

**SMALL-SCALE CDM PROGRAMME ACTIVITY DESIGN DOCUMENT FORM
(CDM-SSC-CPA-DD) - Version 01**



**NAME /TITLE OF THE PoA: Chilean Small Hydroelectric Power Plants
Programme of Activities**



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**CLEAN DEVELOPMENT MECHANISM
SMALL-SCALE PROGRAM ACTIVITY DESIGN DOCUMENT FORM (CDM-SSC-CPA-DD)
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NOTE:

- (i) This form is for submission of CPAs that apply a small scale approved methodology using the provision of the proposed small scale CDM PoA.
- (ii) The coordinating/managing entity shall prepare a CDM Small Scale Programme Activity Design Document (CDM-SSC-CPA-DD)^{1,2} that is specified to the proposed PoA by using the provisions stated in the SSC PoA DD. At the time of requesting registration the SSC PoA DD must be accompanied by a CDM-SSC CPA-DD form that has been specified for the proposed SSC PoA, as well as by one completed CDM-SSC CPA-DD (using a real case). After the first CPA, every CPA that is added over time to the SSC PoA must submit a completed CDM-SSC CPA-DD.

¹ The latest version of the template form CDM-CPA-DD is available on the UNFCCC CDM web site in the reference/document section.

² At the time of requesting validation/registration, the coordinating managing entity is required to submit a completed CDM-POA-DD, the PoA specific CDM-CPA-DD, as well as one of such CDM-CPA-DD completed (using a real case).

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SECTION A. General description of small scale CDM programme activity (CPA)

A.1. Title of the small-scale CPA:

>>

PROJECT NAME Hydroelectric Project

Version **X** – **DD/MM/YYYY**

Document history:

n/a

A.2. Description of the small-scale CPA:

>>

The **PROJECT NAME** hydroelectric project (the Project) consists of a small-scale hydroelectric project implemented and developed by **CPA IMPLEMENTER NAME**³. The project is located in the region **REGION NAME**, near **CITY**⁴. The project considers the installation of **NUMBER AND TYPE** turbine(s) and related equipment with a combined installed capacity of **NUMBER** MW generating **NUMBER** of MWh annually with a plant load factor of **PLANT LOAD FACTOR** and operational time of **OPERATING HOURS** hours per year⁵ with the purpose of being delivered to the Central Interconnected System (SIC)⁶. The project utilises the water from the **NAME OF WATER SOURCE** with an annual average flow of **NUMBER** m³/s and a resulting water fall height of **NUMBER** m⁷.

CHOOSE APPLICABLE OPTION:

a) The Project is a run-of-river hydro plant as it:

- does not involve the construction of a storage reservoir
- involves the construction of a storage reservoir with a limited daily poundage of **NUMBER** m³.

b) The Project will have a reservoir.

- The reservoir is an existing reservoir. The volume of the reservoir is not changed.
- The reservoir is an existing reservoir. The volume of reservoir is increased. The power density of the reservoir will be **NUMBER** W/m².
- The reservoir is a newly built reservoir. The power density of the reservoir will be **NUMBER** W/m².

³ **EVIDENCE**

⁴ **EVIDENCE**

⁵ **EVIDENCE**

⁶ **EVIDENCE**

⁷ **EVIDENCE**

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The electricity generated by the small-scale CPA will displace electricity that in the absence of the programme activity would be generated by the other power plants connected to the SIC, which would result in a larger amount of greenhouse gas (GHG) emissions to the atmosphere. The expected annual emission reduction associated with this CDM program activity is **NUMBER** tons of CO₂e.

A.3. Entity/individual responsible for the small-scale CPA:

>>

The entity/individual responsible for this CPA is **CPA IMPLEMENTER NAME**.

The CPA implementer has contractually ceded their rights to claim and own emission reductions under the Clean Development Mechanism of the UNFCCC to the managing entity of the PoA⁹.

A.4. Technical description of the small-scale CPA:

A.4.1. Identification of the small-scale CPA:

The identification of the CPA can be done through the information presented in section A.4.1.2. below.

A.4.1.1. Host Party:

>>

Chile

A.4.1.2. Geographic reference or other means of identification allowing the unique identification of the small-scale CPA (maximum one page):

>>

CPA implementer: **NAME**

Address: **ADDRESS**

Contact person: **NAME** (**TITLE**)

Country: Chile

Region: **REGION**

City/Town/Community: **NEXT NEARBY CITY/TOWN/COMMUNITY**

Coordinates of the power house: **LATITUDE, LONGITUDE**

Coordinates of the water intake: **LATITUDE, LONGITUDE**¹⁰

The following figure shows the location of the power plant.

Figure 1: Location of the power plant

⁸ **EVIDENCE**

⁹ **EVIDENCE**

¹⁰ **EVIDENCE**

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[PLEASE INCLUDE IN THIS SECTION A MAP WITH THE LOCATION OF THE POWER PLANT]

A.4.2. Duration of the small-scale CPA:

A.4.2.1. Starting date of the small-scale CPA:

>>

DD/MM/YYYY

The following documents are available at the time of validation of this document:

- ☐ Purchase order of the electromechanical equipment of the project, dated **DD/MM/YYYY**
- ☐ Evidence of financial closure (**TYPE OF EVIDENCE**), dated **DD/MM/YYYY**
- ☐ Subscription of the CPA to the PoA via a contractual agreement between the CPA implementer and the CME, dated **DD/MM/YYYY**

Of the available documents the earliest is dated **DD/MM/YYYY**, which is hence determined to be the starting date of the CPA.

Therefore, the starting date of the CPA is not prior to the commencement of validation of the programme of activities (15/12/2011).

The following is a summary of the timeline of the project up to the point of writing the present document:

TIMELINE¹¹

A.4.2.2. Expected operational lifetime of the small-scale CPA:

>>

XX years

A.4.3. Choice of the crediting period and related information:

Renewable crediting period

A.4.3.1. Starting date of the crediting period:

>>

The later of **DD/MM/YYYY** or the inclusion date.

