



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	Bailongjiang Dalijie Hydropower Station	
UNFCCC reference number of the project activity	2848	
Version number of the monitoring report	1	
Completion date of the monitoring report	01/12/2015	
Monitoring period number and duration of this monitoring period	6 th , 30/12/2013-29/12/2014	
Project participant(s)	China: GEPIC Darong Electric Power Company Ltd Netherlands: Vattenfall Energy Trading Netherlands N.V.	
Host Party	China	
Sectoral scope(s)	Scope 1 : Energy industries (renewable - / non-renewable sources)	
Selected methodology(ies)	ACM0002 ver. 7 - Consolidated methodology for grid-connected electricity generation from renewable sources	
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	138,919tCO ₂ e	
Total amount of GHG emission reductions or net GHG removals by sinks achieved in this monitoring period	GHG emission reductions or net GHG removals by sinks reported up to 31 December 2012	GHG emission reductions or net GHG removals by sinks reported from 1 January 2013 onwards
	N.A.	111,255tCO ₂ e

SECTION A. Description of project activity

A.1. Purpose and general description of project activity

>> The Bailongjiang Dalijie Hydropower Station (hereafter, the project) developed by GEPIC Darong Electric Power Company Ltd. (hereafter, the project owner) is a run-of-river hydropower project in Gansu Province, the People's Republic of China. Total installed capacity of the project is 40.2MW, consisting of three 13.4MW turbines.

The purpose of the project is to utilize the hydrological resources of the Bailongjiang River through construction of a run-of-river hydro project to generate electricity for the Gansu Power Grid, which is a part of the Northwest China Power Grid (hereafter, the NWCPG). The electricity currently generated by the NWCPG is relatively carbon intensive. The project is therefore expected to reduce emissions of greenhouse gases by reducing the need of thermally generated power and reducing needed capacity expansion of fossil fuel-based generation of the NWCPG.

The project installs 3 units of 13.4MW turbine-generators providing a total installed capacity of 40.2MW, with average annual operating hours of 4,075h, and the average annual generation of 163,800MWh, the power supplied is estimated to be 163,472MWh. The implementation of the project is listed in Table A.1.

Table A.1 The implementation of the project

Key events	Date
Starting date of the project, on which date the project owner signed the construction contract	10/11/ 2006
Construction started	12/12/2006
The generator #1 started operation	04/09/2009
The generator #2 started operation	22/09/2009
The generator #3 started operation	17/10/2009
Registration date(Start of crediting period)	06/12/2009
1 st monitoring period	06/12/2009-29/05/2010
2 nd monitoring period	30/05/2010-29/01/2011
3 rd monitoring period	30/01/2011-28/11/2011
4 th monitoring period	29/11/2011-31/12/2012
5 th monitoring period	01/01/2013-29/12/2013
6 th monitoring period	30/12/2013-29/12/2014

From 30/12/2013-29/12/2014 (total 365 days), the project has a total actual net electricity exported to the grid of 130,919.303MWh, corresponds to the emission reductions of 111,255tCO₂e.

A.2. Location of project activity

>> Lijie Village, Lijie Township, Zhouqu County, Tibetan Autonomous Prefecture of Gannan, Gansu Province, the People's Republic of China.

The geographical coordinates of the dam are 104°02'11" E and 33°53'18" N, and the geographical coordinates of the powerhouse are 104°03'23" E and 33°53'46" N.

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/no)
The People's Republic of China (host)	GEPIC Darong Electric Power Company Ltd	No
The Netherlands	Vattenfall Energy Trading Netherlands N.V.	No

A.4. Reference of applied methodology and standardized baseline

>>

1. The baseline and monitoring methodology ACM0002 is used: "Consolidated baseline methodology for grid-connected electricity generation from renewable sources" version 07, http://cdm.unfccc.int/filestorage/C/D/M/CDMWF_AM_323M30IDF1IH6AG3GRCJ4PKR9CKM7P/ACM0002_ver07.pdf?t=VUZ8bWdweHkzfDB_8lh0VRzzhpKw-b635j5e.
2. "Tool to calculate the emission factor for an electricity system" version 01.1, <http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v1.1.pdf>.
3. "Tool for demonstration and assessment of additionality", Version 05.2, <http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v5.2.pdf>.

