



Monitoring report form (Version 03.2)

Monitoring report

Title of the project activity	Korea South-East Power Co. (KOSEP) small-scale hydroelectric power plants project (the Samchonpo Thermal Power Plant and Younghung Thermal Power Plant small-scale hydroelectric power plants construction project)
Reference number of the project activity	788
Version number of the monitoring report	01
Completion date of the monitoring report	31/01/2014
Registration date of the project activity	23/03/2007
Monitoring period number and duration of this monitoring period	3 rd monitoring: 01/01/2012 ~ 31/12/2013
Project participant(s)	Korea South-East Power Co.,(KOSEP)
Host Party(ies)	Republic of Korea
Sectoral scope(s) and applied methodology(ies)	Sectoral Scope(s): I Energy Industries(Renewable resource) Methodology: AMS-I.D(Ver.9)
Estimated amount of GHG emission reductions or net anthropogenic GHG removals by sinks for this monitoring period in the registered PDD	42,378 ton CO ₂ e
Actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved in this monitoring period	45,429 ton CO ₂ e
Actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved during the period up to 31 December 2012(if applicable)	21,572 ton CO ₂ e
Actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved during the period from 1 January 2013 onwards (if applicable).	23,857 ton CO ₂ e

SECTION A. Description of project activity**A.1. Purpose and general description of project activity**

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- Purpose of the project activity

The sea-water is used as cooling water in the thermal power plant. The used cooling water makes net head being drained to the sea and it is possible to generate the electric power by the net head. KOSEP is constructing small-scale hydroelectric power plants in the Samchonpo thermal power plant and Younghung thermal power plant. This project activity generates the electric power as well as produce socio-economical benefits in the local and national level. This project also devotes abating global warming and it will cover the increasing demand for the electric power and reduce the import of fossil fuels in Korea.

-Brief description of the installed technology and equipments

KOSEP small-scale hydroelectric power plants project consists in six wheels, six generators, one transformer in the Samchonpo and three wheels, three generators, one transformer in the Younghung.

Item	Samchonpo	Younghung
Unit	6	3
Generator output power	1,000 kW x 6	1,000kW x 3
Total installed Capacity	6,000kW	3,000kW

- Relevant dates for the project activity

Item	Samchonpo	Younghung
Completion of construction	29/12/2006	06/04/2008
Commissioning date	23/01/2007	09/04/2008
Starting date of operation	29/12/2006	11/03/2008
1 st monitoring period	01/11/2007 ~ 31/12/2008	
2 nd monitoring period	01/01/2009 ~ 31/12/2011	
3 rd monitoring period	01/01/2012 ~ 31/12/2013	

Date when power transmission was firstly made is defined as starting date of commercial operation in Republic of Korea.

The date in Samchonpo when KPX firstly transmitted power was 29 December, 2006 and the construction was completed on 29 December, 2006. The date in Younghung when KPX firstly transmitted power at the end of construction stage was 11 March, 2008 and the construction was completed on 6 April, 2008.

A.2. Location of project activity

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The Samchonpo thermal power plant small-scale hydroelectric power plant:
(Goseong Gun, Gyeongsangnam-do, Republic of Korea)

The Younghung thermal power plant small-scale hydroelectric power plant:
(Ongjin Gun, Incheon metropolitan City, Republic of Korea)



- ⊙ Younghung SSC hydroelectric Power plant



latitude: 37.23404°
longitude: 126.434113°

- ⊙ Samchonpo SSC hydroelectric power plant



latitude: 34.913056°
longitude: 128.112500°

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 if the Party involved wishes to be considered as project participant (Yes/No)
Republic of Korea (host)	Private entity: Korea South-East Power Co.,(KOSEP)	NO

A.4. Reference of applied methodology

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The applied Methodology: AMS-I.D. Grid connected renewable electricity generation (Version 9)
Tools: "Tool to calculate emission factor for an electricity system" (Version 01.1)

A.5. Crediting period of project activity

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Type: Fixed
Start date of 3rd monitoring: 01/01/2012
Length of the crediting period: 01/11/2007 ~ 31/10/2017 (10years)

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

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1. Technical process

KOSEP small-scale hydroelectric power plants project (the Samchonpo Thermal Power Plant, Younghung Thermal Power Plant small-scale hydroelectric power plants construction project) consists in 8,695.2 kW of facility capacity and power generation as per the PDD is expected to be 43,749MWh per year. Major project participant is KOSEP.