¹¹ **EVIDENCE**

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A.4.3.2. Length of the crediting period, first crediting period if the choice is renewable CP:

>>

7 years

A.4.4. Estimated amount of emission reductions over the chosen crediting period:

>>

Years	Estimation of annual emission reductions in tonnes of CO ₂ e
<u>YEAR 1</u>	<u>NUMBER</u>
<u>YEAR 2</u>	<u>NUMBER</u>
<u>YEAR 3</u>	<u>NUMBER</u>
<u>YEAR 4</u>	<u>NUMBER</u>
<u>YEAR 5</u>	<u>NUMBER</u>
<u>YEAR 6</u>	<u>NUMBER</u>
<u>YEAR 7</u>	<u>NUMBER</u>
<u>YEAR 8</u>	<u>NUMBER</u>
Total estimated reductions (tonnes of CO₂e)	<u>NUMBER</u>
Total number of crediting years	7
Annual average of the estimated reductions over the crediting period	<u>NUMBER</u>

A.4.5. Public funding of the CPA:

>>

- ☐ The Project does not receive public funding
- ☐ The Project has received / receives public funding for ACTIVITY provided by FUNDER. The funds received for the project do not constitute a diversion of official development aid¹².

A.4.6. Information to confirm that the proposed small-scale CPA is not a de-bundled component

>>

In order to ensure this SSC-CPA is not a de-bundled component of another CDM project or CPA, the coordinating entity has followed the procedures stated under “Guidance for determining the occurrence of

¹² EVIDENCE

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de-bundling under a Programme of Activities (PoA)” of the “Guidelines on Assessment of Debundling for SSC Project Activities”, Version 3.

As of **DD/MM/YYYY** the following registered small-scale CPA of a PoA, applications to register a small-scale CPA of a PoA, registered CDM project activities and large scale PoAs involving electricity generation from hydrological resources in Chile are reported on the official CDM-UNFCCC website¹³:

Ref	Name	Installed Capacity (MW)	Implementer
Registered SSC-CPAs			
SSC-CPAs applying for registration			
Registered CDM project activities			
Large scale PoAs			

Table 1: Hydro electrical CDM activities in Chile

To assure that the present CPA is not a de-bundled component of a large-scale activity and/or that it is eligible to apply small scale methodologies and procedures the following checks have been performed. (Only one check box per level may be ticked.)

- ☐ None of the implementers listed in Table 1 matches the implementer of the Project. The CPA is not a de-bundled component of a large-scale activity.
- ☐ One or more activities listed in Table 1 have the same implementer as the Project. The respective activities and distances to the Project are:

		Activity 1		Activity 2		Activity 3		Activity 4	
		Power house	Water intake	Power house	Water intake	Power house	Water intake	Power house	Water intake
Project	Power house								
	Water intake								

Table 2: Activities with the same implementer as the Project and respective distances (km)

¹³ cdm.unfccc.int

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- ☐ None of the activities listed in Table 2 is within 1 km distance of the Project's boundary¹⁴. The CPA is not a de-bundled component of a large-scale activity.
- ☐ The activities listed in Table 2 that are within 1 km distance of the Project's boundary are **ACTIVITY1, ACTIVITY2, ETC..** The accumulated installed capacity of these activities plus the Project's installed capacity is **NUMBER** MW¹⁵, which is less than the applicable small-scale threshold of 15 MW and (in the event that option A. MICROSCALE PROJECTS has been chosen in section B.3 to prove additionality) also less than the applicable micro-scale threshold of 5 MW. Therefore, the CPA is a de-bundled component of a large-scale activity but is eligible to apply small-scale methodologies and procedures and the micro-scale additionality approach and may thus be included to the PoA.

A.4.7. Confirmation that small-scale CPA is neither registered as an individual CDM project activity or is part of another Registered PoA:

>>

The CPA implementer has confirmed with a written statement that:

- They have not seriously considered grid connected electricity generation with a different technology as an alternative to the project;
- The CPA has not been and will not be registered as a single CDM project activity nor as a CPA under another PoA;
- They are aware that the CPA will be subscribed to the present PoA.¹⁶

SECTION B. Eligibility of small-scale CPA and Estimation of emissions reductions

B.1. Title and reference of the Registered PoA to which small-scale CPA is added:

>>

Chilean Small Hydroelectric Power Plants Programme of Activities

Ref: **UNFCCC REF**

B.2. Justification of the why the small-scale CPA is eligible to be included in the Registered PoA:

>>

The Project is eligible to be included to the Chilean Small Hydroelectric Power Plants Programme of Activities because (Only one check box per level may be ticked.):

- As demonstrated in section A.2. of the present CPA-DD, the CPA is:

¹⁴ **EVIDENCE**

¹⁵ **EVIDENCE**

¹⁶ **EVIDENCE**

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- ☐ a run-of-the-river hydro power plant, as characterised by the World Commission of Dams 2000: “Dams that create a hydraulic head in the river to divert some portion of the river flows. They have no storage reservoir or limited daily poundage.”¹⁷
- ☐ a hydro power plant with a reservoir and:
 - ☐ the reservoir is an existing reservoir. The volume of the reservoir is not changed.
 - ☐ the reservoir is an existing reservoir. The volume of reservoir is increased. The power density of the reservoir will be **NUMBER** W/m², which is greater than 4 W/m².
 - ☐ the reservoir is a newly built reservoir. The power density of the reservoir will be **NUMBER** W/m², which is greater than 4 W/m².
- 2. As demonstrated in section A.2. of the present CPA-DD, the installed capacity of the project is **NUMBER** MW, which is less than 15MW,
- 3. As demonstrated in section A.2. of the present CPA-DD, the plant/unit is newly built and does not involve retrofitting or modifying of an existing facility for renewable energy generation.
 - ☐ The Project does not involve the addition of renewable energy generation units at an existing renewable power generation facility.
 - ☐ The project involves the addition of renewable energy generation units at an existing renewable power generation facility that is not registered as a standalone CDM project or a CPA of a CDM Programme of Activities. The capacity of the units added by the CPA is lower than 15 MW and is physically distinct from the existing units; and
- 4. As demonstrated in sections A.2. and A.4.1.2 of the present CPA-DD, the Project will be connected to the Chilean Central Interconnected System (SIC).
- 5. As demonstrated in sections A.2 and A.4.1.2 of the present CPA-DD, the project is located in a region of Chile that is covered by the SIC.
- 6. As confirmed through water rights and land ownership documents¹⁸, the CPA implementer is the holder of the rights to utilize the water resources of the project and is the owner of the land where the project is located for the expected lifetime of the project.