A.5. Crediting period of project activity

>> The crediting period is fixed crediting period (10 years) from 06/12/2009 to 05/12/2019.

A.6. Contact information of responsible persons/entities

>>

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Email: gsdrctdm@163.com

Address: F19, Gansu Investment Building, No.69, Hedong Rd., Chengguan District, Lanzhou, Gansu, China

SECTION B. Implementation of project activity**B.1. Description of implemented registered project activity**

>> The project started to construction from 12/12/2006, and has been commissioning since 04/09/2009 and was put into full operation on 17/10/2009. The generator #1 started operation on 04/09/2009, the generator #2 started operation on 22/09/2009, and the generator #3 started operation on 17/10/2009.

The project is a run-of-river hydropower plant, which is composed of a concrete gravity dam, release sluice, channels, powerhouse, and switch station. The electricity for the project is generated by three units of HLA551C-LJ-272 turbines and three units of SF-J13.4-36/5100 generators. The annual power generation is expected to be approximately 163,800MWh over an expected operational lifetime of 25 years. The power is delivered to the Gansu Power Grid (which is a part of the NWCPG) via 110kV line to a designated transformer station. The technical process is indicated in the Figure B.1.

No events or situations that occurred during the monitoring period, which may impact the applicability of the methodology.

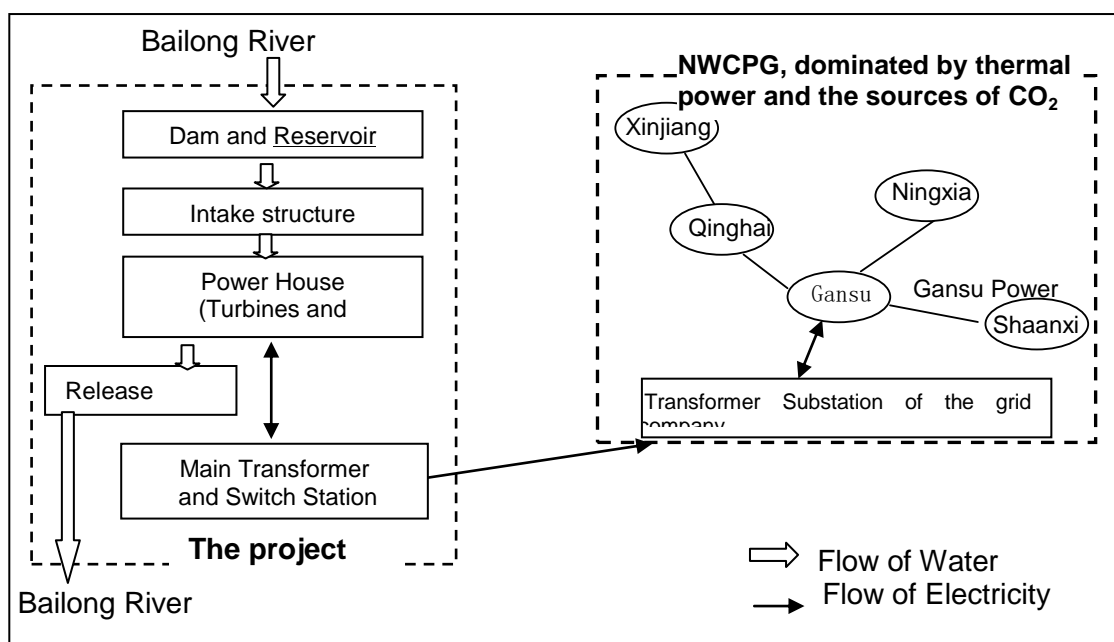


Figure B.1 The diagram of technology of the project

B.2. Post-registration changes

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

>> Not any temporary deviations have been applied during this monitoring period.

