



Monitoring report form
(Version 05.1)

Complete this form in accordance with the Attachment "Instructions for filling out the monitoring report form" at the end of this form.

MONITORING REPORT

Title of the project activity	El Canadá Hydroelectric Project
UNFCCC reference number of the project activity	0606
Version number of the monitoring report	1
Completion date of the monitoring report	08/05/2017
Monitoring period number and duration of this monitoring period	06 01/05/2014 – 31/12/2016, first and last days included
Project participant(s)	<p>Guatemala: Generadora de Occidente Ltda.</p> <p>Finland: Government of Finland - Ministry of Foreign Affairs of Finland; Fortum Corporation.</p> <p>Japan: 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 & Co., Ltd.</p> <p>Netherlands: Netherlands' Ministry of Infrastructure and the Environment (IenM); Electrabel N.V.; Netherlands' Ministry of Economic Affairs, Agriculture and Innovation (EL&I); International Bank for Reconstruction and Development (IBRD) as Trustee of the Prototype Carbon Fund (PCF)</p> <p>Norway: Government of Norway – Ministry of Foreign Affairs; Norsk Hydro ASA; Statoil ASA.</p> <p>Sweden: Government of Sweden - Swedish Energy Agency.</p> <p>France: GDF SUEZ</p> <p>Germany: RWE Power AG; Deutsche Bank AG; BP Alternative Energy International Ltd.</p>
Host Party	Guatemala: Generadora de Occidente Ltda. (GdO)
Sectoral scope(s)	Sectoral Scope 1: Energy industries (renewable/non-renewable sources)
Selected methodology(ies)	ACM0002: "Consolidated Baseline Methodology for Grid-connected Electricity Generation from Renewable

	Sources", version 13.0.0, EB 67.
Selected standardized baseline(s)	N.A.
Estimated amount of GHG emission reductions or net GHG removals by sinks for this monitoring period in the registered PDD	257,675 tCO ₂
Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period	246,627 t CO ₂

SECTION A. Description of project activity

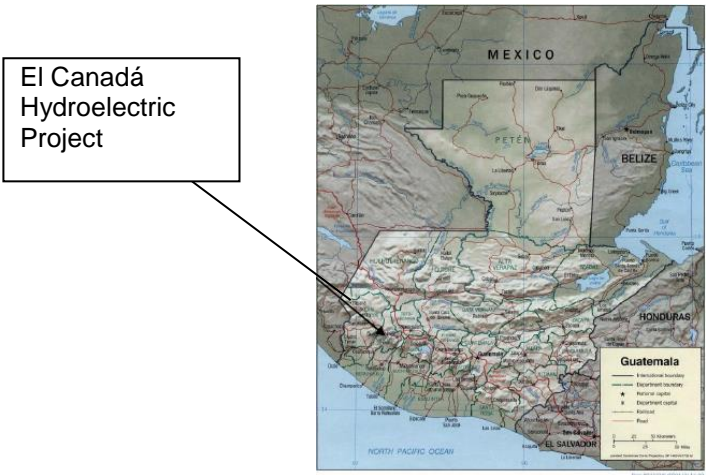
A.1. Purpose and general description of project activity

El Canadá Hydroelectric Project consists of a 48.11¹ MW peaking run-of-river hydroelectric plant located on the Samalá River on the west coast of Guatemala, near the town of Santa María de Jesus. The western Guatemala region has 350 MW of demand and 31 MW of installed capacity. Construction began in February 2002 and was completed in December 2003. The Project started commercial operation per the Wholesale Market Norms on November 23rd, 2003. Since its commissioning, it has been producing an average of 175 GWh/year of electricity, which is sold to Guatemala's largest commercial distributor, COMEGSA, under a 10-year Power Purchase Agreement (PPA). The Project contributes to the sustainable development of Guatemala in various ways. First, it has increased the supply of power to the local grid, improving stability and helping reduce losses in the distribution system. Second, it is reducing greenhouse gas emissions as well as emissions of local pollutants from power generation by using a cleaner energy source than what typically would have been used in the country. Third, it is one of the first renewable energy projects to be developed after the approval of Guatemala's new General Electricity Law. Its development has provided important knowledge and experience for other project developers that are striving to participate in the competitive national and regional market. Fourth, through the agreements the Project Company has entered into with the neighbouring municipalities, the Project is conserving sub-surface water, it has re-forested parts of the land where it was constructed, and it is making annual payments to improve the conditions of the local communities. Finally, it has created 250 jobs, injecting at least US\$ 30 million into the Guatemalan economy over the course of the construction period. The actual emissions reductions achieved during the actual monitoring period (01/05/2014 – 31/12/2016) are **246,627 t CO₂**