¹⁷World Commission on Dams – WCD 2000. “Dams and development: a new framework for decision making”. Earthscan Publications. London, U.K: http://hqweb.unep.org/dams/WCD/report/WCD_DAMS%20report.pdf Last visited: 28/11/2011

¹⁸ **EVIDENCE**

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7. As demonstrated in section A.3. of the present CPA-DD, the implementer of the Project has contractually ceded their rights to claim and own emission reductions under the Clean Development Mechanism of the UNFCCC to the managing entity of the PoA.
8. As demonstrated in section A.4.7 of the present CPA-DD, the implementer of the Project has confirmed with a written statement that:
 - a. They have not seriously considered grid connected electricity generation with a different technology as an alternative to the project;
 - b. The CPA has not been and will not be registered as a single CDM project activity nor as a CPA under another PoA;
 - c. They are aware that the CPA will be subscribed to the present PoA.
9. As demonstrated in section A.4.2.1., the implementer of the CPA has provided documented proof for determining the starting date of the CPA and it has been confirmed that the starting date of the CPA is not prior to the commencement of validation of the programme of activities (15/12/2011).
10. As demonstrated in section D of the present CPA-DD, the CPA implementer has conducted a stakeholder consultation as per the requirements of the CDM. The stakeholder consultation was performed as described in section D.2 and compliance with the described approach was assured by APEMEC A.G. by means of the PoA management & monitoring system.
11. The CPA implementer has provided a sworn declaration that prior to the start of operations of the project he will obtain all environmental approvals as applicable to the project in accordance with Chilean environmental laws and especially with the procedures described in section C.3 of the PoA DD. The sworn declaration is part of the requirements of the Chilean DNA who, in the context of its host country approval procedures, will also monitor the compliance with the declaration at the start of operations of any CPA. More detailed information of the assessment of environmental impacts at the current stage of the CPA is provided in section C of the present CPA-DD.
12. The CPA has passed the de-bundling test described in section A.4.4.1. of the PoA-DD as demonstrated in section A.4.6. of the present CPA-DD.
13. The CPA complies with the additionality demonstration criteria presented in section E.5.2. of the PoA-DD and as demonstrated in section B.3. of the present CPA-DD.
14. The CPA implementer has provided an affirmation that funding from Annex I parties, if any, does not result in a diversion of official development assistance, as demonstrated in section A.4.5. of the present CPA-DD.
15. The CPA implementer has warranted to APEMEC A.G. via a contractual agreement that he will at all times implement, operate and maintain the project in compliance with applicable law,

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regulations and usual and prudent standards in conformity with Chilean environmental law, appropriate health, building, safety protection and other applicable or advisable requirements.¹⁹

B.3. Assessment and demonstration of additionality of the small-scale CPA , as per eligibility criteria listed in the Registered PoA:

>>

☐ **A. MICROSCALE APPROACH**

As demonstrated in section A.2 of the present PDD, the installed capacity of the CPA does or will not exceed 5 MW. As per Approach A of section E.5. of the PoA-DD, the CPA is therefore additional without need of further additionality demonstration.

☐ **B. NON-MICROSCALE APPROACH**

☐ **ALL B.x**

As demonstrated in section A.2 of the PoA-DD and section A.4.7 of the present CPA-DD, the CPA implementer is not obliged nor does he have the immediate need to generate electricity.

☐ **APPROACH B.1** is followed to demonstrate additionality.

1. The applicable benchmark is the pre-tax WACC as discussed in section E.5.1 of the PoA-DD and calculated on the basis of the following parameters:

Parameter	Value	Sources
ER		Calculated (in accordance with Approach B.1, Calculation of the Benchmark in section E.5.1 of the PoA DD) OR internal company benchmark if applicable in accordance with par. 14 of the “Guidelines on the Assessment of Investment Analysis” version 05
CD		e.g. (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks; bank financing agreement; quotation of loan terms from banks; Chilean (government) bond lending rates; typical interests for comparable loans in the same sector in Chile
E/(D+E)		e.g. (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks; bank financing agreement;

¹⁹ **EVIDENCE**

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		quotation of loan terms from banks; typical debt to equity ratios for similar projects from scientific sources; default value as per par. 18 of the “Guidelines on the Assessment of Investment Analysis” version 05
D/(D+E)		e.g. (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks; bank financing agreement; quotation of loan terms from banks; typical debt to equity ratios for similar projects from scientific sources; default value as per par. 18 of the “Guidelines on the Assessment of Investment Analysis” version 05
RfR		e.g. sovereign country debt, i.e. treasury bills or treasury bonds of a mature market (e.g. US); official publicly available data for a mature market (e.g. US)
β		e.g. rating agencies; independent financial experts; official publicly available data If no sufficient and reliable information on beta is available a conservative approach is either to use a beta value from a mature market or to set beta equal 1.
MMEP		e.g. rating agencies; independent financial experts; official publicly available data
CRP		e.g. rating agencies; independent financial experts; official publicly available data
SP		e.g. rating agencies; independent financial experts; official publicly available data
Other		tbd

Table 3: Financial parameters of the calculation of the Pre-tax WACC

The value of the benchmark, (calculated based on Approach B.1 in section E.5.1 of the PoA-DD) is **NUMBER** %.

- The Project IRR before taxes of the CPA (calculated based on Approach B.1 in section E.5.1 of the PoA DD) is **NUMBER** %. The key parameters for the calculation that have been applied and the respective sources are the following:

Parameter	Value	Unit	Sources
Total investment		USD	e.g. (Pre-) Feasibility Study revised and certified by an independent expert; (Pre-) Feasibility Study as presented to banks; quotations for major equipment; purchase orders
Date of the investment decision		dd/mm/yyyy	e.g. Purchase order of electromechanical equipment; Minutes of the board meeting when the final

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			investment decision was made; Bank loan approval
Depreciation term		years	e.g. (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks; national laws and regulations
Installed capacity		MW	e.g. (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks; quotations for electro-mechanical equipment
Yearly electricity generation		kWh/year	e.g. (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks
Plant load factor			e.g. (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks
Yearly O&M costs		USD/year	e.g. (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks
Electricity feed in tariff (including subsidies, excluding VAT)		USD/kWh	e.g. (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks; electricity sector legislation or official feed-in tariff analysis; Project PPA; feed-in tariff studies by sectoral experts
Technical lifetime of the project			e.g. Provisions for determining the technical lifetime of equipment as contained in the latest version of the CDM “Tool to determine the remaining lifetime of equipment”, according to the tool project participants may use either of the following sources for determining the technical lifetime of a project: <ul style="list-style-type: none"> - Option (a): Manufacturers information (e.g. from equipment specifications) - Option (b): Expert evaluation (e.g. feasibility study) - Option (c): Default values (for hydropower projects the default value for the technical lifetime of turbines should be used) ; National laws and regulations; (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks;
Fair value of the project at the end of the period of analysis			e.g. (Pre-) Feasibility Study prepared or revised by an independent expert; (Pre-) Feasibility Study as presented to banks; national or international accountancy standards