B.2.2. Corrections

>> Not any corrections to project information or parameters fixed at validation have been approved during this monitoring period or submitted with this monitoring report.

B.2.3. Changes to start date of crediting period

>> Not any changes to the project design of the project activity have been approved during this monitoring period or submitted with this monitoring report.

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

>> N.A.

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

>> Not any changes to the project design of the project activity have been approved during this monitoring period or submitted with this monitoring report.

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

>> Changes (based on the type and parameter of generators and turbines) from project activity as described in the registered PDD has been submitted to the EB with the reference No. of PRC-2848-001, and been accepted on 15/11/2012.

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

>> N.A.

SECTION C. Description of monitoring system

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Data collection procedures:

As the Figure C.1 indicated, monitoring data are monitored at these points.

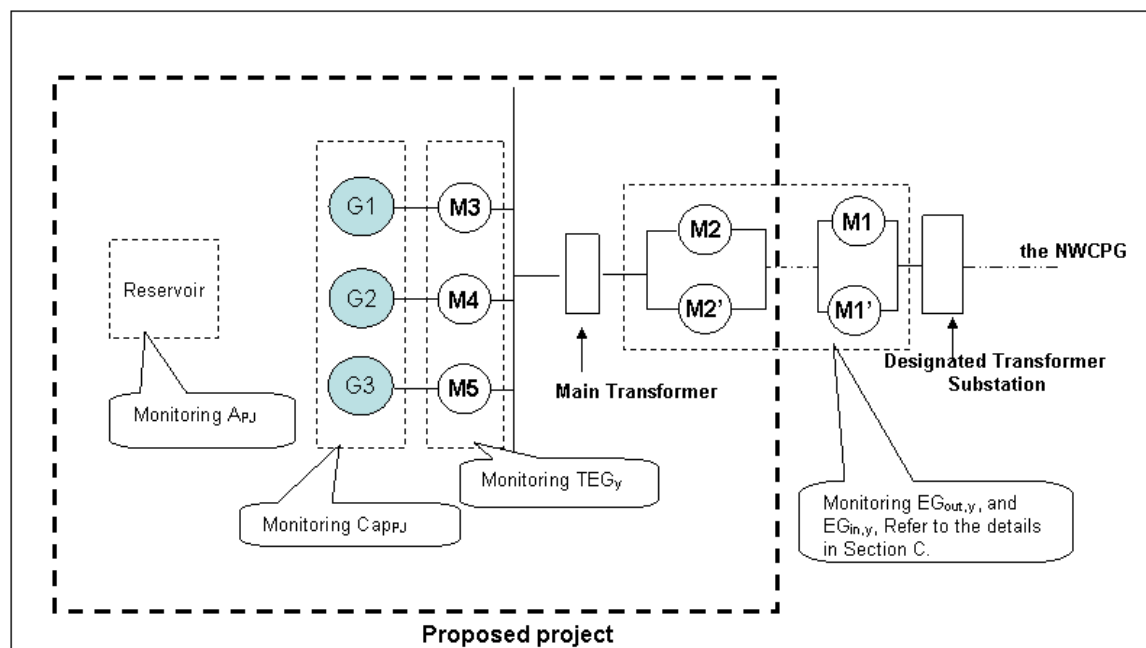


Figure C.1 Diagram of monitoring points

As per the PDD, net electric power exported to the grid (EG_y) is calculated as the difference of the electricity supplied by the project to NWCPG ($EG_{out,y}$) and the electricity imported from the NWCPG to the project ($EG_{in,y}$).