A.2. Location of project activity

The Project is located on the Samalá River, 12 kilometres south of the Quetzaltenango Municipality and 198 kilometres due west from Guatemala City. Quetzaltenango is Guatemala's second largest city and is responsible for a large portion of the 350 MW maximum demand of the western region. The Samalá River is nearly 130 kilometres in length, and has relatively high flows, due to intense rainstorms over the western slopes of the volcanic mountain ranges that act as the river's basin. The slopes around the Project are very steep, with small plateaus. The Project is located immediately downstream from the existing Santa María hydro powerhouse owned by the national utility, Instituto Nacional de Electrificación (INDE), and utilizes some of the existing infrastructure. The geographic coordinates for the El Canadá Power House are Latitude: 14.6857, Longitude: -91.5315.

¹ Two turbines with rated capacity of 21.95 MW each, totaling 43.9 MW for the power plant. Each generator has a nameplate capacity of 28.3 MVA with a power factor of 0.85, resulting to generators total maximum output of 48.11 MW.



A.3. Parties and project participant(s)

Party involved (host) indicates a host Party)	Private and/or public entity(ies) project participants (as applicable)	Indicate whether the Party involved wishes to be considered as project participant (yes/o)
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Party involved (host) indicates a host Party)	Private and/or public entity(ies) project participants (as applicable)	Indicate whether the Party involved wishes to be considered as project participant (yes/o)
Guatemala (host)	Generadora de Occidente, Ltda. ("GdO")	No
Finland	Government of Finland – Ministry of Foreign Affairs of Finland; Fortum Corporation	Yes
Japan	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 & Co., Ltd.	No
Netherlands	Netherlands' Ministry of Infrastructure and the Environment (IenM); Electrabel N.V.; Netherlands' Ministry of Economic Affairs, Agriculture and Innovation (EL&I); International Bank for Reconstruction and Development (IBRD) as the Trustee of the Prototype Carbon Fund (PCF)	Yes

Party involved (host) indicates a host Party)	Private and/or public entity(ies) project participants (as applicable)	Indicate whether the Party involved wishes to be considered as project participant (yes/o)
Norway	Government of Norway - Ministry of Foreign Affairs; Norsk Hydro ASA; Statoil ASA	Yes
Sweden	Government of Sweden - Swedish Energy Agency; International Bank for Reconstruction and Development (IBRD) as the Trustee of the Prototype Carbon Fund (PCF)	Yes
France	GDF Suez	No
Germany	RWE Power AG; Deutsche Bank AG; BP Alternative Energy International Ltd.	No

A.4. Reference of applied methodology and standardized baseline

Consolidated methodology for grid-connected electricity generation from renewable sources”
(ACM0002), version 13. <http://cdm.unfccc.int/methodologies/DB/M0CSBFOF8RQG5I84XU5Y4WX0I5LHS1>

“Tool to calculate the emission factor for an electricity system”, Version 3.0.0. (EB 70 Annex 22)
<http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v3.0.0.pdf>

“Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion”, Version 02.
<http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-03-v2.pdf>

A.5. Crediting period of project activity

The project is on second crediting period, which is renewable and it has 7 years length from 23/11/2010 to 22/11/2017.

A.6. Contact information of responsible persons/entities

Mr. Hector Bracamontes Hinojosa
Enel Green Power Mexico
Tel: +52 55 5083 0310
Email: hector.bracamontes@enel.com

Enel Green Power Mexico is not a project participant.

SECTION B. Implementation of project activity

B.1. Description of implemented registered project activity

El Canadá Hydroelectric Project consists of a 48.11 MW peaking run-of-river hydroelectric plant located on the Samalá River on the west coast of Guatemala, near the town of Santa María de Jesús. The western Guatemala region has 350 MW of demand and 31 MW of installed capacity. Construction began in February

2002 and was completed in December 2003. The Project started commercial operation per the Wholesale Market Norms on November 23rd, 2003.

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 m³, 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. The penstock is comprised of a low- and a high-pressure section 1590 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. El Canadá powerhouse contains two 21.95-MW units. Each generating unit has a Pelton turbine and synchronous generator. The powerhouse crane has a capacity at least equal to the heaviest lift during equipment installation of 65 tons. The control room is be air conditioned and separate from the equipment area of the powerhouse. 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.

All equipment utilized in the El Canadá Project is proven technology that has been successfully applied worldwide. Each of the two 21.95-MW generating units has a Pelton turbine and a synchronous generator. The rubber dam used in the diversion dam is a new technology introduced to Guatemala.

Rubber dam technology was chosen in order to properly regulate the level at the diversion dam considering the operational restrictions due to being downstream from the Santa Maria powerhouse.