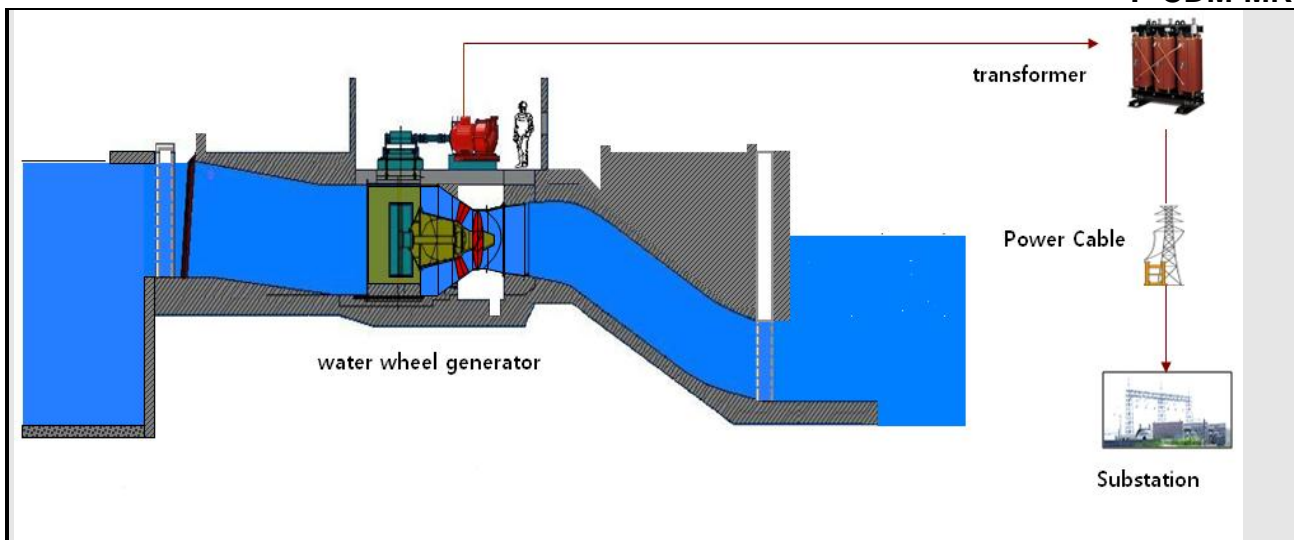
Those plants are generating rotatory force of wheels utilizing potential energy derived from net head of cooling water, and they generate electricity by generator directly connected to the wheel.

In another words, this project adopts the system that Generator generates electricity by operating wheels before cooling water goes to the sea, and the generated electricity is going to the grid by utilizing transformer.

2. Installed technology small scale hydropower plant.

Classification		The Samchonpo small-scale hydroelectric power plant	The Younghung small-scale hydroelectric power plant
Wheel	Type	Vertical/Horizontal Kaplan	Pit/Horizontal/Kaplan
	Output power	949.2 kW	1,000 kW
	Rotation	160 RPM	187.5 RPM
	Unit	6	3
Generator	Type	Three-phase induction (horizontal axis)	Synchronous (horizontal axis)
	Output power	1,000 kW	1,000 kW
	Unit	6	3
Transformer	Type	Mold type	Mold type
	Capacity	7,000 kVA	4,000 kVA
	Volatage	3.3 kV / 22.9 kV	3.3 kV / 22.9 kV
	Connect-ion type	Δ -Y	Δ -Y
	Unit	1	1

3. System diagram



4. Relevant dates of project activity:

Item	Samchonpo	Younghung
Completion of construction	29/12/2006	06/04/2008
Commissioning date	23/01/2007	09/04/2008
Starting date of operation	29/12/2006	11/03/2008
1 st monitoring period	01/11/2007 ~ 31/12/2008	
2 nd monitoring period	01/01/2009 ~ 31/12/2011	

