

**MONITORING REPORT FORM (CDM-MR)**
Version 01 - in effect as of: 28/09/2010**CONTENTS**

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MONITORING REPORT
Version 02 and date 11/10/2011
Title: Korea Water Resources Corporation (K-water) small-scale hydroelectric power plants project II
(the Seongnam II, the Dalbang-dam, the Juam-dam, Daecheong-dam small-scale hydroelectric)
UNFCCC Reference Number: 0801
3rd Monitoring Period: 01/06/2010 – 31/05/2011

SECTION A. General description of the project activity

A.1. Brief description of the project activity: >>

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- The purpose of the project activity :

The aim of this bundled project activity is to generate electricity and to supply it to the grid using hydro power instead of the fossil fuel, which contributes to mitigation of climate change & sustainable development.

- Measures taken to reduce greenhouse gas emissions :

Since hydro power technology can generate electricity without emitting any greenhouse gas (hereinafter GHG), this project activity contributes to the reduction of GHG by alternating at least one of fossil fuel-fired power plants which would have generated electricity with emitting GHG.

- Installed technology and equipments :

This proposed project bundled four small-scale hydroelectric power plants - the Seongnam II, the Dalbang-dam, the Juam-dam and the Daecheong-dam small scale hydro power plant. And it consists in 2,320kW of facility capacity and power generation of 13,944MWh per year from the bundled four power plants.

Item	Seongnam II	Dalbang-dam	Juam-dam	Daecheong-dam
Unit	1	1	2	2
Generation Capacity	360 kW	170 kW	495 kW × 2	400kW × 2
Total installed Capacity	360 kW	170 kW	990 kW	800kW

- Relevant dates for the project activity:

Item	Seongnam II	Dalbang-dam	Juam-dam	Daecheong-dam
Completion of Construction	31/10/2008	18/02/2007	08/10/2007	18/07/2008
Starting date of operation	01/10/2008	12/02/2007	09/04/2007	20/06/2008
Continued operation	01/10/2008-Present	12/02/2007-Present	09/04/2007-Present	20/06/2008-Present



- Total emission reductions achieved in this monitoring period: 7,697tCO₂

A.2. Project Participants

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Name of Party involved(*) ((host) indicates a host Party)	Private and/or public entity(ies) Project participants(*) (as applicable)	Kindly indicate if the Party Involved wishes to be considered As project participant (Yes/No)
Republic of Korea (Host)	Public entity : Korea Water Resources Corporation(K-water)	No

A.3. Location of the project activity:

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The Seongnam II small-scale hydroelectric power plant:
Sasong-dong, Sujeong-gu, Seongnam city, Gyeonggi-do, Republic of Korea
(latitude of 37°24'48"N and longitude of 127°06'30"E)

The Dalbang-dam small-scale hydroelectric power plant:
Iro-dong, Donghae city, Gangwon-do, Republic of Korea
(latitude of 37°30'16"N and longitude of 129°02'20"E)

The Juam-dam small-scale hydroelectric power plant:
Gwangcheon-ri, Juam-myeon, Suncheon city, Jeollanam-do, Republic of Korea
(latitude of 35°03'54"N and longitude of 127°14'13"E)

The Daecheong-dam small-scale hydroelectric power plant:
Nosan-ri, Hyeondo-myeon, Cheongwon-gun, Chungcheongbuk-do, Republic of Korea
(latitude of 36°27'03"N and longitude of 127°27'07"E)

A.4. Technical description of the project

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1. Type and category (ies) of the project activity

Project Type: I - Renewable energy project

Project Category: D - Grid connected renewable electricity generation

2. Technology/Measure of the project activity

Bundled four small-scale hydroelectric power plants utilize potential energy of water. And this energy is converted to a kinetic energy, which generates electricity without emitting any GHG through rotating water turbines. The total installed capacity is 2,320kW. Refer to the diagrams and tables below.