This technology also has an added advantage during high volume situations during the wet season, the rubber dam can be deflated in order to avoid diverting mud, rocks, tree trunks, and other garbage into the desander.

There were no Major events occurred during the monitoring period

B.2. Post-registration changes

B.2.1. Temporary deviations from registered monitoring plan, applied methodology or applied standardized baseline

Not Applicable

B.2.2. Corrections

The parameters Cap_{BL} and A_{BL} were included as fixed parameters in the revised PDD and in section D.1 of this monitoring report.

B.2.3. Changes to start date of crediting period

Not Applicable

B.2.4. Inclusion of a monitoring plan to the registered PDD that was not included at registration

Not Applicable

B.2.5. Permanent changes from registered monitoring plan, applied methodology or applied standardized baseline

The parameters Cap_{PJ} and A_{pj} were included in the monitoring plan of the revised PDD and these parameters are also reported in section D.2.

B.2.6. Changes to project design of registered project activity

Not Applicable

B.2.7. Types of changes specific to afforestation or reforestation project activity

Not Applicable

SECTION C. Description of monitoring system

The monitoring of the emissions reductions was done according to the operational structure shown in the below chart. The first step is measuring process, followed by verification of the measurement, calculation of the emissions reductions, and finally, review and analysis of results. Generadora de Occidente, Ltda. General Manager will be the responsible for the monitoring process.

- The Plant Manager of El Canadá Hydroelectric Project is responsible of the electric energy measurement.
- The Marketing Analyst engineer of Generadora de Occidente, Ltda. is in charge of the monitoring process.
- The General Manager is responsible of the Monitoring Plan.

Personnel who carry out the monitoring function are trained in CDM procedures. New personnel have to follow up a training program and are formed in the specific skills required to carry out the Monitoring Plan.

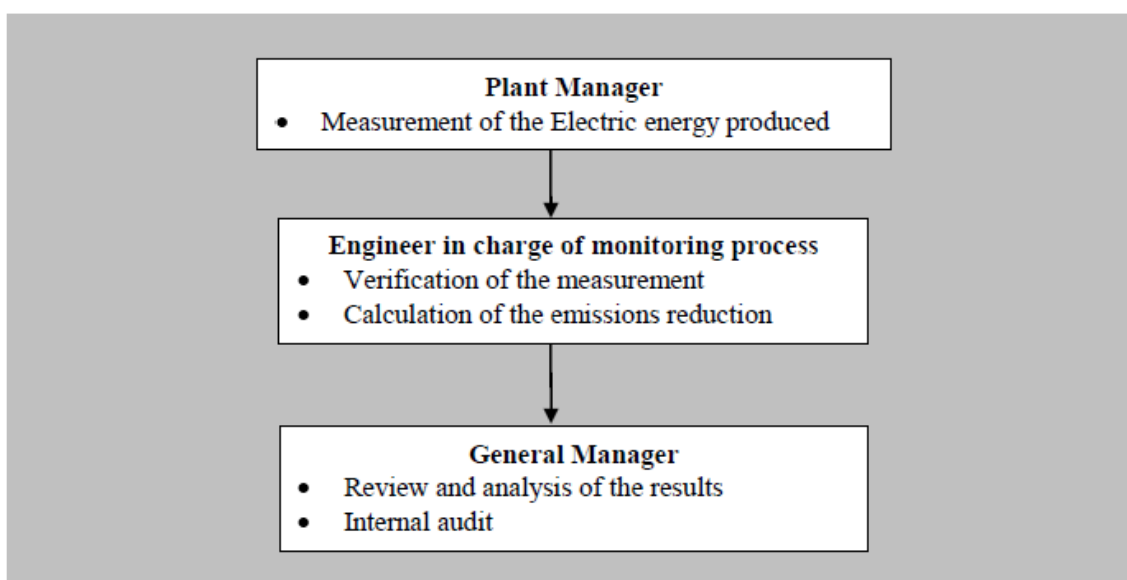


Figure 1. Information Flow Diagram

1. Measuring

The Plant Manager collects electronically and monthly the generation data from the commercial energy meter installed in the El Canadá Substation, which measures the energy produced by El Canadá Hydroelectric Project and Montecristo Hydroelectric Project. In the Montecristo Substation in the 69 KV bus is installed the energy meter of Montecristo Hydroelectric Project, therefore El Canadá Hydroelectric Project could be calculated by difference. The generation data is reported in a spreadsheet for measuring control and register. The commercial meter data collection of the monitored month takes place during the first week of the following month.

The Plant Manager collects electronically and monthly the generation data from the commercial energy meter installed in the Montecristo Substation, which measures the energy produced by Montecristo Hydroelectric Project. The generation data is reported in a spreadsheet for measuring control and register. The commercial meter data collection of the monitored month takes place during the first week of the following month.