$EG_{out,y}$, the electricity supplied by the project to NWCPG, is measured by two metering systems, a main metering system (M1 and M1') and a check metering system (M2 and M2') to backup. The main metering system which measured the electricity supplied by the project to NWCPG is installed at Designated Transformer Substation. The check metering system is installed at the project site as a reference and backup to the main metering system. The electricity is monitored continuously. The grid company reads and records the meters of the main metering system at the 24:00 of the third last day of each month. The plant operation staff reads and records the meters of the check metering system in monthly reading records at the 24:00 of the third last day of each month. (The monitoring period is from 30/12/2013 to 29/12/2014). The readings of the plant operation staff are submitted to the grid company. The grid company compares the readings with theirs and provides sales receipts to the project owner. The project owner confirms the sales receipts.

$EG_{in,y}$, the electricity imported from the NWCPG, is measured by the same systems as the systems to monitor $EG_{out,y}$, as the meters are bidirectional. The electricity is monitored continuously. The grid company reads and records the meters of the main metering system at the 24:00 of the third last day of each month. The plant operation staff reads and records the meters of the check metering system in monthly reading records at the 24:00 of the third last day of each month. (The monitoring period is from 30/12/2013 to 29/12/2014.) The grid company compares the readings with theirs and provides sales receipts for the electricity imported from the NWCPG to the project owner. $EG_{in,y}$ is double checked by receipts of sales.

TEG_y , total electricity produced by the project activity, is measured by the sum of the three meters (M3, M4, M5) at the outlet of generators. The data of each meter is automatically measured continuously and be read and recorded at the 24:00 daily by the plant operation staff on the

monthly reading records. The sum of the three meters is also recorded on the monthly reading records. The monthly data is recorded electronically.

Cap_{PJ}, installed capacity of the hydro power plant after the implementation of the project activity, is checked and recorded from nameplate of the equipment on the site yearly.

A_{PJ}, the surface area of full reservoir level, is measured by the Northwest Hydro Consulting Engineers, CHECC yearly.

Monitoring Organization and Responsibility

The project owner designated a monitoring team responsible for the monitoring plan. The structure of the monitoring team is outlined in Figure C.2.

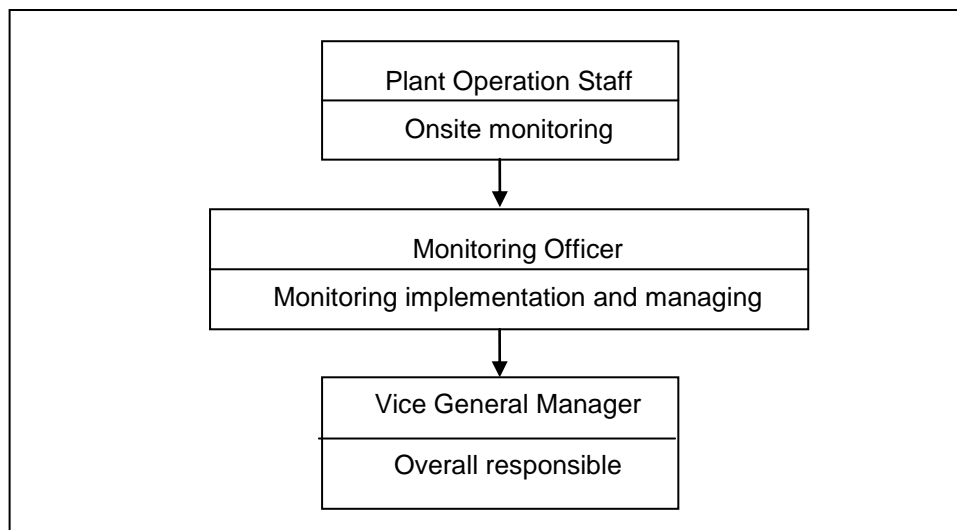


Figure C.2 Structure of the monitoring team

The responsibilities of the team are briefly described as following:

Vice General Manager: hold the overall responsibility for the monitoring process and approval of the monitoring report.

Monitoring Officer: charge of all relevant matters with the monitoring activity, including but not limited to supervision and verification of metering and recording; collection of additional data, sales / billing receipts; Calibration; Calculation of emission reductions; Preparation of monitoring report.

Plant Operation staff: is responsible for the measurement of the monitored data, and assisted the monitoring officer on the plant site.