Table 4: Key parameters applied in the calculation of the CPA Project IRR

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3. The sensitivity analysis on electricity price, total investment and electricity generation as presented in Approach B.1 in section E.5.1 of the PoA DD yields the following results:

Project IRRs					
Sensitivity on kWh price	-10%	-5%	0%	5%	10%
without CERs					
with CERs					
Sensitivity on Investment	-10%	-5%	0%	5%	10%
without CERs					
with CERs					
Sensitivity on electricity generation	-10%	-5%	0%	5%	10%
without CERs					
with CERs					

Table 5: Sensitivity Analysis on total investment and electricity price and electricity generation

4. It can be observed that under any scenario without CER income of the sensitivity analysis the Project's IRR is lower than the applicable benchmark. Therefore, the CPA is additional.

☐ **APPROACH B.2** is followed to demonstrate additionality.

- A company inscription of the CPA implementer has been provided to the DOE, indicating the:
 - Nature of the company;
 - Organizational structure; and
 - Ownership structure²⁰
- The latest available (audited) balance sheet / A preliminary balance sheet of the CPA implementer has been provided to the DOE.²¹
- Evidence on a bank loan based on the ability of the project to generate CERs, in the form of:
 - The loan agreement; and
 - Provisions in the loan agreement or an additional official statement from the bank that the loan will not enter into force if the project is not registered as a CDM project/CPA.

has been provided to the DOE.²²

4. It is therefore demonstrated that CDM has been crucial in enabling the debt financing of the CPA, and thus the CPA is additional.

²⁰ EVIDENCE

²¹ EVIDENCE

²² EVIDENCE

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B.4. Description of the sources and gases included in the project boundary and proof that the small-scale CPA is located within the geographical boundary of the registered PoA.

>>

As stipulated in paragraph 9 of the approved small-scale methodology AMS-I.D under which the proposed PoA is being developed, “The spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the CDM project power plant is connected to”. The respective electricity is the Chilean Central Interconnected System (SIC).

The GHG emission sources included in or excluded from the project boundary are as follows:

Source		Gas	Included?	Justification / Explanation
Baseline	CO ₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity	CO ₂	Yes	Main emission source
		CH ₄	No	Minor emission source
		N ₂ O	No	Minor emission source
Project activity	For hydro power plants, emissions of CH ₄ from the reservoir	CO ₂	No	Minor emission source
		CH ₄	Yes / No	Main/Minor emission source (because the CPA involve a/no new or increased reservoir)
		N ₂ O	No	Minor emission source

Table 6. GHG Sources included within project boundary

The small-scale CPA is located in the **REGION NAME** region of Chile and is thus within the geographical boundary of the PoA.

B.5. Emission reductions:

B.5.1. Data and parameters that are available at validation:

☐ Not applicable, as the project neither involves a reservoir, nor implies capacity addition to an existing renewable energy plant/unit.

☐ The project results in a new reservoir or in the increase of an existing reservoir:

Data / Parameter:	Cap_{BL}
Data unit:	W
Description:	Installed capacity of the hydro power plant before the implementation of the project activity.
Source of data used:	SOURCE
Value applied:	VALUE. For new plants the value is 0
Justification of the choice of data or description of measurement methods	JUSTIFICATION

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and procedures actually applied :	
Any comment:	

Data / Parameter:	A_{BL}
Data unit:	m ²
Description:	Area of the reservoir measured in the surface of the water, before the implementation of the project activity, when the reservoir is full (m ²).
Source of data used:	SOURCE
Value applied:	VALUE. For new reservoirs the value is 0
Justification of the choice of data or description of measurement methods and procedures actually applied :	JUSTIFICATION
Any comment:	

Data / Parameter:	EF_{Res}
Data unit:	kgCO ₂ e/MWh
Description:	Default emission factor for emissions from reservoirs of hydro power plants
Source of data used:	Decision by EB23
Value applied:	90 kgCO ₂ e/MWh
Justification of the choice of data or description of measurement methods and procedures actually applied :	n/a
Any comment:	

☐ The project involves capacity addition to an existing renewable energy plant/unit:

Data / Parameter:	EG_{historical}
Data unit:	MWh
Description:	Annual average historical net electricity generation by the existing renewableenergy plant that was operated at the project site prior to the implementationof the project activity
Source of data used:	SOURCE
Value applied:	VALUE.
Justification of the choice of data or description of measurement methods and procedures actually applied :	JUSTIFICATION

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Any comment:	Only for CPAs that involve capacity addition to an existing renewable energy plant/unit
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Data / Parameter:	$\sigma_{\text{historical}}$
Data unit:	MWh
Description:	Standard deviation of the annual average historical net electricity generationsupplied to the grid by the existing renewable energy plant that was operatedat the project site prior to the implementation of the project activity
Source of data used:	Calculation
Value applied:	VALUE.
Justification of the choice of data or description of measurement methods and procedures actually applied :	n/a
Any comment:	Only for CPAs that involve capacity addition to an existing renewable energy plant/unit

B.5.2. Ex-ante calculation of emission reductions:

The total emission reductions of the CPA are calculated on the basis of the equations and parameters presented and explained in section E.6.1 of the PoA DD and B.5.1 and B.6.1 of this document.

Baseline emissions:

☐ **Greenfield project**

The CPA is a Greenfield hydropower project and thus the baseline emissions are determined in the following manner:

$$BE_y = EG_{BL,y} \times EF_{CO2,grid,y} \quad (1)$$

Where:

$EG_{BL,y}$ Quantity of net electricity supplied by the project to the grid in year y (MWh)

$EF_{\text{grid,CM}}$ Combined Margin Emission Factor (tCO₂/MWh)

The yearly quantity of net electricity supplied ($EG_{BL,y}$) by the CPA used in the ex-ante emission reduction calculations is obtained from the CPA's technical feasibility study. The ex-ante value is provided as value of data in the monitoring table of $EG_{BL,y}$ in section B.6.1.

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Taking into account the starting date from section A.4.2.1, an expected start of operations on DD/MM/YYYY and a 7 year crediting period, electricity generated by the project in YEAR 1 and YEAR 8 refers to the fraction of the respective year that is covered by the crediting period.