Therefore El Canadá Hydroelectric Project could be calculated by difference. Calculated the difference the generation data is reported in a spreadsheet for measuring control and register. The commercial meter data collection of the monitored month takes place during the first week of the following month.

2. Calculation energy produced and verification

The person in charge of the monitoring process verifies the accuracy of the recorded energy data. For this purpose, is necessary to compare the data recorded against the information of the commercial measurement published by the Administrador del Mercado Mayorista (AMM) in Certificates emitted by them.

3. Calculation of emissions reductions

The person responsible of perform the Monitoring Process calculated the emissions reductions for the observation period using the ex ante emission factor according to the Table A.4.7 on the PDD

Location of monitoring points

The metering point is located at El Canadá substation, therefore the power output for El Canadá and Montecristo are monitored at El Canadá Substation as stated in the registered PDD.

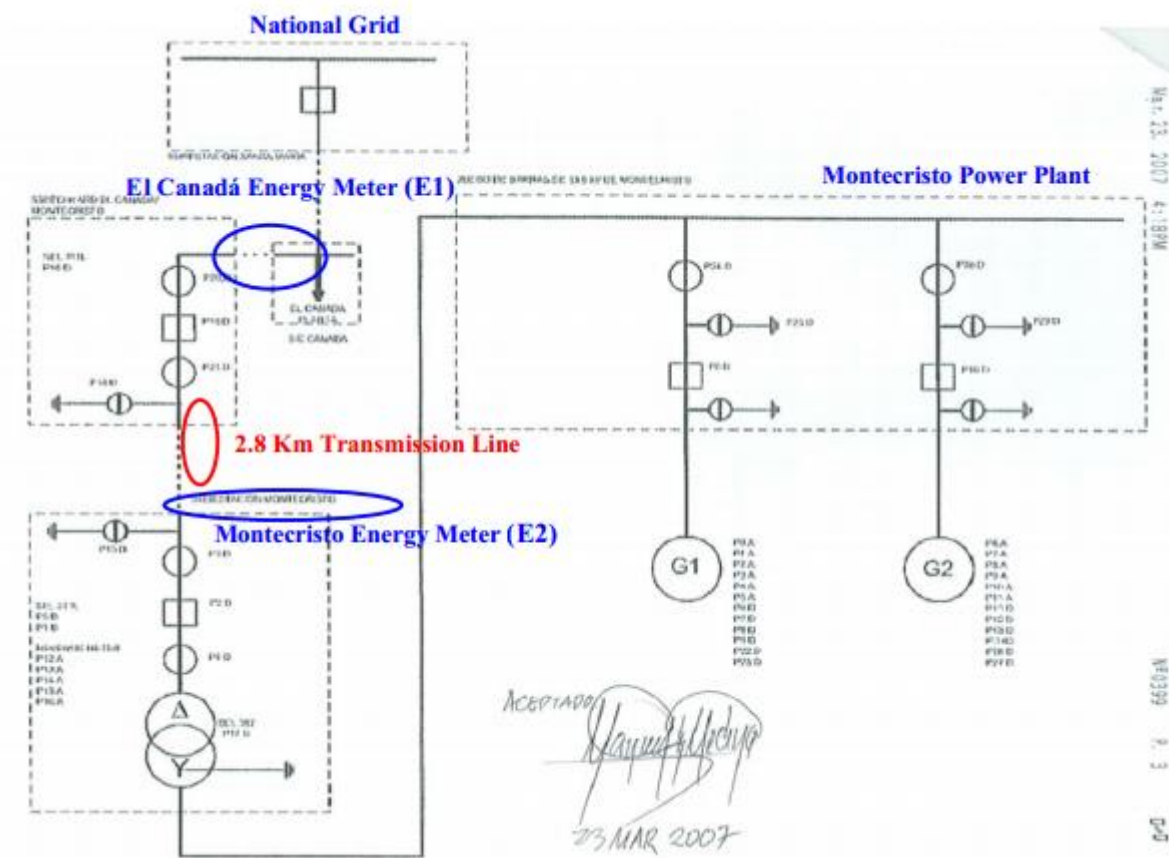


Figure 2. Monitoring System Diagram

SECTION D. Data and parameters

D.1. Data and parameters fixed ex ante or at renewal of crediting period

Data/parameter:	EF _{grid,CM,y}
Unit	tCO ₂ /MWh
Description	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".
Source of data	Calculated. Official statistics from AMM for electricity generation clustered by technology 2006, 2007, and 2008
Value(s) applied)	0.495 tCO ₂ /MWh
Choice of data or measurement methods and procedures	

