applied methodology and tools in a conservative and accurate way.

For all the reasons stated above, it is AENOR opinion that no prior approval by the Board is necessary for these post registration changes and therefore, according to paragraph 142 of the CDM Project Cycle Procedure version 07.0, AENOR is submitting the post registration changes for acceptance by the Board as part of the present request for issuance of CERs for the period 23/11/2010 – 30/04/2014.

The proposed changes from the registered monitoring plan are in accordance with the approved methodology applicable to the project activity and they ensure the conservativeness of the emission reductions calculation.

Madrid, 31<sup>st</sup> October 2014



Richard Gonzales Toledo  
Chief Validator



Luis Robles Olmos  
Authorised person

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## 5 REFERENCES

1	PDD registered
2	Methodology: ACM0002 version 13.0
3	CDM Validation and Verification Standard, version 07.0.
4	Clean Development Mechanism Project Cycle Procedure, version 07.0.
5	Clean Development Mechanism Project Standard, version 07.0

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## ANNEX 1. APPOINTMENT CERTIFICATES

### CERTIFICATE OF QUALIFICATION

**Subject:** Verification and Technical Review Team for "El Canadá Hydroelectric Project"

Madrid, 28<sup>th</sup> October 2014

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

Name: **Richard Gonzales Toledo**

CDM Chief Validator: YES

CDM Validator: YES

CDM Chief Verifier: Yes

CDM Verifier: Yes

External Technical Expert: No

Technical areas related with the project activity:

T.A 1.2 Energy generation from renewable energy sources.



Luis Robles Olmos  
Climate Change Manager

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## **CERTIFICATE OF QUALIFICATION**

**Subject:** Verification and Technical Review Team for "El Canadá Hydroelectric Project"

Madrid, 28<sup>th</sup> October 2014

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

Name: **Alfonso Medrano Gutiérrez**

CDM Chief Validator: Yes

CDM Validator: Yes

CDM Chief Verifier: Yes

CDM Verifier: Yes

External Technical Expert: No

Technical areas related with the project activity:

T.A 1.2 Energy generation from renewable energy sources.



Luis Robles Olmos  
Climate Change Manager



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## **CERTIFICATE OF QUALIFICATION**

**Subject:** Verification and Technical Review Team for "El Canadá Hydroelectric Project"

Madrid, 28<sup>th</sup> October 2014

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

Name: **María Mercedes García Madero**

CDM Chief Validator: Yes

CDM Validator: Yes

CDM Chief Verifier: Yes

CDM Verifier: Yes

External Technical Expert: No

Technical areas related with the project activity:

T.A 1.2 Energy generation from renewable energy sources.



Luis Robles Olmos  
Climate Change Manager