Table 7. Electricity delivered by the project

Year	YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8
EG _{BL,y} MWh/year								

☐ **Capacity addition project**

The CPA involves capacity addition to an existing facility and thus the baseline emissions are determined in the following manner:

$$BE_{CapacityAddition,CO2,y} = [EG_{BL,CapacityAddition,y}] \times EF_{CO2} \quad (2)$$

Where:

$$EG_{BL,CapacityAddition,y} = EG_{PJ,facility,y} - (EG_{historical} + \sigma_{historical}) \quad (3)$$

Where:

EG_{BL,CapacityAddition,y} Quantity of net electricity generation that is supplied to the grid as a result of the implementation of the CDM project activity in year y (MWh)

EG_{PJ,facility,y} Quantity of net electricity generation supplied to the grid by the project plant/unit in year y (MWh)

EG_{historical} Annual average historical net electricity generation by the existing renewable energy plant that was operated at the project site prior to the implementation of the project activity (MWh)

Average of historical net electrical energy levels delivered by the existing facility, spanning all data from the most recent available year (or month, week or other time period) to the time at which the facility was constructed, retrofit, or modified in a manner that significantly affected output (i.e. by 5% or more), will be used.

To determine EG_{historical}, each CPA may choose between the following two historical periods.

- (a) The five calendar years prior to the implementation of the CPA; or
- (b) The time period from the calendar year following DATE_{hist}, up to the last calendar year prior to the implementation of the project, as long as this time span includes at least five calendar years where DATE_{hist} is latest point in time between:
 - (i) The commercial commissioning of the plant/unit;
 - (ii) If applicable: the last capacity addition to the plant/unit; or
 - (iii) If applicable: the last retrofit of the plant/unit

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$\sigma_{\text{historical}}$ Standard deviation of the annual average historical net electricity generation supplied to the grid by the existing renewable energy plant that was operated at the project site prior to the implementation of the project activity (MWh).

The Electricity delivered ($EG_{PJ, \text{facility}, y}$) by the Project facility is obtained from the CPA's technical feasibility study. The ex-ante value is provided as value of data in the monitoring table of $EG_{PJ, \text{facility}, y}$ in section B.6.1.

Taking into account the starting date from section A.4.2.1, an expected start of operations on DD/MM/YYYY, and a 7 year crediting period, electricity generated by the project in YEAR 1 and YEAR 8 refers to the fraction of the respective year that is covered by the crediting period.

Table 8. Electricity delivered by the project

Year	YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8
$EG_{BL, \text{Capacity Addition}, y}$ MWh/year								

The value of the grid emission factor, calculated as per section E.6 of the PoA-DD and the data contained in Annex 3 of the present document, following the “Tool to calculate the emission factor for an electricity system” (EF tool), is the following:

$$EF_{\text{grid}, CM, y} = EF_{CO_2, \text{grid}, y} = \text{XX } tCO_2/MWh$$

Therefore, the baseline emissions for the CPA for the first crediting period are the following:

Table 9. Baseline emissions from electricity generation

Year	YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8
BE_y [tCO ₂ /year]								

Project emissions:

The only project emissions PE_y to be considered are project emissions from water reservoirs ($PE_{HP, y}$). They are determined as follows:

- ☐ The project is a run-of-the-river hydro power plant that does not have a water reservoir or only has a limited daily poundage.

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

- ☐ The CPA is a hydro power plant with a water reservoir. For hydro power project activities that result in new reservoirs and hydro power project activities that result in the increase of existing

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reservoirs, project proponents shall account for CH₄ and CO₂ emissions from the reservoir, depending on its power density. The power density of the CPA is estimated as follows:

$$PD = \frac{Cap_{PJ} - Cap_{BL}}{A_{PJ} - A_{BL}} \quad (4)$$

Where:

- 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
- A_{PJ} Area of the reservoir measured in the surface of the water, after the implementation of the project activity, when the reservoir is full (m²)
- A_{BL} Area of the reservoir 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

Therefore, applying the values and values of data respectively from sections B.5.1 and B.6.1 the power density PD = **POWER DENSITY** W/m².

- ☐ The power density of the reservoir (PD) is greater than 4 W/m² and less than or equal to 10 W/m², therefore the project emissions are calculated as follows:

$$PE_{HP,y} = \frac{EF_{Res} \cdot TEG_y}{1000} \quad (5)$$

Where:

- PE_{HP,y} Project emissions from reservoirs of hydro power plants in year y (tCO₂e)
- EF_{Res} Default emission factor for emissions from reservoirs of hydro power plants (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)

According to ACM0002 version 12.3.0, the default value for EF_{Res} is 90 kgCO₂e/MWh.

Therefore, applying the value of data for TEG_y from section B.6.1:

$$PE_{HP,y} = \text{PROJECT EMISSIONS} \text{ tCO}_2\text{e/yr}$$

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

$$PE_{HP,y} = 0 \quad (6)$$

The total project emissions are thus:

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

The ex-ante estimates of project emissions are presented in the table below:

Table 10: Project Emissions

Year	YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8
PE_y [tCO ₂ /year]								

Leakage:

- ☐ No energy generating equipment is transferred from another activity. Therefore, $LE_y = 0$.
- ☐ All or parts of the energy generating equipment are transferred from another activity. The following approach is followed to account for leakage:
DESCRIPTION OF APPROACH AND QUANTIFICATION OF LEAKAGE

Emission reductions:

Emission reductions are calculated based on the following formula:

$$ER_y = BE_y - PE_y - LE_y \quad (7)$$

Where:

ER_y Emission reductions in year y (t CO₂/y)

BE_y Baseline Emissions in year y (t CO₂/y)

LE_y Leakage emissions in year y (t CO₂/y)

PE_y Project emissions in year y (t CO₂/y)

The above equation results in the following ex-ante estimates of emission reductions of the Project during the first 7 year crediting period:

Table 11. Emission reduction from electricity generation

Year	YEAR1	YEAR2	YEAR3	YEAR4	YEAR5	YEAR6	YEAR7	YEAR8
ER_y [tCO ₂ /year]								

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B.5.3. Summary of the ex-ante estimation of emission reductions:

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Year	Estimation of project activity emissions (tonnes of CO ₂ e)	Estimation of baseline emissions (tonnes of CO ₂ e)	Estimation of leakage (tonnes of CO ₂ e)	Estimation of overall emission reductions (tonnes of CO ₂ e)
Year A				
Year B				
Year C				
Year D				
Year E				
Year F				
Year G				
Total (tonnes of CO ₂ e)				

B.6. Application of the monitoring methodology and description of the monitoring plan:

B.6.1. Description of the monitoring plan:

>>

The monitoring plan to be applied is based on the electricity delivered in MWh to the Central Interconnected System (directly or through a transmission/distribution company) by the Project.