Purpose of data	This value was calculated according to “Tool to calculate the emission factor for an electricity system” (version 3.0.0). Applied value was calculated by referring to Official AMM Statistics for electricity generation (2006, 2007, and 2008).
Additional comments	

Data/parameter:	Cap_{BL}
Unit	W
Description	Installed capacity of the hydro power plant before the implementation of the project activity. For new hydro power plants, this value is zero.
Source of data	Project Site
Value(s) applied)	Zero W
Choice of data or measurement methods and procedures	
Purpose of data	Calculation of project emissions
Additional comments	

Data/parameter:	A_{BL}
Unit	m ²
Description	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).
Source of data	Project Site
Value(s) applied)	Zero m ²
Choice of data or measurement methods and procedures	
Purpose of data	Calculation of project emissions
Additional comments	

D.2. Data and parameters monitored

Data/parameter:	EG PJ,y (=EG facility, y) = E1 – E2									
Unit	MWh									
Description	Net electricity supplied to the grid by the project									
Measured/calculated/default	Measured – Hourly measurement and monthly recording									
Source of data	Calculated based on measured readings of E1 and E2									
Value(s) of monitored parameter	<table><tr><td colspan="2"></td><td>01/05/2014-31/12/2016</td></tr><tr><td>Generation Measurement</td><td>MWh</td><td>498,238</td></tr></table>					01/05/2014-31/12/2016	Generation Measurement	MWh	498,238	
		01/05/2014-31/12/2016								
Generation Measurement	MWh	498,238								
Monitoring equipment	Electricity meters									
Measuring/reading/recording frequency:	Monthly									
Calculation method (if applicable):	Not applicable									

QA/QC procedures:	<p>Uncertainty of data is low as this value is calculated based on the meter readings at El Canadá and Montecristo substations.</p> <p>Electricity supplied by the project activity to the grid. Double check by receipt of sales.</p> <p>As established in the NCC14, the measurement equipment has to comply with Norms: IEC 687 or ANSI/IEEE 12.2. Its exactitude must be of 0.2%. Data Registry: The measurement equipment must register the information in periods of 15 to 60 minutes. This equipment must have a non-volatile memory that allows the storage of information for at least the last 37 days and it has to have a battery capable of keeping these data during a period of at least 7 days, in case of failure of the auxiliary power feeding. The generated energy is monitored by AMM as well as by the generator, and there is the secondary measurement equipment in case there is any divergence in the information.</p>	
Purpose of data:	Calculation of baseline emissions	
Additional comments:		

Data/parameter:	E1								
Unit	MWh								
Description	Net electricity supplied to the grid by El Canadá and Montecristo Plants measured at El Canadá substation								
Measured/calculated/default	Measured – Hourly measurement and monthly recording								
Source of data	Measured; Official metering data sent monthly to the AMM. Invoices to the final COMEGSA, a third part or the Economical Transaction Report submitted by AMM will be compared with the official data to AMM.								
Value(s) of monitored parameter	<table><tr><td colspan="2"></td><td>01/05/2014-31/12/2016</td></tr><tr><td>Generation Measurement</td><td>MWh</td><td>634,954</td></tr></table>					01/05/2014-31/12/2016	Generation Measurement	MWh	634,954
		01/05/2014-31/12/2016							
Generation Measurement	MWh	634,954							

Monitoring equipment	<p>From 18/07/2013 to 01/06/2016</p> <p>Type: Principal Meter – ION 8600 Schneider Electric Accuracy Class: +/- 0.20% Serial: MT-1206A252-01 Calibration frequency: Yearly Calibration dates: - 18/07/2013 - 17/07/2014 - 15/07/2015 - 08/11/2016</p> <p>Type: Back up Meter – ION 8600 Power Measurement Accuracy Class: +/- 0.20% Serial: PT- 0511A2048-00 Calibration frequency: Yearly Calibration dates: - 18/07/2013 - 17/07/2014 - 15/07/2015</p> <p>From 01/06/2016 to onwards</p> <p>Type: Back up Meter – ION 8650 Power Measurement Accuracy Class: +/- 0.20% Serial: MW -1605A132-02 Calibration frequency: Yearly Calibration dates: - 08/11/2016</p>
Measuring/reading/recording frequency:	Monthly
Calculation method (if applicable):	Not applicable
QA/QC procedures:	<p>Electricity supplied by the project activity to the grid. Double check by receipt of sales.</p> <p>As established in the NCC14, the measurement equipment has to comply with Norms: IEC 687 or ANSI/IEEE 12.2. Its exactitude must be of 0.2%. Data Registry: The measurement equipment must register the information in periods of 15 to 60 minutes. This equipment must have a non-volatile memory that allows the storage of information for at least the last 37 days and it has to have a battery capable of keeping these data during a period of at least 7 days, in case of failure of the auxiliary power feeding. The generated energy is monitored by AMM as well as by the Generator, and there is the secondary measurement equipment in case there is any divergence in the information.</p>
Purpose of data:	Calculation of baseline emissions
Additional comments:	