Training

The project owner with the help from DHV BEEC Co., Ltd. has compiled the CDM Monitoring Manual on monitoring work. The Monitoring Officer has organized training for staffs in relation with monitoring team on CDM knowledge; monitoring methodology and CDM monitoring Manual; data recording and archiving; relevant laws and regulations.

Emergency procedures for the monitoring system

In case metering equipment is damaged and no reliable readings can be recorded the project owner will use the following procedure:

- In case meters recorded by project owner are in malfunction only:

If only M2 exceeds the allowable tolerance or otherwise the meter malfunctioned, M2' will be used to monitor. If both M2 and M2' are in malfunction, the project owner and the grid company will jointly calculate a conservative estimate of the data.

- In case all meters are in malfunction:

The project owner and the grid company will jointly calculate a conservative estimate of all the data. If the project owner and the grid company fail to reach an agreement concerning the correct reading, then the matter will be submitted for arbitration according to agreed procedures.

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
Source of data	Official data from Chinese DNA: http://cdm.ccchina.gov.cn/WebSite/CDM/UpFile/File1364.pdf
Value(s) applied)	0.8498. See Annex 3 of its PDD for details
Choice of data or measurement methods and procedures	/
Purpose of data	Calculation of baseline emissions.
Additional comments	N.A.

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	The status of the project. The project is a new hydro power plant.
Value(s) applied)	0
Choice of data or measurement methods and procedures	/
Purpose of data	Calculation of project emissions.
Additional comments	N.A.

Data/parameter:	A_{BL}
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). For new reservoirs, this value is zero.
Source of data	The status of the project. There will be a new reservoir for this project.
Value(s) applied)	0
Choice of data or measurement methods and procedures	/
Purpose of data	Calculation of project emissions.
Additional comments	N.A.

D.2. Data and parameters monitored

Data/parameter:	EG _{out,y}																																			
Unit	MWh																																			
Description	Annual on-grid electricity supplied to NWCPG by the project.																																			
Measured/calculated/default	Measured. Measured continuously by M1 and M1', and checked by M2 and M2'.																																			
Source of data	Sales receipts of the grid company and monthly reading records of the project owner																																			
Value(s) of monitored parameter	130,994.556 MWh from 30/12/2013 to 29/12/2014, see Table E.1 for details.																																			
Monitoring equipment	<div>The meters are bi-direction. M1 is the main meter. M1' is the auxiliary meter for the M1, which could check the data and will replace the M1 in case of the failure of M1. M2 is the main check meter and M2' is the auxiliary check meter for the M2, which could check the data and will replace the M2 in case of the failure of M2. Locations of these meters are indicated in Figure C.1.</div> <table><tr><th>No.</th><th>Type</th><th>Accuracy</th><th>Serial Number</th><th>Calibration Frequency</th><th>Date of calibration</th><th>Calibration Validity</th></tr><tr><td>M1</td><td>SL7000</td><td>0.2S</td><td>51000047</td><td>1 year</td><td>13/03/2013 12/03/2014</td><td>Yes</td></tr><tr><td>M1'</td><td>SL7000</td><td>0.2S</td><td>51000048</td><td>1 year</td><td>13/03/2013 12/03/2014</td><td>Yes</td></tr><tr><td>M2</td><td>SL7000</td><td>0.2S</td><td>51000045</td><td>3 year</td><td>22/03/2013 21/03/2014</td><td>Yes</td></tr><tr><td>M2'</td><td>SL7000</td><td>0.2S</td><td>51000046</td><td>3 year</td><td>22/03/2013 21/03/2014</td><td>Yes</td></tr></table>	No.	Type	Accuracy	Serial Number	Calibration Frequency	Date of calibration	Calibration Validity	M1	SL7000	0.2S	51000047	1 year	13/03/2013 12/03/2014	Yes	M1'	SL7000	0.2S	51000048	1 year	13/03/2013 12/03/2014	Yes	M2	SL7000	0.2S	51000045	3 year	22/03/2013 21/03/2014	Yes	M2'	SL7000	0.2S	51000046	3 year	22/03/2013 21/03/2014	Yes
No.	Type	Accuracy	Serial Number	Calibration Frequency	Date of calibration	Calibration Validity																														
M1	SL7000	0.2S	51000047	1 year	13/03/2013 12/03/2014	Yes																														
M1'	SL7000	0.2S	51000048	1 year	13/03/2013 12/03/2014	Yes																														
M2	SL7000	0.2S	51000045	3 year	22/03/2013 21/03/2014	Yes																														
M2'	SL7000	0.2S	51000046	3 year	22/03/2013 21/03/2014	Yes																														
Measuring/reading/recording frequency:	Measured continuously, read and recorded monthly.																																			
Calculation method (if applicable):	N.A.																																			
QA/QC procedures:	<div><div>–</div><div>M1 and M1' are calibrated every year.</div></div> <div><div>–</div><div>M2 and M2' are calibrated once three years.</div></div> <div><div>–</div><div>Power is double checked with sales receipts.</div></div> <div><div>–</div><div>Data record and relevant documents will be archived for a period of 2 years after the crediting period.</div></div> <div><div>–</div><div>Special CDM project team has been set up.</div></div> <div><div>–</div><div>A detailed rule on monitoring management has been made.</div></div>																																			
Purpose of data:	Calculation of baseline emissions.																																			
Additional comments:	<div>To calculate $EG_y=EG_{out,y}-EG_{in,y}$</div> <div>$EG_{y,Net}$ electricity exported to the NWCPG by the project, is calculated by $EG_v= EG_{out,v}-EG_{in,v}$</div>																																			

