



3RD MONITORING REPORT DAK PSI 3 AND 4 HYDROPOWER PROJECT

Document Prepared by Kyoto Energy Pte Ltd

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Prepared by	<i>Kyoto Energy Pte Ltd</i>

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PROJECT DETAILS

1.1 Summary Description of the Implementation Status of the Project

The purpose of the project activity is to generate renewable electricity from a run-of-river hydropower plant. Renewable electricity is exported to the Vietnamese national grid system and, in doing so, the project reduces greenhouse gas emissions. This is achieved by displacing generation by more traditional, fossil fuel dependent methods that lead to anthropogenic emissions of carbon dioxide and other greenhouse gasses (the baseline scenario).

The project is a run-of-river hydropower project with 2 cascades namely Dak Psi 3 and Dak Psi 4. The project has an installed capacity of 45 MW. The power generated by the project is exported to the Viet Nam national grid through a 110 kV transmission line. Details of the equipment used in the project are provided in section 3.1.

The project was registered as a CDM project (number 4891) on 06-November-2011 and started commercial operations on 09-October-2010 (Dak Psi 4) and 29-August-2012 (Dak Psi 3). The monitoring period for this report is 01-January-2015 to 31-August-2018.

The project activity has generated a total of 324,209 tCO₂e emission reductions during the current proposed VCS monitoring period.

1.2 Audit History

Audit type	Period	Program	Validation/verification body name	Number of years
Validation/Verification	09- October-2010 to 05-November-2011	VCS	KBS Certification Services Limited	1 year, 1 month
Verification	06-November-201 to 31-August-2012	CDM	KBS Certification Services Limited	10 months
Verification	01-September-2012 to 31-December-2014	VCS	Carbon Check (India) Private Limited	2 years, 4 months

Verification	01-January-2015 to 31-August-2018	VCS	Carbon Check (India) Private Limited	3 years, 8 months
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1.3 Sectoral Scope and Project Type

Sectoral scope ¹	Energy (renewable/non-renewable)
Project activity type	Renewable Energy Projects

1.4 Project Proponent

Organization name	Dak Psi Hydropower Investment and Development Joint Stock Company
Contact person	Mr. Vu Quang Bao
Title	Director
Address	Thuy dien Dak Mi 1 building, Dak Choong commune, Dak Glei district, Kon Tum province, Vietnam
Telephone	+84 59 3867070
Email	-

1.5 Other Entities Involved in the Project

Organization name	Kyoto Energy Pte. Ltd.
Role in the project	Consultant / Credit Buyer
Contact person	Mr. Michel Buron

¹ Projects, activities, or methodologies may be developed under any of the 16 VCS sectoral scopes: <https://verra.org/programs/verified-carbon-standard/vcs-program-details/#sectoral-scopes>

Title	Director
Address	2 Venture Drive #11-15 Vision Exchange, Singapore 608 526
Telephone	+44 6 38 94 97 87
Email	<u>Michel.buron@kyotoenergy.net</u>

1.6 Project Start Date

Project start date	09-October-2010
Justification	This was the day the project first started operating commercially.

1.7 Project Crediting Period

Crediting period	☐ Seven years, twice renewable ☐ Ten years, fixed ☒ Other (based on CDM crediting period)
Start and end date of first or fixed crediting period	09-October-2010 to 05-November-2018

1.8 Project Location

- (a) Host Party(ies): Socialist Republic of Viet Nam
- (b) Region/ State/ Province, etc.: Kon Tum Province
- (c) City/ Town/ Community, etc.: Dak Ha and Tu Mo Rong Districts
- (d) Physical/ Geographical location: Latitude of 14°46'30"N and longitude of 107°59'50"E

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1.10 Double Counting and Participation under Other GHG Programs

1.10.1 No Double Issuance

Is the project receiving or seeking credit for reductions and removals from a project activity under another GHG program?

☐ Yes ☒ No

1.10.2 Registration in Other GHG Programs

Is the project registered or seeking registration under any other GHG programs?