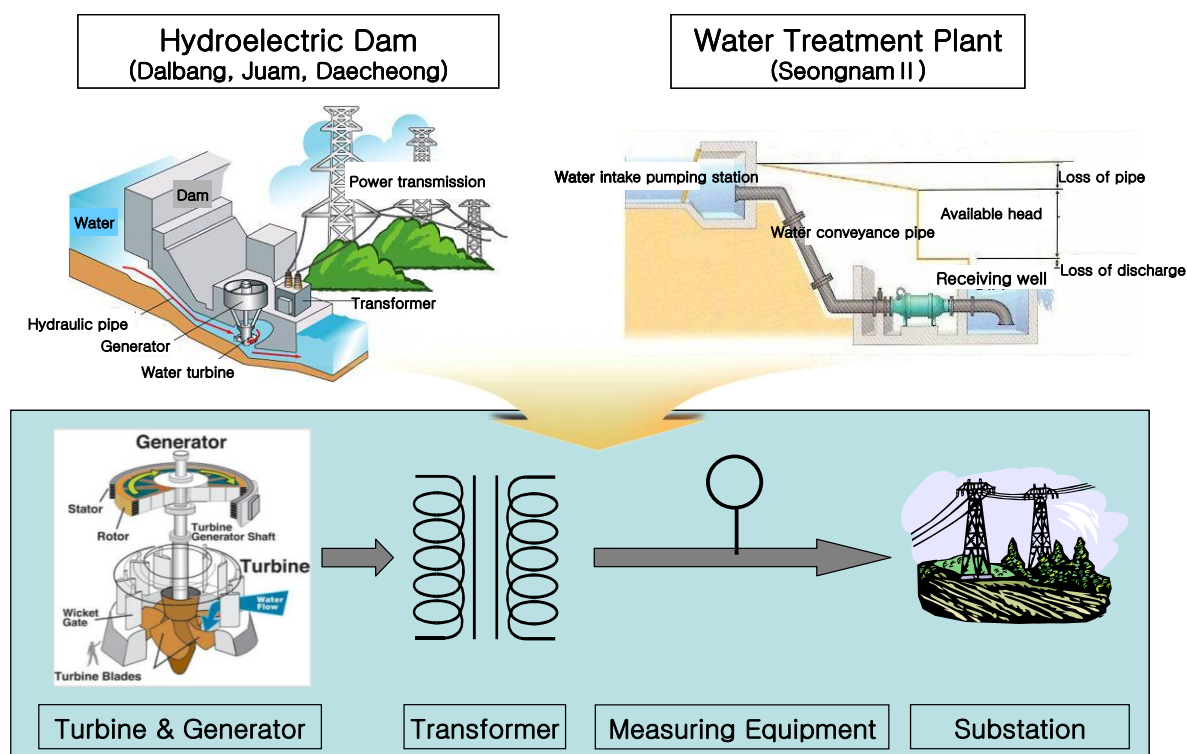


Figure 1. System Diagram of small-scale hydroelectric power plants

Table 1. Description of technology of the small-scale hydroelectric power plants

Item		The Seongnam II small-scale hydroelectric	The Dalbang-dam small-scale hydroelectric	The Juam-dam small-scale Hydroelectric	The Daechong-dam small-scale Hydroelectric
Wheel	Type	Vertical Francis	Horizontal Francis	Horizontal Francis	Propeller (Tubular)
	Output power	384 kW	180 kW	537 kW	413 kW
	Rotation	450 RPM	900 RPM	720 RPM	225 RPM
	Unit	1	1	2	2
Generator	Type	Three-phase induction	Three-phase induction	Three-phase induction	Three-phase induction
	Output power	360 kW	170 kW	495 kW × 2	400 kW × 2
	Rotation	450 RPM	900 RPM	720 RPM	225 RPM
Transformer	Type	Mold type	Mold type	Mold type	Mold type
	capacity	500 kVA	250 kVA	1,500 kVA	1,500 kVA
	Voltage	380 V / 22.9 kV	380 V / 22.9 kV	480 V / 22.9kV	0.6 kV / 22.9 kV
	Connection type	Δ -Y	Δ -Y	Δ -Y	Δ -Y
	Unit	1	1	1	1

**A.5. Title, reference and version of the baseline and monitoring methodology applied to the project activity:**

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The baseline and monitoring methodology of the project referred Appendix B of the simplified modalities and procedures for small-scale CDM project activities.