The Project counts with proper electricity metering equipment that will be maintained in accordance with national regulations. Before the installation of the meters, they should be factory calibrated by the manufacturer. Records of the meter (type, make, model and calibration date) will be submitted to the CME. They will be calibrated according to national standards and reference points or IEC standards and recalibrated (or calibration validity and accuracy confirmed through appropriate test routines) at appropriate intervals according to national regulations.

The CPA implementer is responsible for continuously checking the metering equipment's operation and data and for keeping records of the electricity delivered to the grid. The records will be archived electronically for the entire crediting period plus two years. Once every monitoring period the CPA implementer will submit an electronic copy of the operations records to the coordinating/managing entity.

The collected and recorded data shall be cross-checked with electricity sales invoices.

Monitoring procedures have been further elaborated in documentation provided to the DOE including responsibilities, Management, Quality Assurance, Means of Verification of data, data transferring and data trails. The procedures ensure that no double accounting occurs and that the status of verification can be determined anytime for the CPA.

The parameters to be monitored are:

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Data / Parameter:	EG_{BL,y} (in case of capacity addition projects the parameter is called EG_{PJ,facility,y})
Data unit:	MWh
Description:	Quantity of net electricity supplied to the grid as a result of the implementation of the CPA in year <i>y</i> (MWh)
Source of data to be used:	Measured by electricity meter
Value of data applied for the purpose of calculating expected emission reductions in section A.4.4 of PoA_CPADD	EX ANTE VALUE
Description of measurement methods and procedures to be applied:	Measurements will be undertaken using energy meters certified to national or IEC standards. Monitoring will be continuous with hourly measurement and at least monthly recording.
QA/QC procedures to be applied:	Calibration will be undertaken as prescribed in paragraph 17 c) of “General Guidelines to SSC CDM Methodologies” version 17, i.e. calibrated according to the national standards and reference points or IEC standards and recalibrated (or calibration validity and accuracy confirmed through test routines) at appropriate intervals according to national regulations. If applicable, measurement results will be cross-checked with records for sold/purchased electricity (e.g. invoices/receipts).
Any comment:	-

Data / Parameter:	FC_{i,m,y} FC_{i,k,y}
Data unit:	Mass or volume unit
Description:	Amount of fossil fuel type <i>i</i> consumed by power unit <i>m</i> or <i>k</i> in year <i>y</i>
Source of data to be used:	Latest official data obtained from the grid’s transmission service operator CDEC-SIC and/or the National Energy Commission (CNE).
Value of data applied for the purpose of calculating expected emission reductions in section B.5	See Annex 3
Description of measurement methods and procedures to be applied:	Data obtained from official sources. The data will be updated yearly using the latest available information. Information will be used for calculating the simple adjusted OM annually during the first crediting period.
QA/QC procedures to be applied:	Information is collected from official sources and therefore no QA/QC procedures will be applied by the project participants.
Any comment:	-

Data / Parameter:	NCV_{i,y}
Data unit:	GJ / mass or volume unit
Description:	Net calorific value (energy content) of fossil fuel type <i>i</i> in year <i>y</i>

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Source of data to be used:	(a) Values provided by the fuel supplier of the power plants in invoices; or (b) Regional or national average defaults; or (c) IPCC default values at the lower limit of the uncertainty at a 95% confidence interval as provided in Table 1.2 of Chapter 1 of Vol. 2 (Energy) of the 2006 IPCC Guidelines on National GHG Inventories; or the latest update thereof.
Value of data applied for the purpose of calculating expected emission reductions in section B.5	See Annex 3
Description of measurement methods and procedures to be applied:	The data will be updated yearly using the latest available information. Information will be used for calculating the simple adjusted OM annually during the first crediting period. It will also be used for calculating the parameter $EF_{EL,m,y}$ of the annual BM calculation.
QA/QC procedures to be applied:	Information is collected from official sources and therefore no QA/QC procedures will be applied by the project participants.
Any comment:	In Chile it is uncommon that option (a) is available, and option (b) is published by the National Committee of Energy on the yearly energy balances. If option (b) is used and only GCV are available, the values will be corrected following the guidance of 2006 IPCC Guidelines for National Greenhouse Gas Inventories (vol. 2, p 1.16): “for coal and oil, the NCV is about 5 percent less than the GCV For most forms of natural and manufactured gas, the NCV is about 10 percent less” or the latest update thereof.

Data / Parameter:	$EF_{CO2,i,y}$
Data unit:	tCO ₂ /GJ
Description:	CO ₂ emission factor of fossil fuel type <i>i</i> in year <i>y</i>
Source of data to be used:	(a) Values provided by the fuel supplier of the power plants in invoices; or (b) Regional or national average defaults; or (c) IPCC default values at the lower limit of the uncertainty at a 95% confidence interval as provided in table 1.4 of Chapter 1 of Vol. 2 (Energy) of the 2006 IPCC Guidelines on National GHG Inventories; or the latest update thereof.
Value of data applied for the purpose of calculating expected emission reductions in section B.5	See Annex 3
Description of measurement methods and procedures to be applied:	The data will be updated yearly using the latest available information. Information will be used for calculating the simple adjusted OM annually.
QA/QC procedures to be applied:	Information is collected from official sources and therefore no QA/QC procedures will be applied by the project participants.
Any comment:	-

Data / Parameter:	$EF_{CO2,m,i,y}$ $EF_{CO2,k,i,y}$
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Data unit:	tCO ₂ /GJ
Description:	CO ₂ emission factor of fossil fuel type <i>i</i> used in power unit <i>m</i> or <i>k</i> in year <i>y</i>
Source of data to be used:	(a) Values provided by the fuel supplier of the power plants in invoices; or (b) Regional or national average defaults; or (c) IPCC default values at the lower limit of the uncertainty at a 95% confidence interval as provided in table 1.4 of Chapter 1 of Vol. 2 (Energy) of the 2006 IPCC Guidelines on National GHG Inventories; or the latest update thereof.
Value of data applied for the purpose of calculating expected emission reductions in section B.5	See Annex 3
Description of measurement methods and procedures to be applied:	The data will be updated yearly using the latest available information. Information will be used for calculating the simple adjusted OM annually.
QA/QC procedures to be applied:	Information is collected from official sources and therefore no QA/QC procedures will be applied by the project participants.
Any comment:	-