☒ Yes ☐ No

The project is registered under the Clean Development Mechanism. Details are as below:

Project Title: Dak Psi 3 and 4 Hydropower Project

Project Number: 4891

Date of Registration: 06-November-2011

1.11 Double Claiming, Other Forms of Credit, and Scope 3 Emissions

1.11.1 No Double Claiming with Emissions Trading Programs or Binding Emission Limits

Are project reductions and removals or project activities also included in an emissions trading program or binding emission limit? See the *VCS Program Definitions* for definitions of emissions trading program and binding emission limit.

☐ Yes ☒ No

If yes, provide all required evidence of no double claiming as outlined by the VCS Standard.

1.11.2 No Double Claiming with Other Forms of Environmental Credit

Has the project activity sought, received, or is planning to receive credit from another GHG-related environmental credit system? See the *VCS Program Definitions* for definition of GHG-related environmental credit system.

☐ Yes ☒ No

1.11.3 Supply Chain (Scope 3) Emissions

Do the project activities affect the emissions footprint of any product(s) (goods or services) that are part of a supply chain?

☐ Yes ☒ No

1.12 Sustainable Development Contributions

The project has positive impacts with respect to the environment (offsetting fossil fuel use and lowering greenhouse gas emissions), society (providing jobs, development of roads), technologically (technology transfer) and economy (satisfying growing energy demands to allow the country and region to develop and alleviate poverty).

Among these contributions, the avoidance of greenhouse gas emissions is quantifiable and is thus described below.

Table 1: Sustainable Development Contributions

Row number	SDG target	SDG indicator	Net impact on SDG indicator	Current project contributions	Contributions over project lifetime
1)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to avoid generation of electricity through more greenhouse gas intensive means.	For this period, a total of 324,209 tCO ₂ e have been avoided.	Avoided a total of 719,817 tCO ₂ e over the life of the project (up to and including this monitoring period).

1.13 Commercially Sensitive Information

No information has been withheld.

2 SAFEGUARDS AND STAKEHOLDER ENGAGEMENT

2.1 Stakeholder Engagement and Consultation

2.1.1 Stakeholder Identification

No changes have occurred since validation.

2.1.2 Stakeholder Consultation and Ongoing Communication

Following the initial stakeholder consultation on 09-April-2010, The project has maintained a designated representative at site responsible for receiving and acting upon any concerns raised or issues faced by the community members.

2.1.3 Free, Prior, and Informed Consent

Consultations, in line with National regulations, were conducted with local inhabitants and stakeholders involved both directly as well as through local government representation.

2.1.4 Grievance Redress Procedure

A grievance redress procedure has been implemented, where an identified company representative is available to receive and address any complaints from stakeholders.

Grievances received	Resolution and outcome
N/A	N/A as no grievances were raised.

2.1.5 Public Comments

The following comments were all raised during the stakeholder consultation meeting held on 9th April, 2010.

Summary of comments received	Actions taken
Concern regarding noise and vibration from the project	The use of advanced technology and good maintenance and operation would minimize this.
Possibility of accidents during construction and operation	Use of advanced techniques would minimize possibility of these
Concern that areas important for their landscape, historic, cultural or other value may be affected by the project	As per the EIA, no such areas were identified
Concern about visibility of the project	The location of the project is not highly visible, so no action required

2.2 Risks to Stakeholders and the Environment

	Risk identified	Mitigation or preventative measure taken
Risks to stakeholder participation	No risk identified	The stakeholder consultation was conducted following advertisement through several channels, held in an accessible location, and saw good attendance from stakeholders.
Working conditions	No risk identified	No specific risks were identified for this project. Adherence to all relevant regulations and to operational and safety best practices is upheld.
Safety of women and girls	No risk identified	The nature of the project (hydropower facilities in an isolated location), means no specific interaction with these groups occurs.
Safety of minority and marginalized	No risk identified	The nature of the project (hydropower facilities in an

groups, including children		isolated location), means no specific interaction with these groups occurs.
Pollutants (air, noise, discharges to water, generation of waste, release of hazardous materials)	The plant uses the lubricants for equipment, water for cooling equipment and water for domestic use for the workers	Restrict the waste, oil waste discharge from the plant to Dak Psi river to prevent contaminating the water resource. Construct tanks to collect the waste oil, to treat the waste water from equipment and daily activities

2.3 Respect for Human Rights and Equity

2.3.1 Labor and Work

Discrimination and sexual harassment	No instances have occurred during the life of the project.
Management experience	NA
Gender equity in labor and work	The project owner has complied with national regulations and laws which stipulate gender equality in wages, recruitment, and all other aspects of employment ²
Human trafficking, forced labor, and child labor	All employment follows national regulations and laws

2.3.2 Human Rights

No human right risks were identified for the project. As a low-impact energy facility operating in an isolated area, interactions with people outside those directly working with the project are limited. For those involved in the project, strict compliance with labour laws ensures protection of rights.