Approved Methodology: AMS I.D - Grid connected renewable electricity generation (Version 9)

A.6. Registration date of the project activity:

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09/02/2007

A.7. Crediting period of the project activity and related information (start date and choice of crediting period):

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Starting date of the first crediting period: 01/06/2008

Length of the total crediting period: 7 years (01/06/2008 ~ 31/05/2015)

A.8. Name of responsible person(s)/entity(ies):

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The name of the responsible person/entity:

- **Deog-Je, Kim/Korea Water Resources Corporation (K-water)**
Tel. +82-42-629-2962 (kdj@kwater.or.kr)
- **Jung-Suk, Jang/Korea Water Resources Corporation (K-water)**
Tel. +82-42-629-2963 (detente41@kwater.or.kr)

**SECTION B. Implementation of the project activity****B.1. Implementation status of the project activity**

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1. Relevant dates of the project activity:

Item	Seongnam II	Dalbang-dam	Juam-dam	Daecheong-dam
Completion of Construction	31/10/2008	18/02/2007	08/10/2007	18/07/2008
Starting date of operation	01/10/2008	12/02/2007	09/04/2007	20/06/2008
Continued operation	01/10/2008-Present	12/02/2007-Present	09/04/2007-Present	20/06/2008-Present

2. The information regarding the actual operations:

There were some events such as downtimes of equipment, exchange of equipment in two(Juam. Daecheong) sites during the monitoring period from 01 June 2010 to 31 May 2011.

Item	Seongnam II	Dalbang-dam	Juam-dam	Daecheong-dam
Overhaul	N/A	N/A	N/A	N/A
Downtimes	N/A	N/A	08 Aug.-15 Sep. 2010	N/A
Exchange of equipment	N/A	N/A	Exchange of axis, bearing, adapter - generator II : 14-15 Sep. 2010	Exchange of runners, suction valve & pipe - generator I , II : Mar. - Jul. 2011

3. Events or situations which may impact on the applicability of the methodology:

Even though troubles which cause downtimes, exchanges of equipment had been occurred in some small-scale hydroelectric power plants, there were no events may impact on the applicability of the methodology such as increases or decreases in capacity of facilities. And, the implementation of the project had been performed in good conditions generally and followed by the descriptions in the registered PDD.

B.2. Revision of the monitoring plan

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N/A

B.3. Request for deviation applied to this monitoring period

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N/A

B.4. Notification or request of approval of changes

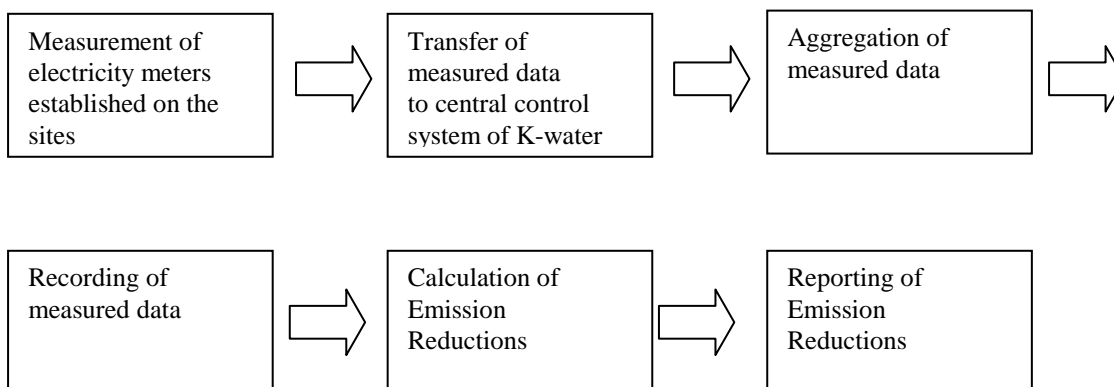
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N/A