5. The information regarding the actual operation:

Item	Samchonpo		Younghung	
Overhaul	4times		-	
	Date	details		
	2011.02.26 ~ 2012.05.05	Overhaul(#5)		
	2011.02.26 ~ 2012.05.05	Overhaul(#6)		
	2013.02.04 ~ 2013.02.04	Overhaul (#1,#2,#3,#4,#5,#6)		
	2013.09.21 ~ 2013.11.11	Overhaul(#1)		
Downtimes	7times		5times	
	Date	details	Date	details
	2012.05.26	Belt Deviation (#2)	2012.06.15 ~ 2012.06.20	Inspection of Lube oil filter(#3,#4)
	2013.01.03	Generator I/B Vib. X-Hi trip(#4)	2012.07.27 ~ 2012.09.06	Maintenance of wheel Gland Seal (#3)
	2013.01.11	MMI_Tbn5_Man ustop_STS(#5,#6)		
	2013.02.10	Generator I/B Vib. X-Hi trip(#1)	2012.07.30 ~ 2012.08.13	Inspection of HPU Accumulator(#4)
	2013.02.25	Belt Deviation(#6)	2013.08.09 ~	Inspection of LO

	2013.07.10	Hydro Oil Temp Hi Trip(#1)	2013.08.13	Pump (#3,#4)
	2013.12.21	Rise of Pulley Brg'(I/B) Temp (#1)	2013.11.25 ~ 2013.12.04	Inspection of Gearbox BRG Temp signal Converter (#4)
Exchan ge of equipm ent	2times		7times	
			Date	details
			2012.07.13 ~ 2012.07.30	Exchange of Transducer(#4)
			2012.08.21 ~ 2012.08.27	Exchange of Protection sleeve(#3)
			2012.11.15 ~ 2012.12.21	Exchange of LO Pump BRG and Seal (#3)
			2013.02.18 ~ 2013.03.07	Exchange of Gearbox Brake pad(#3,#4)
			2013.07.22 ~ 2013.07.26	Exchange of HPU hydraulic hose(#3,#4)
			2013.08.19 ~ 2013.11.28	Exchange of HPU Pump(#4)
			2013.10.15 ~ 2013.11.28	Exchange of HPU & LO oil (#3,#4)
	Date	details		
	2012.07.25	Exchange of Flat belt(#3)		
	2013.03.10 ~ 2013.03.11	Exchange of Flat belt(#5)		

B.2. Post registration changes**B.2.1. Temporary deviations from registered monitoring plan or applied methodology**

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Not applicable

B.2.2. Corrections

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Not applicable

B.2.3. Permanent changes from registered monitoring plan or applied methodology

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Not applicable

B.2.4. Changes to project design of registered project activity

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During the 2nd monitoring period, the dam height of Samchonpo site has been increased with 0.8M. In accordance with CDM Project standard(ver01), this change has been evaluated by DOE and EB that the change does not impact on additionality of the project, scale of the project activity and monitoring plan

For the detailed information refer to the PRC-0788-001

B.2.5. Changes to start date of crediting period

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Not applicable

B.2.6. Types of changes specific to afforestation or reforestation project activity

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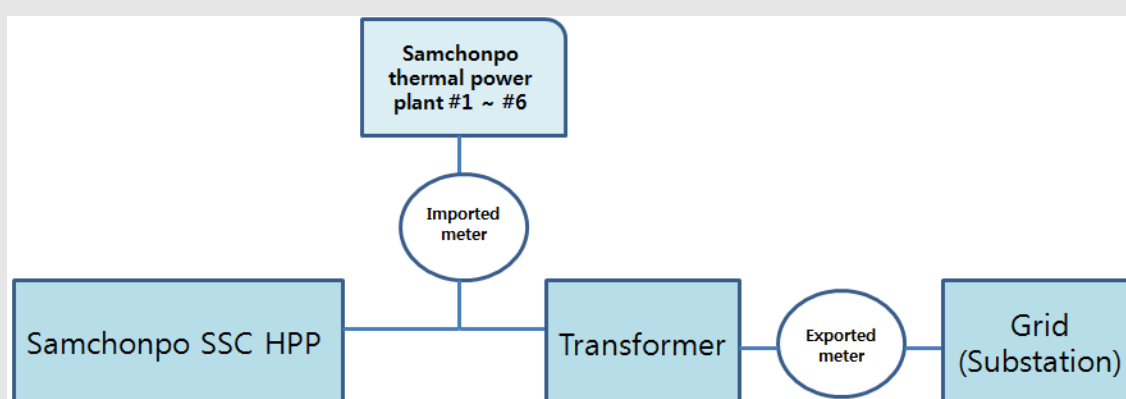
Not applicable