² Vietnam Labor Code 2012, Article 4.7, Article 90.3, Article 154.1

2.3.3 Indigenous Peoples and Cultural Heritage

NA due to nature of the project.

2.3.4 Property Rights

Disputes over rights to territories and resources	N/A
Respect for property rights	N/A

2.3.5 Benefit Sharing

Summary of the benefit sharing plan	N/A
Benefit sharing during the monitoring period	N/A

2.4 Ecosystem Health

	Risk identified	Mitigation or preventative measure taken during the monitoring period
Impacts on biodiversity and ecosystems	No risk identified	N/A as no vulnerabilities identified during environmental approval
Soil degradation and soil erosion	No risk identified	Adherence to construction and operational best practices
Water consumption and stress	No risk identified	Following operational regime to avoid adverse effects
Usage of fertilizers	No risk identified	N/A

2.4.1 Rare, Threatened, and Endangered species

As described in the registered Project Description, the project area is devoid of any rare, threatened, or endangered animals and plants.

2.4.2 Introduction of species

N/A

2.4.3 Ecosystem conversion

N/A

3 IMPLEMENTATION STATUS

3.1 Implementation Status of the Project Activity

The project has been operational since 09-October-2010.

The electricity generated from the hydropower plant is connected to the National Grid through a new 110 kV single circuit transmission line from 110 kV Transformer Station.

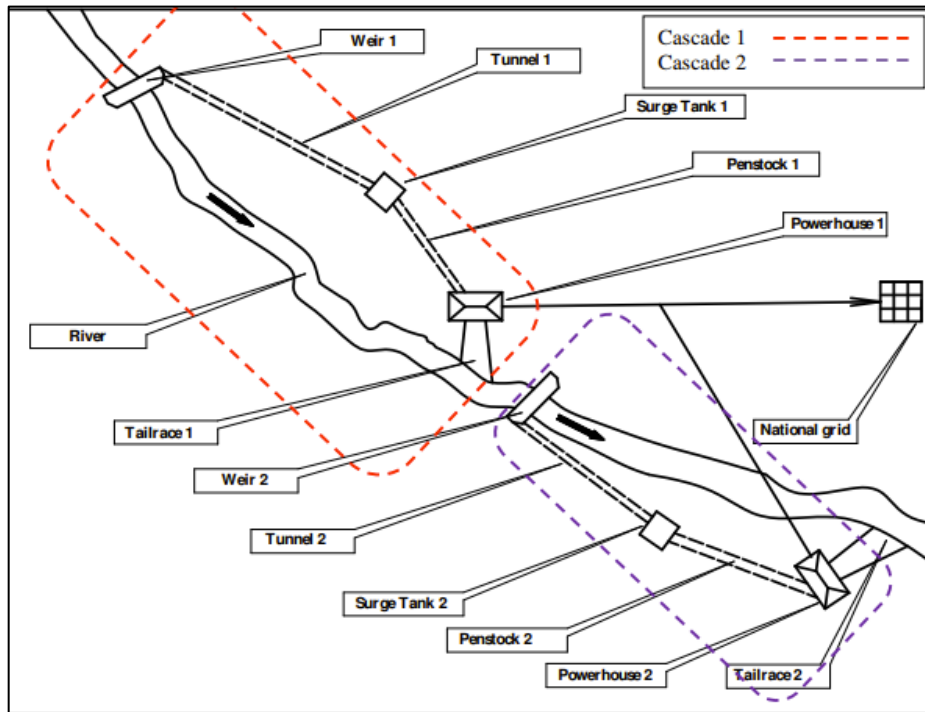


Figure 1: Project Overview

The project activity has a total installed capacity of 45 MW, with the Dak Psi 3 Cascade with 3 units each with an installed capacity of 5 MW and the Dak Psi 4 Cascade with 3 units each with an installed capacity of 10 MW.