SECTION C. Description of the monitoring system

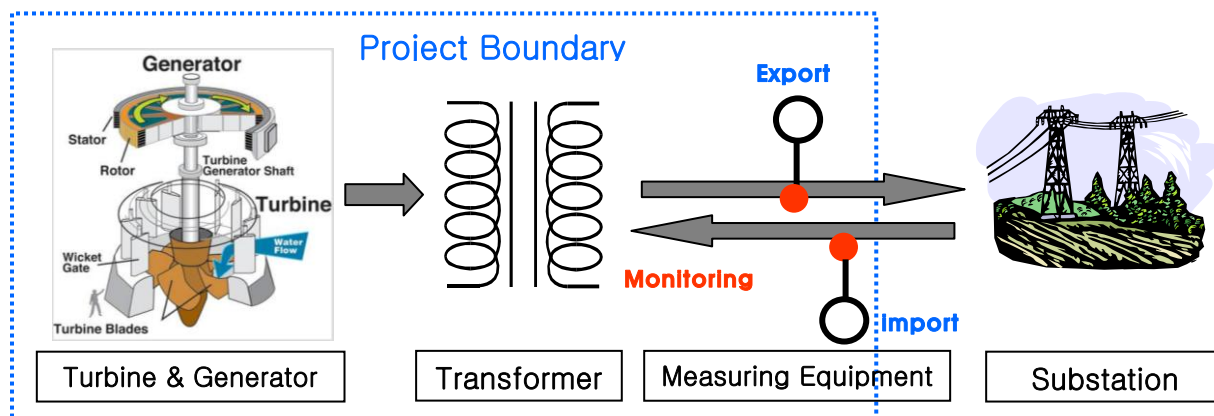
1. Data collection procedure of the electricity exported to the grid

Data collection procedure is as follows;



Procedure	Unit	methods	Frequency	Remarks
Data Measuring	kWh	Automatic	Hourly	
Measured Data Transfer	kWh	Automatic	Daily	
Measured Data Aggregation	kWh	Automatic	Weekly	
Measured Data Recording	kWh	Automatic	Monthly	
Emission Reductions Calculation	tCO ₂	Manual	After the related monitoring periods	
Emission Reductions Reporting	tCO ₂	Manual	After the related monitoring periods	

2. Monitoring Points for the Project

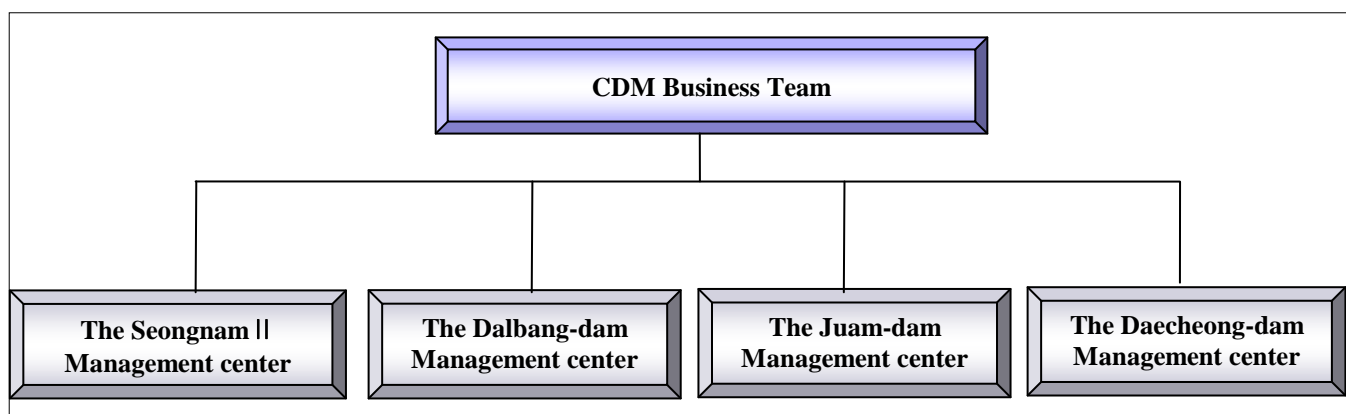


Monitoring Points are located at each places (Seongnam II, Dalbang, Juam, Daecheong). Electricity monitored by wattmeter with accuracy range $\pm 0.5\%$ is delivered to the grid by the project.