Data/parameter:	E2
Unit	MWh
Description	Net electricity supplied to the grid by Montecristo Plant measured at Montecristo substation
Measured/calculated/default	Measured – Hourly measurement and monthly recording

Source of data	Measured; Official metering data sent monthly to the AMM. Invoices to the final COMEGSA, a third part or the Economical Transaction Report submitted by AMM will be compared with the official data to AMM.						
Value(s) of monitored parameter	<table border="1"> <tr> <td colspan="2"></td><td>01/05/2014-31/12/2016</td></tr> <tr> <td>Generation Measurement</td><td>MWh</td><td>136,715</td></tr> </table>			01/05/2014-31/12/2016	Generation Measurement	MWh	136,715
		01/05/2014-31/12/2016					
Generation Measurement	MWh	136,715					
Monitoring equipment	<p>From 19/07/2013 onwards Type: Principal Meter – ION 8600 Schneider Electric Accuracy Class: +/- 0.20% Serial: MT-1206A250-01 Calibration frequency: Yearly Calibration dates: - 19/07/2013 - 18/07/2014 - 15/07/2015 - 08/11/2016</p> <p>Type: Back up Meter – ION 8600 Schneider Electric Accuracy Class: +/- 0.20% Serial: MT-1206A251-01 Calibration frequency: Yearly Calibration dates: - 19/07/2013 - 17/07/2014 - 15/07/2015 - 08/11/2016</p>						
Measuring/reading/recording frequency:	Monthly						
Calculation method (if applicable):	Not applicable						
QA/QC procedures:	<p>Electricity supplied by the project activity to the grid. Double check by receipt of sales.</p> <p>As established in the NCC14, the measurement equipment has to comply with Norms: IEC 687 or ANSI/IEEE 12.2. Its exactitude must be of 0.2%. Data Registry: The measurement equipment must register the information in periods of 15 to 60 minutes. This equipment must have a non-volatile memory that allows the storage of information for at least the last 37 days and it has to have a battery capable of keeping these data during a period of at least 7 days, in case of failure of the auxiliary power feeding. The generated energy is monitored by AMM as well as by the Generator, and there is the secondary measurement equipment in case there is any divergence in the information.</p>						
Purpose of data:	Calculation of baseline emissions						
Additional comments:	Not Applicable						

Data/parameter:	Cap_{PJ}
Unit	W
Description	Installed capacity of the hydro power plant after the implementation of the project activity

Measured/calculated/default	Default
Source of data	Project Site
Value(s) of monitored parameter	48.11 MW
Monitoring equipment	Determine the installed capacity based on recognized standards
Measuring/reading/recording frequency:	Yearly
Calculation method (if applicable):	
QA/QC procedures:	
Purpose of data:	Calculation of project emissions
Additional comments:	

Data/parameter:	A_{PJ}
Unit	m ²
Description	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.
Measured/calculated/default	Default
Source of data	Project site
Value(s) of monitored parameter	28,273.10 m ²
Monitoring equipment	Measured from topographic surveys, maps, satellite pictures, etc.
Measuring/reading/recording frequency:	Yearly
Calculation method (if applicable):	
QA/QC procedures:	
Purpose of data:	Calculation of project emissions
Additional comments:	

Calibration of energy meters

According to the NCC-14 clause 14.12 "Periodic Verifications" the participant will verify his meters to fulfil the requirement of the Administrador del Mercado Mayorista, AMM (Wholesale Market Administrator) or of the manufacturer". As a result, Generadora de Occidente, Ltda. arranges for the calibration of its energy meters, the principal meter and the support meter. Both meters thus fulfil the requirements of the norm ANSI C12.20 and they are certified by the company AMELEC.

D.3. Implementation of sampling plan

Not applicable

SECTION E. Calculation of emission reductions or GHG removals by sinks

E.1. Calculation of baseline emissions or baseline net GHG removals by sinks

>> The Plant Manager collects electronically and monthly the generation data from the commercial energy meter installed in the El Canadá Substation, which measures the energy produced by El Canadá Hydroelectric Project and Montecristo Hydroelectric Project.