Data/parameter:	$EG_{in,y}$
Unit	MWh
Description	Annual on-grid electricity imported from NWCPG by the project for the plant operation.
Measured/calculated/default	Measured. Measured continuously by M1 and M1', and checked by M2 and M2'.
Source of data	Sales receipts and monthly reading records of the project owner
Value(s) of monitored parameter	75.253MWh from 30/12/2013 to 29/12/2014, see Table E.1 for details.

Monitoring equipment	Same as the part of EG_{out,y} .
Measuring/reading/recording frequency:	Measured continuously, read and recorded monthly.
Calculation method (if applicable):	N.A.
QA/QC procedures:	<ul style="list-style-type: none"> – M1 and M1' are calibrated every year. – M2 and M2' are calibrated once a year. – Power is double checked with sales receipts. – Data record and relevant documents will be archived for a period of 2 years after the crediting period. – Special CDM project team has been set up. – A detailed rule on monitoring management has been made.
Purpose of data:	Calculation of baseline emissions.
Additional comments:	<p>To calculate $EG_y = EG_{out,y} - EG_{in,y}$</p> <p>$EG_y$, Net electricity exported to the NWCPG by the project, is calculated by</p> <p>$EG_y = EG_{out,y} - EG_{in,y}$</p>

Data/parameter:	TEG _y						
Unit	MWh						
Description	Total electricity produced by the project activity, including the electricity supplied to the grid and the electricity supplied to internal loads, in year y.						
Measured/calculated/default	Calculated. Calculated as the sum of M3, M4 and M5.						
Source of data	Monthly reading records						
Value(s) of monitored parameter	132,448.800 MWh from 30/12/2013 to 29/12/2014, table in the Section E.2 for details.						
Monitoring equipment	M3, M4, M5 are used to monitor the electricity produced by the each generator. Locations of these meters are indicated in Figure C.1.						
	No.	Type	Accuracy	Serial number	Frequency of calibration	Date of calibration	Calibration Validity
	M3	DTSD341	0.5S	20080352030008	3 year	26/03/2012 24/03/2014	Yes
	M4	DSSD331	0.5S	20080352030007	3 year	26/03/2012 24/03/2014	Yes
	M5	DSSD331	0.5S	20080352030004	3 year	28/09/2012 26/09/2014	Yes
Measuring/reading/recording frequency:	Measured continuously, read and recorded monthly.						
Calculation method (if applicable):	Calculated as the sum of M3, M4 and M5.						
QA/QC procedures:	<ul style="list-style-type: none">– M3, M4 and M5 are calibrated once three years.– Data record and relevant documents will be archived for a period of 2 years after the crediting period.– Special CDM project team has been set up. A detailed rule on monitoring management has been made.						
Purpose of data:	Calculation of project emissions.						
Additional comments:	N.A.						