The key equipment utilized in the project is described in the table below:

Table 2 : Key technologies utilized

Dak Psi 3	Item	Specification
Turbine	Model	Francis Turbine- horizontal axis
	Quantity	3
	Capacity	5.208 MW
	Rate speed	500 rpm
Generator	Model	3 phase synchronization with horizontal axis
	Quantity	3
	Capacity	5 MW
	Rated speed	500 rpm

Dak Psi 4	Item	Specification
Turbine	Model	Francis Turbine, horizontal axis
	Quantity	3
	Capacity	10.3093 MW
	Rate speed	500 rpm
Generator	Model	3 phase synchronization with horizontal axis
	Quantity	3
	Capacity	10 MW
	Rated speed	500 rpm

No specific events have taken place during this monitoring period.

3.2 Deviations

3.2.1 Methodology Deviations

None.

3.2.2 Project Description Deviations

None.

3.3 Grouped Projects

N/A as not a grouped project.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes ☒ No

4 DATA AND PARAMETERS

4.1 Data and Parameters Available at Validation

Data / Parameter	EF _{grid,CM,y}
Data unit	tCO ₂ /MWh
Description	Combined margin CO ₂ emission factor for grid connected power generation
Source of data	As per “Tool to calculate the emission factor for an electricity system” and Combined Margin defined in issued “Study, Definition of Viet Nam Grid Emission Factor, 2009 by the Department of Meteorology, Hydrology and Climate and issued by DNA
Value applied	0.5764
Justification of choice of data or description of measurement methods and procedures applied	Calculated as per “Tool to calculate the emission factor of an electricity system”
Purpose of Data	Calculation of baseline emissions
Comments	-

Data / Parameter	EF _{Res}
Data unit	kg CO ₂ e/MWh
Description	Default emission factor for emission from reservoirs
Source of data	Decision by EB23
Value applied	90
Justification of choice of data or description of measurement methods and procedures applied	As per methodology
Purpose of Data	Calculation of baseline emissions
Comments	-

Data / Parameter	CAP _{BL}
Data 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 applied	0
Justification of choice of data or description of measurement methods and procedures applied	This is a greenfield power plant
Purpose of Data	Calculation of baseline emissions
Comments	-

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	Project site

Value applied	0
Justification of choice of data or description of measurement methods and procedures applied	This is a greenfield power plant with new reservoirs.
Purpose of Data	Calculation of baseline emissions
Comments	-

4.2 Data and Parameters Monitored

Data / Parameter	EG _{facility,y}	
Data unit	MWh	
Description	Quantity of net electricity generation supplied by the project plant/unit to the grid in year y	
Source of data	Project activity site	
Description of measurement methods and procedures to be applied	Bi-directional electricity meters to account for both export and import to arrive at net electricity	
Frequency of monitoring/recording	Continuous measurement and at least monthly recording	
Value monitored	Year	Generation (MWh)
	2015	126,409
	2016	153,611
	2017	181,028
	2018	101,425
	Total	562,472
Monitoring equipment	Main meter (MM) and backup meters (BM1 and BM2) in case of failure See Appendix 1 for details.	
QA/QC procedures to be applied	Cross check measurement results with records for sold	

	and purchased electricity. Meters calibrated at least every two years ³ .
Purpose of the data	Calculation of baseline emissions
Calculation method	-
Comments	-

Data / Parameter	CAP _{PJ}
Data unit	W
Description	Installed capacity of the hydro power plant after the implementation of the project activity
Source of data	Project Site
Description of measurement methods and procedures to be applied	Determine the installed capacity based on recognized standards (Name plates of generating equipment)
Frequency of monitoring/recording	Yearly
Value monitored	45,000,000
Monitoring equipment	N/A
QA/QC procedures to be applied	-
Purpose of the data	Calculation of project emissions
Calculation method	Not applicable
Comments	-

Data / Parameter	A _{PJ}
Data unit	m ²
Description	Surface area of the reservoir measured after the implementation of the project activity, when the reservoir is full (m ²)
Source of data	Project Site
Description of measurement methods	Measured from satellite pictures