Generation (MWh) from El Canadá and Montecristo plants at El Canadá Substation
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Year	01/05/2014 – 31/12/2016
Generation	634,954

The Plant Manager collects electronically and monthly the generation data from the commercial energy meter installed in the Montecristo Substation, which measures the energy produced by Montecristo Hydroelectric Project. The generation data is reported in a spreadsheet for measuring control and register. The commercial meter data collection of the monitored month takes place during the first week of the following month. From the period 01/05/2014 to 31/12/2016 the commercial energy meter installed in the Montecristo Substation registered the following information:

Generation (MWh) from Montecristo plant at Montecristo Substation	
Year	01/05/2014 – 31/12/2016
Generation	136,715

Therefore El Canadá Hydroelectric Project could be calculated by difference. The generation data is reported in a spreadsheet for measuring control and register. The commercial meter data collection of the monitored month takes place during the first week of the following month. From the period 01/05/2014 – 31/12/2016, the energy produced by El Canadá Hydroelectric Project registered the following information:

Generation (MWh) from El Canadá Hydroelectric Project	
Year	01/05/2014 – 31/12/2016
Generation	498,238

Calculation energy produced and verification

The person in charge of the monitoring process verifies the accuracy of the recorded energy data. For this purpose, is necessary to compare the data recorded against the information of the commercial measurement published by the *Administrador del Mercado Mayorista* (AMM) in Certificates emitted by them.

The measuring verification is carried out as below shown:

El Canada and Montecristo Hydroelectric Measurement Control			
Year: 2014			
Month	El Canadá and Montecristo Generation (MWh)	AMM Comercial Measurement (MWh)	El Canada an Montecristo validated generation
January			
February			
March			
April			
May	25,677	25,677	Validated
June	36,919	36,919	Validated
July	28,170	28,170	Validated
August	20,864	20,864	Validated
September	26,451	26,451	Validated
October	28,128	28,128	Validated
November	21,398	21,398	Validated
December	18,771	18,771	Validated
Annual Total	206,378	206,378	

EI Canada and Montecristo Hydroelectric Measurement Control			
Year: 2015			
Month	EI Canadá and Montecristo Generation (MWh)	AMM Comercial Measurement (MWh)	EI Canada and Montecristo validated generation
January	17,283	17,283	Validated
February	14,310	14,310	Validated
March	11,454	11,454	Validated
April	15,561	15,561	Validated
May	18,068	18,068	Validated
June	21,996	21,996	Validated
July	19,048	19,048	Validated
August	17,216	17,216	Validated
September	24,078	24,078	Validated
October	27,555	27,555	Validated
November	20,036	20,036	Validated
December	17,499	17,499	Validated
Annual Total	224,104	224,104	

EI Canada and Montecristo Hydroelectric Measurement Control			
Year: 2016			
Month	EI Canadá and Montecristo Generation (MWh)	AMM Comercial Measurement (MWh)	EI Canada and Montecristo validated generation
January	15,588	15,588	Validated
February	13,577	13,577	Validated
March	13,544	13,544	Validated
April	15,416	15,416	Validated
May	15,879	15,879	Validated
June	19,684	19,684	Validated
July	17,704	17,704	Validated
August	20,851	20,851	Validated
September	23,621	23,621	Validated
October	19,054	19,054	Validated
November	15,026	15,026	Validated
December	14,526	14,526	Validated
Annual Total	204,471	224,104	

Montecristo Hydroelectric Measurement Control			
Year: 2014			
Month	Montecristo Generation (MWh)	AMM Comercial Measurement (MWh)	Montecristo validated generation
January			
February			
March			
April			
May	5,553	5,553	Validated

June	7,965	7,965	Validated
July	6,048	6,048	Validated
August	4,486	4,486	Validated
September	5,696	5,696	Validated
October	6,101	6,101	Validated
November	4,632	4,632	Validated
December	4,097	4,097	Validated
Annual Total	44,579	44,579	

Montecristo Hydroelectric Measurement Control			
Year: 2015			
Month	Montecristo Generation (MWh)	AMM Comercial Measurement (MWh)	Montecristo validated generation
January	3,728	3,728	Validated
February	3,095	3,095	Validated
March	2,529	2,529	Validated
April	3,332	3,332	Validated
May	3,895	3,895	Validated
June	4,736	4,736	Validated
July	4,099	4,099	Validated
August	3,722	3,722	Validated
September	4,950	4,950	Validated
October	5,964	5,964	Validated
November	4,294	4,294	Validated
December	3,739	3,739	Validated
Annual Total	48,084	48,084	

Montecristo Hydroelectric Measurement Control			
Year: 2016			
Month	Montecristo Generation (MWh)	AMM Comercial Measurement (MWh)	Montecristo validated generation
January	3,325	3,325	Validated
February	2,931	2,931	Validated
March	2,937	2,937	Validated
April	3,335	3,335	Validated
May	3,442	3,442	Validated
June	4,213	4,213	Validated
July	3,791	3,791	Validated
August	4,534	4,534	Validated
September	5,085	5,085	Validated
October	4,120	4,120	Validated
November	3,220	3,220	Validated
December	3,120	3,120	Validated
Annual Total	44,053	44,053	