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

Measured/calculated/default	Measured.
Source of data	Check the nameplate of the equipment on the site.
Value(s) of monitored parameter	40.2
Monitoring equipment	N.A.
Measuring/reading/recording frequency:	Check the nameplate of the equipment on the site, yearly.
Calculation method (if applicable):	N. A.
QA/QC procedures:	<ul style="list-style-type: none"> – Data record and relevant documents will be archived for a period of 2 years after the crediting period. – Special CDM project team has been set up. A detailed rule on monitoring management has been made.
Purpose of data:	Calculation of project emissions.
Additional comments:	N. A.

Data/parameter:	A_{PJ}
Unit	m²
Description	Area of the reservoir measured at the surface of the water, after the implementation of the project activity, when the reservoir is full.
Measured/calculated/default	Measured.
Source of data	Survey Report on Surface Area of the Reservoir, by Northwest Hydro Consulting Engineers, CHECC.
Value(s) of monitored parameter	471,600
Monitoring equipment	Equipments of Northwest Hydro Consulting Engineers, CHECC.
Measuring/reading/recording frequency:	Measured and recorded yearly.
Calculation method (if applicable):	N.A.
QA/QC procedures:	N. A.
Purpose of data:	Calculation of project emissions.
Additional comments:	N.A.

D.3. Implementation of sampling plan

>>N.A.

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

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

>>

Baseline emissions include only CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity, calculated as follows:

$$BE_y = EG_y \bullet EF_{\text{grid,CM,y}} \quad (\text{E.1-1})$$

Where:

BE_y = Baseline emissions in year y (tCO₂/yr).

EG_y = Net electricity exported to the grid by the project activity (MWh), as indicated in the Table E.1.

$EF_{\text{grid,CM,y}}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the "Tool to calculate the emission factor for an electricity system". The value has been calculated ex ante as 0.8498tCO₂/MWh and there is no need for monitor and recalculation.

Baseline emissions during this monitoring period is shown in the Table E.1

Table E.1 Baseline emission reduction calculation

Period	EG _{out,y} MWh			EG _{in,y} MWh			EG _y MWh	EF _{grid,CM,y} , t CO ₂ e/MWh	BE _y tCO ₂ e
	A ^{*1}	B ^{*2}	C=Min (A,B)	D ^{*1}	E ^{*2}	F=Max(D,E)	G=C-F	H	I=G*H
30/12/2013-29/01/2014	4,816.020	4,817.934	4,816.020 ^{*3}	1.320	1.320	1.320	4,814.700	0.8498	4,092
30/01/2014-26/02/2014	3,710.520	3,714.480	3,710.520 ^{*3}	5.280	13.200	13.200	3,697.320	0.8498	3,142
27/02/2014-29/03/2014	2,497.440	2,471.106	2,471.106	57.420	58.080	58.080	2,413.026	0.8498	2,051
30/03/2014-28/04/2014	5,984.220	5,923.830	5,923.830	0.660	0.673	0.673	5,923.157	0.8498	5,033
29/04/2014-29/05/2014	12,800.700	12,802.812	12,800.700 ^{*3}	0.000	0.000	0.000	12,800.700	0.8498	10,878
30/05/2014-28/06/2014	14,267.220	14,276.856	14,267.220 ^{*3}	0.000	0.000	0.000	14,267.220	0.8498	12,124
29/06/2014-29/07/2014	12,515.580	12,517.098	12,515.580 ^{*3}	0.000	0.000	0.000	12,515.580	0.8498	10,636
30/07/2014-29/08/2014	16,493.400	16,488.582	16,488.582	0.000	0.000	0.000	16,488.582	0.8498	14,012
30/08/2014-28/09/2014	17,971.140	17,940.318	17,940.318	1.980	0.000	1.980	17,938.338	0.8498	15,244
29/09/2014-29/10/2014	20,514.120	20,506.860	20,506.860	0.000	0.000	0.000	20,506.860	0.8498	17,427
30/10/2014-28/11/2014	11,960.520	11,964.942	11,960.520 ^{*3}	0.000	0.000	0.000	11,960.520	0.8498	10,164
29/11/2014-29/12/2014	7,593.300	7,593.366	7,593.300 ^{*3}	0.000	0.000	0.000	7,593.300	0.8498	6,453
Total (12/30/2013-29/12/2014)	131,124.180	131,018.184	130,994.556	66.660	73.273	75.253	130,919.303	-	111,255