Data / Parameter:	EG_{m,y}
Data unit:	MWh
Description:	Net electricity generated by power plant/unit <i>m</i> in year <i>y</i>
Source of data to be used:	Latest official data obtained from the grid's transmission service operator CDEC-SIC and/or the National Energy Commission (CNE).
Value of data applied for the purpose of calculating expected emission reductions in section B.5	See Annex 3
Description of measurement methods and procedures to be applied:	Data obtained from official sources. The data will be updated yearly using the latest available information. Information will be used for calculating the simple adjusted OM annually during the first crediting period.
QA/QC procedures to be applied:	Information is collected from official sources and therefore no QA/QC procedures will be applied by the project participants.
Any comment:	-

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Data / Parameter:	$EG_{k,y}$																																		
Data unit:	MWh																																		
Description:	Net electricity generated by power plant/unit k in year y																																		
Source of data to be used:	Latest official data obtained from the grid's transmission service operator CDEC-SIC and/or the National Energy Commission (CNE).																																		
Value of data applied for the purpose of calculating expected emission reductions in section B.5	See Annex 3																																		
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QA/QC procedures to be applied:	Information is collected from official sources and therefore no QA/QC procedures will be applied by the project participants.																																		
Any comment:	-																																		
Data / Parameter:	$\eta_{m,y}$																																		
Data unit:	-																																		
Description:	Average net energy conversion efficiency of power unit m in year y																																		
Source of data to be used:	<p>a) Documented manufacturer's specifications (if the efficiency of the plant is not significantly increased through retrofits or rehabilitations); or</p> <p>b) Data from the utility, the dispatch center or official records; or</p> <p>c) The following default values as per Annex 1 of the EF tool (if available for the type of power plant):</p> <table border="1"> <thead> <tr> <th>Generation Technology</th><th>New units (after 2000)</th></tr> </thead> <tbody> <tr> <td>Coal</td><td>-</td></tr> <tr> <td>Subcritical</td><td>39%</td></tr> <tr> <td>Supercritical</td><td>45%</td></tr> <tr> <td>Ultra-supercritical</td><td>50%</td></tr> <tr> <td>IGCC</td><td>50%</td></tr> <tr> <td>FBS</td><td>-</td></tr> <tr> <td>CFBS</td><td>40%</td></tr> <tr> <td>PFBS</td><td>41.5%</td></tr> <tr> <td>Oil</td><td>-</td></tr> <tr> <td>Steam turbine</td><td>39%</td></tr> <tr> <td>Open cycle</td><td>39.5%</td></tr> <tr> <td>Combined cycle</td><td>46%</td></tr> <tr> <td>Natural gas</td><td>-</td></tr> <tr> <td>Steam turbine</td><td>37.5%</td></tr> <tr> <td>Open cycle</td><td>39.5%</td></tr> <tr> <td>Combined cycle</td><td>60%</td></tr> </tbody> </table>	Generation Technology	New units (after 2000)	Coal	-	Subcritical	39%	Supercritical	45%	Ultra-supercritical	50%	IGCC	50%	FBS	-	CFBS	40%	PFBS	41.5%	Oil	-	Steam turbine	39%	Open cycle	39.5%	Combined cycle	46%	Natural gas	-	Steam turbine	37.5%	Open cycle	39.5%	Combined cycle	60%
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Description of measurement methods and procedures to be applied:	The data for newly commissioned power plants will be updated yearly using the latest available information. The indicators for each power plant do not change for the crediting period. However, if in any given year sufficient information becomes available on fuel consumption of the respective power plant, the preferred method for estimating the EF of that power plant will be calculated on the basis of option A1 instead as a preferred calculation option. Information will be used for calculating the simple adjusted OM and the BM annually.
QA/QC procedures to be applied:	Information is collected from official sources and therefore no QA/QC procedures will be applied by the project participants.
Any comment:	-

Data / Parameter:	$\eta_{k,y}$																																		
Data unit:	-																																		
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	the basis of option A1 instead as a preferred calculation option. Information will be used for calculating the simple adjusted OM and the BM annually.
QA/QC procedures to be applied:	Information is collected from official sources and therefore no QA/QC procedures will be applied by the project participants.
Any comment:	-

Data / Parameter:	EG_{grid,h,y}
Data unit:	MWh
Description:	The total electricity generation of the electricity grid in hour <i>h</i> of year <i>y</i> .
Source of data to be used:	Latest official data obtained from the grid's transmission service operator CDEC-SIC and/or the National Energy Commission (CNE).
Value of data applied for the purpose of calculating expected emission reductions in section B.5	See Annex 3
Description of measurement methods and procedures to be applied:	Data obtained from official sources. The data will be updated yearly using the latest available information. Information will be used for calculating λ_y for the calculation of the simple adjusted OM annually during the first crediting period.
QA/QC procedures to be applied:	Information is collected from official sources and therefore no QA/QC procedures will be applied by the project participants.
Any comment:	-

- ☐ The project does not result in a new reservoir, and therefore no reservoir-related parameters are to be monitored.
- ☐ The project results in a new reservoir or in the increase of an existing reservoir. Therefore, the following parameters have to be monitored additionally to the ones above:

Data / Parameter:	TEG_y
Data unit:	MWh/yr
Description:	Total electricity produced by the project activity, including the electricity supplied to the grid and the electricity supplied to internal loads, in year <i>y</i>
Source of data to be used:	On-site measurements
Value of data applied for the purpose of calculating expected emission	To be specified for each CPA

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reductions in section B.5	
Description of measurement methods and procedures to be applied:	Measurements will be undertaken using energy meters certified to national or IEC standards. Monitoring will be continuous with hourly measurement and at least monthly recording.
QA/QC procedures to be applied:	Calibration will be undertaken as prescribed in paragraph 17 c) of “General Guidelines to SSC CDM Methodologies” version 17, i.e. calibrated according to the national standards and reference points or IEC standards and recalibrated (or calibration validity and accuracy confirmed through test routines) at appropriate intervals according to national regulations. If applicable, measurement results will be cross-checked with records for sold/purchased electricity (e.g. invoices/receipts).
Any comment:	Applicable only to CPAs with reservoirs with a power density of (PD) greater than 4 W/m ² and less than or equal to 10 W/m ²