³ Following the first CDM verification, calibration frequency of once in two years as per decision no. 25/2007/QD-BKHCHN has been adopted.

and procedures to be applied	Yearly measurement	
Frequency of monitoring/recording	Annual measurement	
Value monitored	2015	463,800
	2016	468,300
	2017	471,100 ⁴
	2018	462,200
Monitoring equipment	N/A	
QA/QC procedures to be applied	-	
Purpose of the data	Calculation of project emissions	
Calculation method	Not applicable	
Comments	-	

4.3 Monitoring Plan

The system is composed of three energy meters (1 main and 2 backups) belonging to the grid operator and used as the source of data for the calculation of emission reductions.

The location of each instrument is indicated schematically in the monitoring diagram shown in Figure 4.

⁴ For the sake of conservativeness, the highest value was rounded up to the design value of 475,000 m² for the Power Density calculation

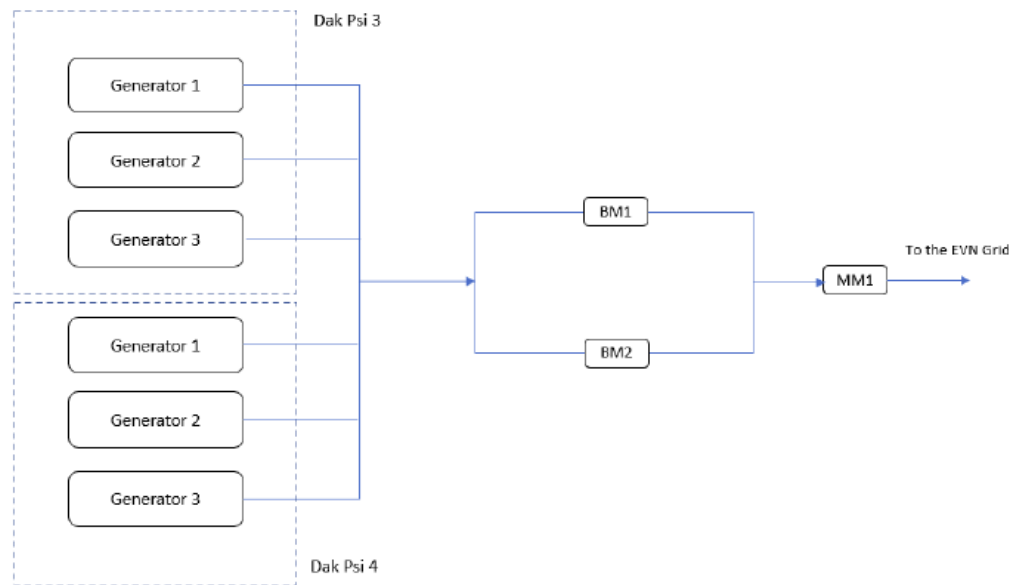


Figure 2: Schematic representation of the meters location on the electric circuit

Organizational structure, responsibilities, and competencies.

The monitoring team is composed of the following staff:

Report to:	Position
Dak Psi Hydropower Investment and Development Joint Stock Company	Site manager
	Site supervisor
	Operator Head of Shift
	Operators (3 per shift)
Kyoto Energy Pte Ltd	CDM Consultant/ Project manager

Table 2: CDM Monitoring Team Details

#	Tasks description (and frequency)	Operator	Supervisor	Site manager / Project director	CDM consultant Project manager
Monitoring activity					
1	Recording of manual data	✓			
Quality Assurance & Quality Control					
2	Verification of data monitored (consistency and completeness)		✓		
3	Ensuring adequate training of staff		✓		
4	Ensuring adequate maintenance		✓		
	Ensuring calibration of monitoring instruments		✓		
5	Data archiving: ensuring adequate storage of data monitored (integrity and backup): 2 years after the end of the crediting period			✓	
6	Identification of non-conformance and corrective/preventive actions and monitoring plan improvement		✓		
7	Emergency procedures		✓		
8	External audit				✓
Calculation of GHG emission reductions and reporting					
9	Processing of data and calculation of emission reductions			✓	
10	Monitoring report: management review of monitoring report (internal audit)			✓	

Table 3: Allocation of monitoring responsibilities

The monitoring staff are trained engineers and/or technicians who are well versed with the operations of the power plant and are responsible for monitoring not only for the purposes of emission reduction accounting but also for the sale of electricity which is the core business of the facility. In addition to technical knowledge and experience, annual training is given to the monitoring team to teach/refresh the procedures for monitoring in accordance with the monitoring plan.