SECTION C. Description of monitoring system

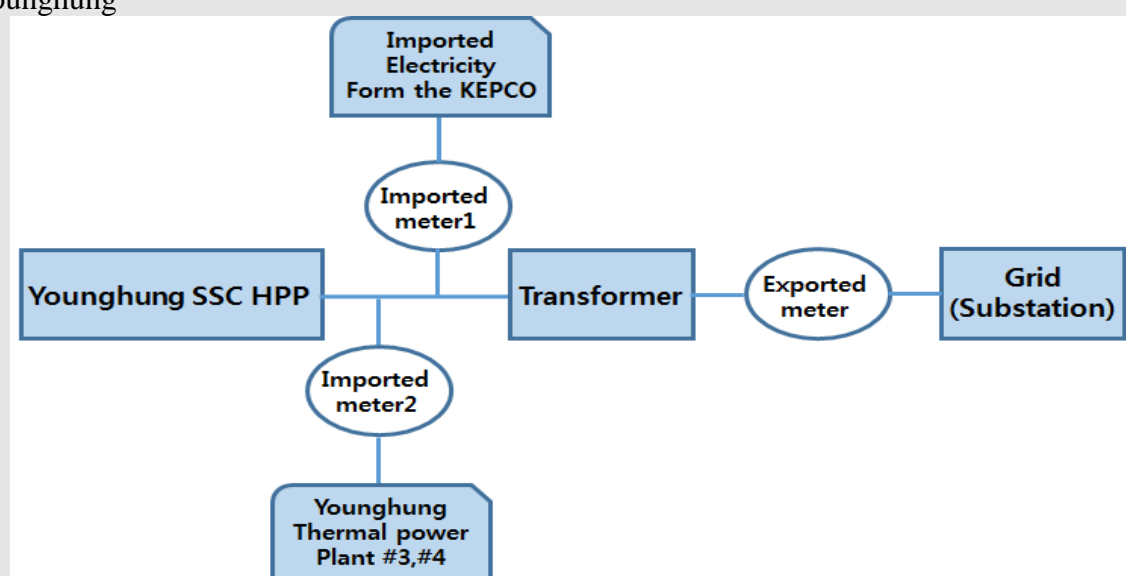
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- Data collection procedures & diagram:

1) Samchonpo



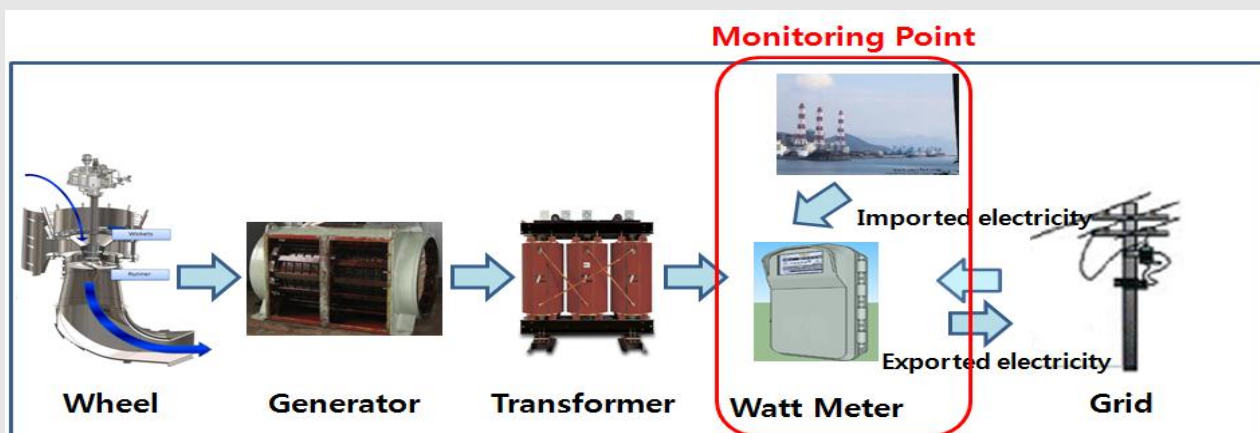
2) Younghung

**- Monitoring data**

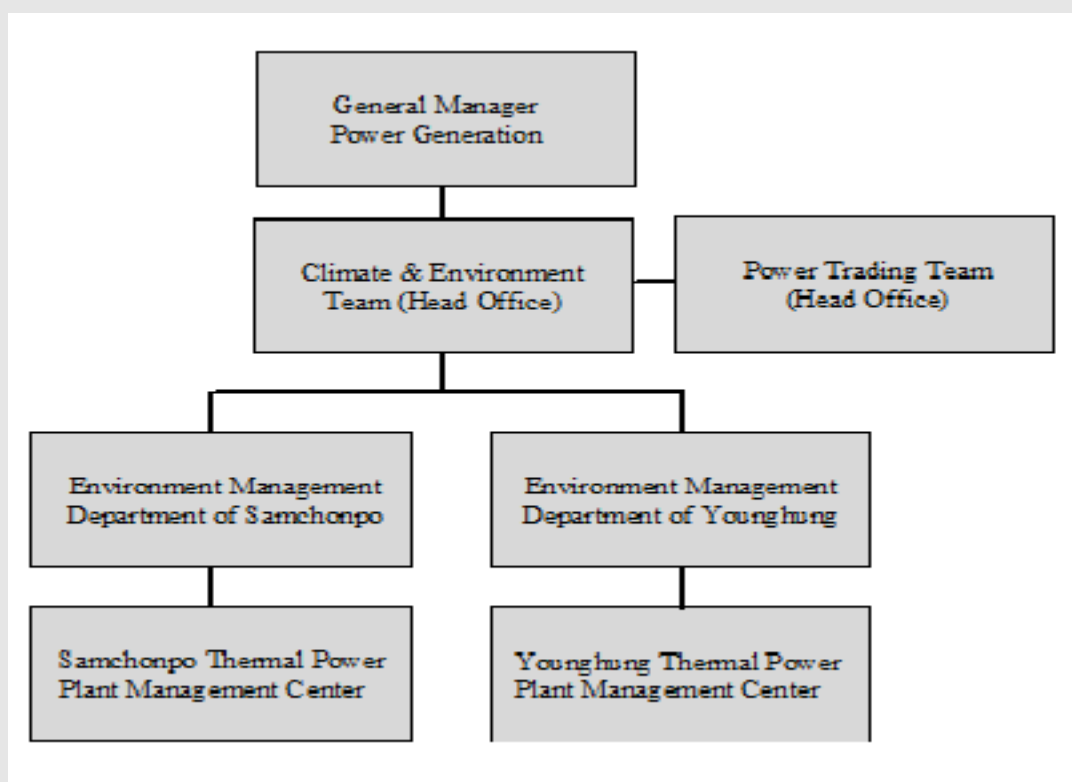
- 1) Measurement of electricity meters established on site
- 2) Transfer measured data to KPX
- 3) Recording of measured data

- exported electricity data of KPX website and data of internal generated electricity
- 4) The comparison between KOSEP data and KPX data

- Monitoring Point for the project:



- Operational and management structure:



· Management Center

Responsibilities: Be responsible for collecting and documentation of the net electricity data supplied to the grid and check and review the collected monitoring data

· Environment Management Department

Responsibilities: Be responsible for operation & maintenance of monitoring equipment, recording and collecting of monitoring data.

· Climate & Environment Team (Head Office)

Responsibilities: Take charge of the implementation and management of the monitoring plan overall; check and supervise the activities such as recording, collecting and archiving of the monitoring data.

· Power Trading Team (Head Office)

Responsibilities: Comparison between data of KPX and amount of electricity recorded in internal server.

· General Manager Power Generation

Responsibilities: Be responsible for final approval on a monitoring report.

- QA/QC procedures

1. Monitoring equipment and the amount of electricity monitoring

1-1. Electricity measuring meters were set up transparently in accordance with “Law regarding measurement” and “Act on operation of electricity market” then sealed after affirmation of Korea Power Exchange.

1-2. The meters were tested when they were installed, and are re-calibrated every three years after installation.

1-3. The amount of electricity transmitted to the grid is measured automatically by established meters.

1-4. The measured data is simultaneously transferred to central control system of Small-Scale hydroelectric Power Plant and Korea Power Exchange.

2. Emergency procedure

2-1. In case unexpected accident which affects Emission Reductions is occurred, the person in charge of monitoring should report to the responsible department(Climates & Environment Team) and act according to the internal manual in emergency.