Data / Parameter:	Cap_{BL}
Data unit:	W
Description:	Installed capacity of the hydro power plant before the implementation of the project activity.
Source of data to be used:	SOURCE
Value of data applied for the purpose of calculating expected emission reductions in section A.4.4 of PoA_CPA-DD	VALUE
Description of measurement methods and procedures to be applied:	DESCRIPTION
QA/QC procedures to be applied:	QA/QC Procedures
Any comment:	Only for CPAs that result in new reservoirs and CPAs that result in the increase of existing reservoirs

Data / Parameter:	A_{PJ}
Data unit:	m ²
Description:	Area of the reservoir measured in the surface of the water, after the implementation of the project activity, when the reservoir is full
Source of data to be	SOURCE

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used:	
Value of data applied for the purpose of calculating expected emission reductions in section A.4.4 of PoA_CPADD	VALUE
Description of measurement methods and procedures to be applied:	DESCRIPTION
QA/QC procedures to be applied:	QA/QC Procedures
Any comment:	Only for CPAs that result in new reservoirs and CPAs that result in the increase of existing reservoirs

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SECTION C. Environmental analysis

>>

C.1. Please indicate the level at which environmental analysis as per requirements of the CDM modalities and procedures is undertaken. Justify the choice of level at which the environmental analysis is undertaken:

- ☐ Please tick if this information is provided at the PoA level. In this case sections C.2. and C.3. need not be completed in this form.

The environmental analysis is undertaken at the CPA level. The environmental impact of small hydro plants depends entirely on the particular location, size and how the plant is embedded in its environment. Therefore the CPA level is the adequate choice for the environmental analysis.

C.2. Documentation on the analysis of the environmental impacts, including transboundary impacts:

>>

☐ On the DD/MM/YYYY the project received a letter from the Environmental Evaluation Service (SEIA) confirming that according to the applicable legislation in Chile the project is considered to have negligible impacts on the environment and is thus not required to undergo further environmental assessment.

☐ DESCRIPTION OF HOW ENVIRONMENTAL IMPACTS WERE ANALYZED

C.3. Please state whether an environmental impact assessment is required for a typical CPA, included in the programme of activities (PoA), in accordance with the host Party laws/regulations:

>>

Please refer to section C3 of the POA-DD which contains an analysis of relevant regulation.

SECTION D. Stakeholders' comments

>>

D.1. Please indicate the level at which local stakeholder comments are invited. Justify the choice:

- ☐ Please tick if this information is provided at the PoA level. In this case sections D.2. to D.4. need not be completed in this form.

The stakeholder comments are invited at the CPA level. The impact on the surrounding communities of small hydro plants depends entirely on the particular location, size and how the plant is embedded in its environment. Therefore, the CPA level is the adequate choice for inviting stakeholder comments.

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D.2. Brief description how comments by local stakeholders have been invited and compiled:

>>

Local stakeholder comments have been invited through:

☐ A physical stakeholder consultation was held on the DD/MM/YYYY. The meeting was held at LOCATION OF THE MEETING.

The stakeholder consultation was integrated into the stakeholder consultation process under the following Chilean national/regional permitting process: CHILEAN NATIONAL/REGIONAL PERMITTING PROCESS OR N/A

During the meeting the project was presented in an open and transparent manner that allowed the participants to understand the CDM programme activity. Following the presentation of the project the participants were invited to ask questions and provide comments.

Prior to the meeting open invitations for the meeting, including a brief description of the project and its application to the CDM, were published in the following local and regional media (e.g. local/regional newspaper, local/regional radio): LIST OF LOCAL/REGIONAL MEDIA AND PUBLICATION DATES
Additional personal invitations were sent via post and/or electronic mail to the following representatives of local and/or regional governmental and/or non-governmental institutions: LIST OF REPRESENTATIVES AND INVITATION DATES

FOLLOW UP (where adequate) EXAMPLE: Comments of stakeholders during the meeting and the respective responses and/or agreed measures were compiled in the meeting minutes. Additionally, the stakeholders were invited to provide further comments in writing at the end of the meeting and the contact details of the CPA implementer were facilitated to the stakeholders for the communication of further comments and inquiries after the meeting.

☐ A virtual stakeholder consultation was held via the publication of the project and open invitation for comments in the following local and regional media (e.g. local/regional newspaper, local/regional radio): LIST OF LOCAL/REGIONAL MEDIA AND PUBLICATION DATES

The stakeholder consultation was integrated into the stakeholder consultation process under the following Chilean national/regional permitting process: CHILEAN NATIONAL/REGIONAL PERMITTING PROCESS OR N/A

The project was described in an open and transparent manner that allowed understanding the CDM programme activity. The publication contained the contact details of the CPA implementer and an open invitation to post questions and provide comments.

Additional personal invitations were sent via post and/or electronic mail to the following representatives of local and/or regional governmental and/or non-governmental institutions: LIST OF REPRESENTATIVES AND INVITATION DATES

FOLLOW UP (where adequate) EXAMPLE: Comments received (if any) from stakeholders and the respective responses and/or agreed measures were compiled by the CPA implementer in a stakeholder consultation report that was shared with those stakeholders that had provided comments.

ADDITIONAL INFORMATION ON THE INVITATION PROCEDURE AND THE COMPILATION OF COMMENTS

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D.3. Summary of the comments received:

>>

COMMENTS RECEIVED

D.4. Report on how due account was taken of any comments received:

>>

DESCRIPTION OF DUE CONSIDERATION OF COMMENTS OR EXPLANATION WHY NO
REACTIVE MEASURES WERE REQUIRED

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Annex 1

**CONTACT INFORMATION ON ENTITY/INDIVIDUAL RESPONSIBLE FOR THE SMALL-
SCALE CPA**

Organization:	
Street/P.O.Box:	
Building:	
City:	
State/Region:	
Postfix/ZIP:	
Country:	
Telephone:	
FAX:	
E-Mail:	
URL:	
Represented by:	
Title:	
Salutation:	
Last Name:	
Middle Name:	
First Name:	
Department:	
Mobile:	
Direct FAX:	
Direct tel:	
Personal E-Mail:	

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Annex 2

INFORMATION REGARDING PUBLIC FUNDING

Annex 3

BASELINE INFORMATION

DATA USED FOR THE CALCULATION OF THE GRID EMISSION FACTOR

Annex 4

MONITORING INFORMATION