3. QA/QC procedures

- Measuring meter of electricity exported to the grid was set up transparently in accordance with “Law regarding measurement” and “Act on operation of electricity market” then sealed after affirmation of Korea Power Exchange.
- The meters were calibrated when they were installed, and re-calibrated every three years after installation.
- The amount of electricity exported to the grid is measured automatically by established meters. The measured data are simultaneously transferred to central control system of K-water and Korea Power Exchange.
- The collected data of electricity exported to the grid was double checked with those of Korea Power Exchange.

4. Monitoring organization structure, roles and responsibilities



Department in charge of monitoring for the project and responsible department are as follows:

- Department in charge of monitoring (including Operation & Maintenance of facilities. etc.)
: the Seongnam II management center, Dalbang-dam management center, the Juam-dam management center, Daecheong-dam management center.
- Responsible department (project management, Emission Reductions calculation and reporting)
: CDM Business Team

5. Emergency procedure:

- In case unexpected accident which affects Emission Reductions is occurred, the person in charge of monitoring should report to the responsible department(CDM Business Team) and act according to the internal manual in emergency.
- In case measuring meters of the electricity supplied to the grid 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 determined at registration and not monitored during the monitoring period, including default values and factors**

Data / Parameter:	EF _{OM}
Data unit:	tCO ₂ /MWh
Description:	operating margin emission factor
Source of data used:	calculated
Value(s) :	0.7710
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	- This value was calculated according to <i>Tool to calculate the emission factor for an electricity system</i> . Applied value was calculated by referring Statistics of Electric Power in KOREA (2003, 2004, 2005) (KEPCO). - This value is used for CO ₂ emissions factor of grid (EF).
Additional comment:	This value is supposed to be calculated once at the time of PDD submission.

Data / Parameter:	EF _{BM}
Data unit:	tCO ₂ /MWh
Description:	build margin emission factor
Source of data used:	calculated
Value:	0.4718
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	- This value was calculated according to <i>Tool to calculate the emission factor for an electricity system</i> . Applied value was calculated by referring Statistics of Electric Power in KOREA (2003, 2004, 2005) (KEPCO). - This value is used for CO ₂ emissions factor of grid (EF).
Additional comment:	This value is supposed to be calculated once at the time of PDD submission.

Data / Parameter:	EF
Data unit:	tCO ₂ /MWh
Description:	CO ₂ emissions factor of grid
Source of data used:	calculated
Value(s) :	0.6214
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	- This value was calculated according to <i>Tool to calculate the emission factor for an electricity system</i> . Applied value was calculated by referring Statistics of Electric Power in KOREA (2003, 2004, 2005) (KEPCO). - This value is used for baseline emission calculations.
Additional comment:	This value is supposed to be calculated once at the time of PDD submission.

D.2. Data and parameters monitored



▪ Seongnam II

Data / Parameter:	EE _{1,y}
Data unit:	MWh
Description:	Electricity exported to the grid from Seongnam II small-scale power plant
Measured /Calculated/Default:	Measured
Source of data:	Electricity meter
Value(s) of monitored parameter:	Total electricity generation is 1,371.348 MWh.
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	This value is used for baseline emission calculations.
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Measurement equipment: Watt-hour meter Accuracy: Allowable error range $\pm 0.5\%$ Serial number: 51001382 Calibration information - Number of meters: 1 meter - Calibration Frequency: within 3 years - Date of last calibration: 22/09/2008 - Validity period: 22/09/2008 – 21/09/2011
Measuring/ Reading/ Recording frequency:	Measuring/Reading: hourly Recording: monthly
Calculation method (if applicable):	N/A
QA/QC procedures applied:	The amount of electricity transmitted to the grid was automatically measured and transferred to Korea Power Exchange (KPX) and K-water, so it was double checked by both entities.