2-2. In case meters are improperly operated or the transfer of data is in error, internal investigation and correction procedure shall be followed and be certified by the final decision-maker and Korea Power exchange.

SECTION D. Data and parameters

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

Data / Parameter:	EF _y
Unit:	tCO ₂ /MWh
Description:	The combined margin emission factor in the Republic of Korea grid
Source of data:	The registered PDD
Value(s) applied:	0.5554 tCO ₂ /MWh (Ex-ante value)

Purpose of data:	<ul style="list-style-type: none"> - This value is used for baseline emission calculations. - This value was calculated according to "A combined margin(CM) , consisting of the combination of operating margin(OM) and build margin(BM) according to the procedures prescribed in the approved methodology ACM0002" Applied value was calculated by referring Statistics of Electric Power in KOREA (2004, 2005, 2006) (KEPCO)
Additional comment:	This parameter was calculated ex-ante as 0.5554tCO _{2e} /MWh in the registered PDD and will be fixed during the first crediting period.

Data / Parameter:	EF _{CO2, thermal power}
Unit:	tCO ₂ /MWh
Description:	CO ₂ emission factor from Samchonpo & Younghung thermal power plant in year y.
Source of data:	The value in the PDD is from "Methodological tool (Tool to calculate baseline, project and/or leakage emissions from electricity consumption),
Value(s) applied:	1.3 tCO ₂ /MWh
Purpose of data:	<p>The project activity can be supplied the electricity consumption sources from Samchonpo #1 ~ #8 & Younghung #3,#4 thermal power plants. These thermal power plants are also connected to the electricity grid.</p> <p>As per scenario C of the "Tool to calculate baseline, project and/or leakage emissions from electricity consumption", the project activity applies to an emission factor of 1.3tCO₂/MWh which used to project electricity consumption sources as a conservative simplification.</p>
Additional comment:	

D.2. Data and parameters monitored

- Samchonpo

Data / Parameter:	EG1,y
Unit:	MWh
Description:	Electricity supplied to the grid by the project
Measured/ Calculated / Default:	Directly measured
Source of data:	Measured by meter installed at the project site
Value(s) of monitored parameter:	62,373.636MWh

Monitoring equipment:	Measurement equipment: Watt-hour meter Accuracy: Allowable error range $\pm 0.5\%$. Serial number: 5561356 Calibration information - Number of meter: 1 meter - Calibration frequency : within 3years - Date of previous calibration: 20/10/2009 - Date of latest calibration: 21/03/2012 - Validity period: 21/03/2012 ~ 20/03/2015
Measuring/ Reading/ Recording frequency:	Measuring: every 5minutes Recording: daily KOSEP practically measures supplied electricity every five minutes in order to increase its accuracy though PDD only represents that electricity shall be measured every hour. More precise monitoring than PDD description(Measuring: Hourly/ Recording: Monthly)
Calculation method (if applicable):	Not applicable
QA/QC procedures: Not applicable	The amount of electricity transmitted to the grid was automatically measured and transferred to Korea Power Exchange (KPX) and, so it was double checked by receipt of sales
Purpose of data:	This value is used for Baseline emission calculations
Additional comment:	
Data / Parameter:	El _{1,y}
Unit:	MWh
Description:	Electricity supplied from the grid by Samchonpo thermal power plant
Measured/ Calculated / Default:	Directly measured
Source of data:	Measured by meter installed at the project site
Value(s) of monitored parameter:	0.013MWh
Monitoring equipment:	Measurement equipment: Watt-hour meter Accuracy: Allowable error range $\pm 0.5\%$. Serial number: 0244690 Calibration information - Number of meter: 1 meter - Calibration frequency : within 3years - Date of previous calibration: 20/10/2009 - Date of latest calibration: 18/06/2012 - Validity period:18/06/2012 ~ 17/06/2015
Measuring/ Reading/ Recording frequency:	Measuring: Real time Recording: Monthly
Calculation method (if applicable):	Not applicable

QA/QC procedures: Not applicable	
Purpose of data:	This value is used for Project emission calculations
Additional comment:	