Description of methods for generating, recording, storing, aggregating, collating and reporting data on monitored parameters

The log files are kept for a minimum of 2 years after the end of the last crediting period by using paper documents and electronic files.

The log files are stored on various media (CD-ROM and hard disks) at several locations (plant, headquarters and consultant server).

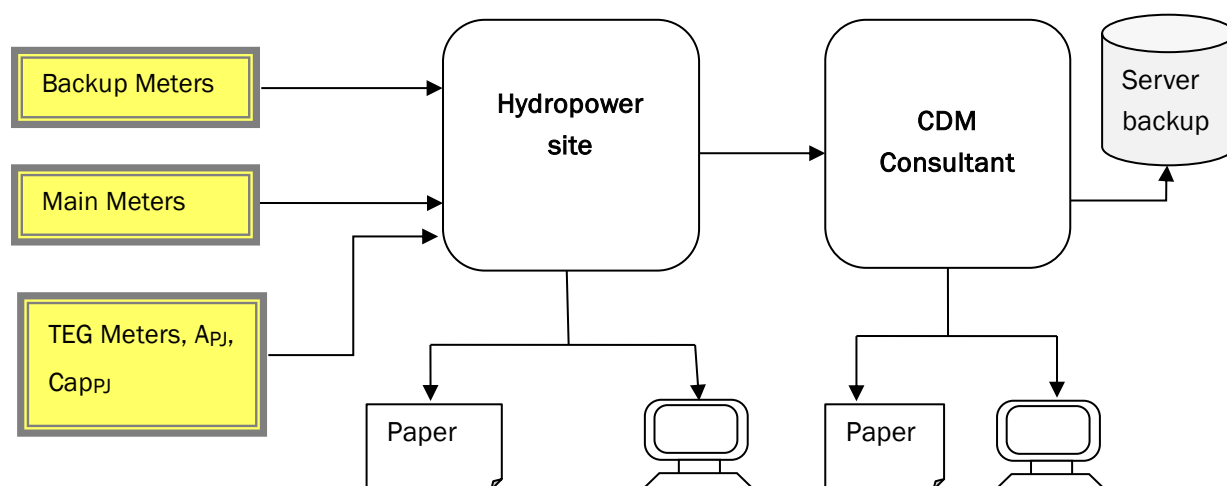


Figure 3: Monitoring data flow chart

The daily internal record procedure is as follows: Everyday at midnight the operator on duty takes the current reading of the 3 main meters and records the values.

The preparation of the EVN receipt is as follows: At the end of every month, representatives of the project and of Central Power Company come to the site. The meters keep in their memory the values recorded at the end of the last day of previous month, so that they can take a joint reading and prepare the receipt together. Readings are taken for both main and backup meters. The sale receipt prepared at the site serves as basis for the payment.

The external audit was performed by the consultant for the crediting period. The internal audit of the monitoring report was performed by the responsible entity of the project participant.

Internal auditing and non-conformities

Internal auditing:

- **Data treatment and verification:**

A verification of the data recorded was performed by:

- The spot check of field instruments by staff; and

- The comparison between the main meter and backup meters.
- **Maintenance and calibration of monitoring instrument:**
Calibration takes place to ensure that the monitoring equipment is correctly installed and functioning properly.

Non-conformities

Non-conformities are internally defined as any incidents affecting the project's monitoring. (e.g.: calibration delay, data loss, instrument malfunction, change in project implementation, etc.) They feature various severities and some of them may lead to data reconstruction (emergency procedure), request for deviation or revision of the monitoring plan, whereas some others may not require any particular corrective measures (e.g.: temporary grid outage).

In the event that the metering system suffers any failure, damage and unexpected problems, or if any errors in the main metering systems are detected during calibration, the electricity exported will be identified as follows.

- Using the results of the backup system
- Should the backup system also suffer a breakdown, the electricity exported is proposed by reconstructing data by means of trend analysis (taking a conservative approach)

The above is also in line with the procedures stipulated in the power purchase agreement (PPA).