▪ Dalbang-dam

Data / Parameter:	EE _{2,y}
Data unit:	MWh
Description:	Electricity exported to the grid from Dalbang-dam small-scale power plant
Measured /Calculated/Default:	Measured
Source of data:	Electricity meter
Value(s) of monitored parameter:	Total electricity generation is 323.351 MWh.
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	This value is used for baseline emission calculations.
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Measurement equipment: Watt-hour meter Accuracy: Allowable error range $\pm 0.5\%$ Serial number: 6063962 Calibration information - Number of meters: 1 meter - Calibration Frequency: within 3 years - Date of last calibration: 26/05/2009 - Validity period: 26/05/2009 – 25/05/2012
Measuring/ Reading/ Recording frequency:	Measuring/Reading: hourly Recording: monthly



Calculation method (if applicable):	N/A
QA/QC procedures applied:	The amount of electricity transmitted to the grid was automatically measured and transferred to Korea Power Exchange (KPX) and K-water, so it was double checked by both entities.

▪ Juam-dam

Data / Parameter:	EE _{3,y}
Data unit:	MWh
Description:	Electricity exported to the grid from Juam-dam small-scale power plant
Measured /Calculated/Default:	Measured
Source of data:	Electricity meter
Value(s) of monitored parameter:	Total electricity generation is 6,800.111 MWh.
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	This value is used for baseline emission calculations.
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Measurement equipment: Watt-hour meter Accuracy: Allowable error range $\pm 0.5\%$ Serial number: 6063960 Calibration information - Number of meters: 1 meter - Calibration Frequency: within 3 years - Date of last calibration: 22/09/2009 - Validity period: 22/09/2009 – 21-09/2012
Measuring/ Reading/ Recording frequency:	Measuring/Reading: hourly Recording: monthly
Calculation method (if applicable):	N/A
QA/QC procedures applied:	The amount of electricity transmitted to the grid was automatically measured and transferred to Korea Power Exchange (KPX) and K-water, so it was double checked by both entities.

▪ Daechong-dam

Data / Parameter:	EE _{4,y}
Data unit:	MWh
Description:	Electricity exported to the grid from Daechong-dam small-scale power plant
Measured /Calculated/Default:	Measured
Source of data:	Electricity meter
Value(s) of monitored parameter:	Total electricity generation is 3,960.233 MWh.
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	This value is used for baseline emission calculations.
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of	Measurement equipment: Watt-hour meter Accuracy: Allowable error range $\pm 0.5\%$ Serial number: 4543285



last calibration, validity)	Calibration information - Number of meters: 1 meter - Calibration Frequency: within 3 years - Date of last calibration: 29/03/2011 - Validity period: 29/03/2011 – 28/03/2014
Measuring/ Reading/ Recording frequency:	Measuring/Reading: hourly Recording: monthly
Calculation method (if applicable):	N/A
QA/QC procedures applied:	The amount of electricity transmitted to the grid was automatically measured and transferred to Korea Power Exchange (KPX) and K-water, so it was double checked by both entities.

▪ Seongnam II

Data / Parameter:	EI _{1,y}
Data unit:	MWh
Description:	Electricity imported from the grid for Seongnam II small-scale power plant
Measured /Calculated/Default:	Measured
Source of data:	Electricity meter
Value(s) of monitored parameter:	Total imported electricity is 18.158 MWh.
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	This value is used for baseline emission calculations.
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Measurement equipment: Watt-hour meter (digital type) Accuracy: Allowable error range $\pm 0.5\%$ Serial number: 8041082 Calibration information - Number of meters: 1 meter - Calibration Frequency: within 3 years - Date of last calibration: 25/04/2008 - Validity period: 25/04/2008 – 24/04/2011 *The product of electricity imported from the grid and maximum permissible error of the meter(0.5%) was added during the delayed period(2months : Apr.-May 2011)
Measuring/ Reading/ Recording frequency:	EI _{1,y} is measured and recorded monthly.
Calculation method (if applicable):	N/A
QA/QC procedures applied:	The amount of electricity imported from the grid is measured and recorded with photos by K-water.