- Younghung

Data / Parameter:	EG2,y
Unit:	MWh
Description:	Electricity supplied to the grid by the project
Measured/ Calculated / Default:	Directly measured
Source of data:	Measured by meter installed at the project site
Value(s) of monitored parameter:	20,461.842MWh
Monitoring equipment:	Measurement equipment: Watt-hour meter Accuracy: Allowable error range $\pm 0.5\%$. Serial number: 6063914 Calibration information - Number of meter: 1 meter - Calibration frequency : within 3years - Date of previous calibration: 16/12/2010 - Date of latest calibration: 03/03/2014 - Validity period: 16/12/2010 ~ 15/12/2013
Measuring/ Reading/ Recording frequency:	Measuring: every 5minutes Recording: daily KOSEP practically measures supplied electricity every five minutes in order to increase its accuracy though PDD only represents that electricity shall be measured every hour. More precise monitoring than PDD description(Measuring: Hourly/ Recording: Monthly)
Calculation method (if applicable):	Not applicable
QA/QC procedures: Not applicable	The amount of electricity transmitted to the grid was automatically measured and transferred to Korea Power Exchange (KPX) and, so it was double checked by receipt of sales
Purpose of data:	This value is used for Baseline emission calculations
Additional comment:	

Data / Parameter:	EI2,y
Unit:	MWh
Description:	Electricity supplied from the grid by KEPCO
Measured/ Calculated / Default:	Directly measured
Source of data:	Measured by meter installed at the project site

Value(s) of monitored parameter:	58.790MWh
Monitoring equipment:	Measurement equipment: Watt-hour meter Accuracy: Allowable error range $\pm 1.0\%$. Serial number: 0707457 Calibration information - Number of meter: 1 meter - Calibration frequency : within 3years - Date of previous calibration: 23/06/2009 (Applying the maximum permissible error 1.0% of monitored electricity due to overdue calibration of imported electricity meter (from 22/06/2012 to 30/7/2012). - Date of latest calibration: 31/07/2012 - Validity period: 31/07/2012 ~ 30/07/2015
Measuring/ Reading/ Recording frequency:	Measuring: Real time Recording: Monthly
Calculation method (if applicable):	Not applicable
QA/QC procedures: Not applicable	The import electricity data is double checked with the electricity bill.
Purpose of data:	This value is used for Project emission calculations
Additional comment:	
Data / Parameter:	El3,y
Unit:	MWh
Description:	Electricity supplied from the grid by Younghung thermal power plant
Measured/ Calculated / Default:	Directly measured
Source of data:	Measured by meter installed at the project site
Value(s) of monitored parameter:	1.031MWh
Monitoring equipment:	Measurement equipment: Watt-hour meter Accuracy: Allowable error range $\pm 0.5\%$. Serial number: 62014919 Calibration information - Number of meter: 1 meter - Calibration frequency : within 3years - Date of initial calibration: 21/08/2012 - Date of latest calibration: 21/08/2012 - Validity period: 21/08/2012 ~ 20/08/2015
Measuring/ Reading/ Recording frequency:	Measuring: Real time Recording: Monthly
Calculation method (if applicable):	Not applicable

QA/QC procedures: Not applicable	
Purpose of data:	This value is used for Project emission calculations
Additional comment:	

D.3. Implementation of sampling plan

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Not applicable

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

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

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$$BE_y = EG_y \times EF_y$$

Samchonpo SSC HPP: 62,373.636MWh

Younghung SSC HPP: 20,459.095MWh

- Applying the maximum permissible error 0.5% of exported electricity due to overdue calibration of exported meter supplied to the grid (from 15/12/2013 to 31/12/2013) – based on Annex 60 of EB52th meeting. (Guidelines for assessing compliance with the calibration frequency requirements-ver01)

Period	EG _{2,y} (MWh)		Remarks
	EG ₂	EG ₂ (Applying the maximum permissible error 0.5% of exported electricity)	
1 Jan 2012 ~ 31 Dec 2013	20,461.842	20,459.095	

Total Electricity Generated, EG_y: 82,832.731MWh

$$BE_y = 82,832.731\text{MWh} \times 0.5554 \text{ tCO}_2\text{e/MWh} = 46,005.299\text{tCO}_2\text{e}$$

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

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In case of Samchonpo, electricity generated from this project is utilized for its own operation of small scale hydro power plant and the rest amount of electricity is going to KPX in order.

Samchonpo hydropower plant is utilized in internal meter (Meter1) that is imported electricity from the Water treatment facility.