5 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

5.1 Baseline Emissions

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

Since: $EG_{PJ,y} = EG_{facility,y}$

Hence: $BE_y = EG_{facility,y} * EF_{grid,CM,y}$

Where:	Description	Units	ID/value
BE_y	Baseline Emissions	tCO _{2e}	324,209
$EG_{facility,y}$	Quantity of net electricity generation supplied by the project plant/unit to the grid during the current monitoring period	MWh	562,472
$EF_{grid,CM,y}$	CO ₂ emission factor in year y	tCO _{2e} /MWh	0.5764

5.2 Project Emissions

Power density: $PD = \frac{Cap_{PJ} - Cap_{BL}}{A_{PJ} - A_{BL}}$			
Where:	Description	Units	ID/value
PD	Power density of the project activity	W/m ²	94.7
Cap_{PJ}	Installed capacity of the hydropower plant after the implementation of the project activity	W	45,000,000
Cap_{BL}	Installed capacity of the hydropower plant before the implementation of the project activity (W). For new hydropower plants, this value is zero	W	0
A_{PJ}	Area of the reservoirs measured in the surface of the water, after the implementation of the project activity, when the reservoirs are full	m ²	475,000
A_{BL}	Area of the reservoirs measured in the surface of the water, before the implementation of the project activity, when the reservoirs are full (m ²). For the new reservoir, this value is zero	m ²	0

5.3 Leakage Emissions

As per the registered methodology, no leakage emissions are to be considered.

$$LE_y = 0$$

5.4 GHG Emission Reductions and Carbon Dioxide Removals

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCU (tCO ₂ e)	Removal VCU (tCO ₂ e)	Total VCUs (tCO ₂ e)
01-Jan-2015 to 31-Dec-2015	72,862	0	0	72,862	0	72,862
01-Jan-2016 to 31-Dec-2016	88,541	0	0	88,541	0	88,541
01-Jan-2017 to 31-Dec-2017	104,344	0	0	104,344	0	104,344
01-Jan-2018 to 31-Dec-2018	58,461	0	0	58,461	0	58,461
Total	324,209	0	0	324,209	0	324,209

Vintage period	Ex-ante estimated reductions/removals	Achieved reductions/removals	Percent difference	Explanation for the difference
01-Jan-2015 to 31-Dec-2015	98,423	72,862	-26%	Normal variations due to rainfall
01-Jan-2016 to 31-Dec-2016	98,693	88,541	-10%	Normal variations due to rainfall
01-Jan-2017 to 31-Dec-2017	98,423	104,344	6%	Overperformance is within the expected variation due to rainfall. In 2017, rainfall in the vicinity of the facility

				was significantly higher than in the previous years
01-Jan-2018 to 31-AUG-2018	65,256	58,461	-10%	Normal variations due to rainfall
Total	360,794	324,209	-10%	Normal variations due to rainfall

APPENDIX 1: COMMERCIALY SENSITIVE INFORMATION

N/A

APPENDIX 2: CALIBRATION INFORMATION

Meter Id	Tag	Model, Serial number and manufacturer	Accuracy Class	Date of Initial Calibration (prior to calibration period) ⁵	Date of Subsequent Calibration	Validity Date of Calibration	Event
Main meter	MM1	Manufacturer: Elster Model: A1700 Serial: 10001847	0.2S	23/07/2014	25/07/2016 ⁶ , 24/07/2017, 21/05/2019	21/05/2021	-
Backup Meter	BM1	Manufacturer: Elster Model: A1700 Serial: 1131803	0.5S	23/07/2014	25/07/2016, 24/07/2017, 21/05/2019	21/05/2021	-
Backup Meter	BM2	Manufacturer: Elster Model: A1700 Serial: 1131804	0.5S	23/07/2014	25/07/2016, 24/07/2017, 21/05/2019	21/05/2021	-

⁵ Calibration frequency is 2 years as per decision no. 25/2007/QD-BKHCN, dated 05/10/2007

⁶ The calibration in 2016 was late leading to two days of operation in July 2016 without valid calibration. As a conservative measure a 2% reduction in generation and a 2% increase in consumption was applied to the monitored values for the whole month of July 2016