Please get details in the calculation spreadsheets.

Note :

*1, Data is from monthly reading records of the project owner and monitored by M2/M2'.

*2, Data is from the sales receipts of the grid company and monitored by M1/M1'. Data of monthly reading records has been crosschecked with the receipts and the conservative data has been used.

*3, For Jan, Feb, May, Jun, Jul, Nov and Dec of 2014, data reading time of the grid company are later than that of the project owner, which lead to the data in the sales receipts(in Column B) are bigger than that in the monthly reading records(in Column A). In this case, conservative data has been used.

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

>>

According to the ACM0002, if the power density (PD) of the power plant is greater than 10 W/m²:

PE_y= 0

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

$$PD = \frac{Cap_{PJ} - Cap_{BL}}{A_{PJ} - A_{BL}} \quad (E.2)$$

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.

For this project: PD=(40,200,000-0)W÷(471,600-0)m²=85.24W/m², is greater than 10 W/m²(A_{PJ} in the PDD is 520,000m², which is estimated data in its FSR and is not accurate. Even using this estimated data, PD (=40,200,000-0)W÷(520,000-0)m²=77W/m²) is still above 10W/m²). So the Project emission is zero. i.e. PE_y=0.

The monitoring data of the TEG_y is 132,448.800MWh from 30/12/2013 to 29/12/2014, as indicated in the following table. These data weren't used for the calculation of ERs in this monitoring period for PD>10W/m² as calculation above.

Period	Electricity produced by G1, MWh	Electricity produced by G2, MWh	Electricity produced by G3, MWh	Total electricity produced by the project activity(TEG _y), MWh
Total (30/12/2013-29/12/2014)	50,581.200	43,605.600	38,262.000	132,448.800

Please get details in the calculation spreadsheets.

E.3. Calculation of leakage

>> According to the ACM0002 methodology, the leakage in the project is neglected, i.e. LE_y=0.

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	111,255	0	0	N.A.	111,255	111,255

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)	138,919	111,255

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

>> From 30/12/2013-29/12/2014 (total 365 days), the project has a total actual net electricity exported to the grid of 130,919.303MWh, corresponds to the emission reductions of 111,255tCO₂e, which is about 19.91% lower than the designed value of 138,919tCO₂e.

Appendix 1. Contact information of project participants and responsible persons/entities

Project participant and/or responsible person/ entity	<input checked="" type="checkbox"/> Project participant <input type="checkbox"/> Person/entity responsible for completing the CDM-MR-FORM
Organization name	GEPIC Darong Electric Power Company Ltd.
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Contact person	Hu Bo
Title	PM of CDM
Salutation	Mr.
Last name	Bo
Middle name	-
First name	Hu
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Project participant and/or responsible person/ entity	<input checked="" type="checkbox"/> Project participant <input type="checkbox"/> Person/entity responsible for completing the CDM-MR-FORM
Organization name	Vattenfall Energy Trading Netherlands N.V. BA Markets
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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.
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