During this monitoring period, imported electricity of Samchonpo is

- From 01 Jan 2012 to 31 Dec 2013 is 0.013MWh

In case of Younghung hydropower plant, imported electricity has calculated three methods as below;

- Measurement of electricity supplied from KEPCO (Meter2),
- Calculation of imported electricity from the thermal power plant #3,#4.(from 01/01/2012 ~ 31/08/2012)
- Measurement of electricity supplied from from Younghung thermal power plant(Meter3)
(meter is installed on 31/08/2012)

In emergency circumstances that electricity is not supplied due to shutdown of Younghung thermal power plant, electricity of KEPCO is supplied to the Younghung hydro power plant.

Imported electricity from the KEPCO(meter2) is measured in real time, recording monthly basis.

- During this monitoring period, imported electricity from the KEPCO is 58.790MWh
- Applying the maximum permissible error 1.0% of imported electricity due to overdue calibration of imported meter from the KEPCO (from 22/06/2012 to 30/7/2012) – based on Annex 60 of EB52th meeting. (Guidelines for assessing compliance with the calibration frequency requirements-ver01)

Period	EI _y (MWh)		Remarks
	Ely	Ely (Applying the maximum permissible error 1.0% of imported electricity)	
1 Jan 2012 ~ 31 Dec 2013	58.790	58.9135	

This monitoring period, internal meter is installed on 31/08/2012 for recording imported electricity from Younghung thermal power plant.

The calculation of internal imported electricity until meter is installed as follows;

The below EI_y is calculated by multiplication between maximum auxiliary electricity and operation time of small scale hydro power plant.

The formula is as follows:

- EI_y= Operation time of small scale hydro power plant(hour) x Maximum electricity load of the facility (kW)

* Operation time (hour): operation time is calculated based on 1 month (24hour*29or30or31)

* Maximum electricity load of the facility (kW): obtained from the technical specification of the plant

- Calculation of imported electricity from the thermal power plant #3,#4: 417.415MWh

$$417.415\text{MWh} = 5,856(\text{h}) \times 71.28\text{kW} \times 1\text{MW}/1000\text{kW}$$

5,856(h)	This value is calculated to by operation time 24(h)/1(day) x 29 or 30 or 31 (day)/1(month) x 12(month)
71.28kW	Maximum auxiliary electricity when all equipment is operating

All relevant data is submitted to the DOE

Imported electricity from Younghung thermal power plant (meter3) is measured in real time, recording monthly basis.

- During this monitoring period, imported electricity from Younghung thermal power plant is 1.031MWh

- During this monitoring period, imported electricity of Younghung is
 - Measurement of electricity supplied from KEPCO: 58.914MWh
 - Calculation of imported electricity from the thermal power plant #3,#4: 417.415MWh
 - Measurement of electricity supplied from Younghung thermal power plant: 1.031MWh

Total Electricity imported, EI,y: 0.013MWh + 58.914MWh + 417.415MWh + 1.031MWh = 477.373MWh

$$PE_y = EI_y \times EF_y$$

$$PE_y = (0.013\text{MWh} + 417.415\text{MWh} + 1.031\text{MWh}) \times 1.3 \text{ tCO}_2\text{e/MWh} + (58.914\text{MWh} \times 0.5554 \text{ tCO}_2\text{e/MWh})$$

$$= 576.719\text{tCO}_2\text{e}$$

E.3. Calculation of leakage

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Not applicable

E.4. Summary of calculation of emission reductions or net anthropogenic 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)	Emission reductions or net anthropogenic GHG removals by sinks (t CO ₂ e)
Total	46,005	576	0	45,429

E.5. Comparison of actual emission reductions or net anthropogenic 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)	21,189	22,714

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

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The re-calculated value for 12 months from the total 24 month-value is 22,714 tCO₂e and this value equals to 107.2% of 21,189 tCO₂e mentioned in the PDD.

E.7. Actual emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Item	Actual values achieved up to 31 December 2012	Actual values achieved from 1 January 2013 onwards
Emission reductions or GHG removals by sinks (t CO ₂ e)	21,572	23,857

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
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 anthropogenic GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB70, Annex 11).
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).
01	28 May 2010	EB 54, Annex 34. Initial adoption.
Decision Class: Regulatory		
Document Type: Form		
Business Function: issuance		
Keywords: monitoring report, performance monitoring		