The person responsible of perform the Monitoring Process calculated the emissions reductions from 01/05/2014 to 31/12/2016 using the ex ante emission factor according to the Table A.4.7 on the PDD. The chart prepared for the calculation is:

El Canadá Hydroelectric Project. Second Crediting Period.			
Period	Period Validated Generation (MWh)	Emission Factor (tCO ₂ e/MWh)	Baseline Emissions (tCO ₂ e)
01/05/2014 - 31/12/2016	498,238	0.495	246,627
Total	498,238	0.495	246,627

E.2. Calculation of project emissions or actual net GHG removals by sinks

>> According to the consolidated approved methodology ACM0002 version 13.0.0, project emissions for this project are zero since the project is a hydropower plant with a run-of-river reservoir and the power density of the power plant is greater than 10W/m².

The project emissions from the run-of-river reservoir are negligible (PE_{HP,y} = 0) since the power density of the project activity is great than 10W/m².

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

$$PD = \frac{Cap_{PJ} - Cap_{BL}}{AP_J - ABL}$$

PD = Power density of the project activity (W/m²)

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

AP_J = 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 (m²)

ABL = 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 (m²).

For new reservoirs, this value is zero

The run-off river reservoir occupies an area of approximately 2.83 ha. (at maximum capacity) .The power density (PD) is calculated as follows:

$$PD = 48,110,000 / 28,273.10 = 1,701.62 \text{ W/m}^2$$

Since power density is greater than 10 W/m² the project emissions from the run-off river reservoir are negligible (PE_{HP,y} = 0)

E.3. Calculation of leakage

Not Applicable.

E.4. Summary of calculation of emission reductions or net GHG removals by sinks

Item	Baseline emissions or baseline net GHG removals by sinks (t CO ₂ e)	Project emissions or actual net GHG removals by sinks (t CO ₂ e)	Leakage (t CO ₂ e)	GHG emission reductions or net GHG removals by sinks (t CO ₂ e) achieved in the monitoring period		
				Up to 31/12/2012	From 01/01/2013	Total amount
Total	246,627				246,627	246,627

E.5. Comparison of actual emission reductions or net GHG removals by sinks with estimates in registered PDD

Item	Values estimated in ex ante calculation of registered PDD	Actual values achieved during this monitoring period
Emission reductions or GHG removals by sinks (t CO ₂ e)	257,675 t CO ₂ e	246,627 t CO ₂ e

E.6. Remarks on difference from estimated value in registered PDD

The ex-ante Emission Reductions was estimated according to the number of days equivalent to the monitoring period

For example:

$$\frac{\text{Annual ex - ante ER}}{365} * \text{Number of days in the monitoring period}$$

So, we obtain $96,463 / 365 * 975 = 257,675$ t CO₂ ex-ante for the monitoring period.

Difference between Actual value and Estimated Value from PDD is **-4.29%** change in the emission reductions.

The hydroelectrical energy generation² for Guatemala remained stable with an average decrease of 6.42%.

	2013	2014	2015	2016
Hydroelectrical Energy Generation (GWh)	4630	4825	3851	3724
Difference Generation	-	+4.2%	-20.19%	-3.30%
Average Difference 2014-2016				-6.42%

Therefore, a decrease of 4.29% in the emission reductions during the monitoring period is plausible.

² Information is for the whole year from AMM annual reports

Appendix 1.

Contact information of project participants and responsible persons/entities

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
05.1	4 May 2015	Editorial revision to correct version numbering.
05.0	1 April 2015	Revisions to: <ul style="list-style-type: none"> • Include provisions related to delayed submission of a monitoring plan; • Provisions related to the Host Party; • Remove reference to programme of activities; • Overall editorial improvement.
04.0	25 June 2014	Revisions to: <ul style="list-style-type: none"> • Include the Attachment: Instructions for filling out the monitoring report form (these instructions supersede the "Guideline: Completing the monitoring report form" (Version 04.0)); • Include provisions related to standardized baselines; • Add contact information on a responsible person(s)/ entity(ies) for completing the CDM-MR-FORM in A.6 and Appendix 1; • Change the reference number from <i>F-CDM-MR</i> to <i>CDM-MR-FORM</i>; • Editorial improvement.
03.2	5 November 2013	Editorial revision to correct table in page 1.
03.1	2 January 2013	Editorial revision to correct table in section E.5.
03.0	3 December 2012	Revision required to introduce a provision on reporting actual emission reductions or net GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB70, Annex 11).
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).
01	28 May 2010	EB 54, Annex 34. Initial adoption.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: monitoring report		