▪ Dalbang-dam

Data / Parameter:	EI _{2,y}
Data unit:	MWh
Description:	Electricity imported from the grid for Dalbang-dam small-scale power



	plant
Measured /Calculated/Default:	Measured
Source of data:	Electricity meter
Value(s) of monitored parameter:	Total imported electricity is 14.174 MWh.
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	This value is used for baseline emission calculations.
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Measurement equipment: Watt-hour meter (analog type) Accuracy: Allowable error range $\pm 2\%$ Serial number: 886926 Calibration information - Number of meters: 1 meter - Calibration Frequency: within 3 years - Date of last calibration: June 2009 - Validity period: June 2009 – May 2012
Measuring/ Reading/ Recording frequency:	El _{2,y} is measured and recorded monthly.
Calculation method (if applicable):	N/A
QA/QC procedures applied:	The amount of electricity imported from the grid is measured and recorded with photos by K-water.

▪ Juam-dam

Data / Parameter:	El _{3,y}
Data unit:	MWh
Description:	Electricity imported from the grid for Juam-dam small-scale power plant
Measured /Calculated/Default:	Measured
Source of data:	Electricity meter
Value(s) of monitored parameter:	Total imported electricity is 15.033 MWh.
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	This value is used for baseline emission calculations.
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Measurement equipment: Watt-hour meter (digital type) Accuracy: Allowable error range $\pm 2\%$ Serial number: 100140191 Calibration information - Number of meters: 1 meter - Calibration Frequency: within 3 years - Date of last calibration: 11 Jan. 2010 - Validity period: 11 Jan. 2010 – 10 Jan. 2013
Measuring/ Reading/ Recording frequency:	El _{3,y} is measured and recorded monthly
Calculation method (if applicable):	N/A
QA/QC procedures applied:	The amount of electricity imported from the grid is measured and recorded with photos by K-water.



▪ Daecheong-dam

Data / Parameter:	EI _{4,y}
Data unit:	MWh
Description:	Electricity imported from the grid for Daecheong-dam small-scale power plant
Measured /Calculated/Default:	Measured
Source of data:	Electricity meter
Value(s) of monitored parameter:	Total imported electricity is 20.337 MWh.
Indicate what the data are used for (Baseline/ Project/ Leakage emission calculations)	This value is used for baseline emission calculations.
Monitoring equipment (type, accuracy class, serial number, calibration frequency, date of last calibration, validity)	Measurement equipment: Watt-hour meter (digital type) Accuracy: Allowable error range $\pm 0.5\%$ Serial number: G470002 Calibration information - Number of meters: 1 meter - Calibration Frequency: within 3 years - Date of last calibration: 06/07/2007 - Validity period: 06/07/2007 – 05/07/2010 *The product of electricity imported from the grid and maximum permissible error of the meter(0.5%) was added during the delayed period(11months :Jul.2010-May 2011)
Measuring/ Reading/ Recording frequency:	EI _{4,y} is measured and recorded monthly
Calculation method (if applicable):	N/A
QA/QC procedures applied:	The amount of electricity imported from the grid is measured and recorded with photos by K-water.

**SECTION E. Emission reductions calculation****E.1. Baseline emissions calculation**

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According to the formula below, baseline emissions for this project is 7,697 tCO₂.

$$BE_y = EG_y \times EF_y$$

BE_y	=	Baseline emissions(tCO₂)
EG_y	=	Net electricity generation(MWh) : EE_y – EI_y
EF_y	=	Baseline emission factor(tCO₂/MWh)

Section		Seongnam II	Dalbang-Dam	Juam-Dam	Daecheong-Dam	Subtotal (kWh)	Baseline Emission Factor (tCO ₂ /MWh)	Baseline Emissions (tCO ₂)
		Electricity (kWh)	Electricity (kWh)	Electricity (kWh)	Electricity (kWh)			
2010	JUN.	133,663	0	654,084	434,995	1,222,742	0.6214	759.8
	JUL.	159,260	9,840	22,089	265,764	456,953	0.6214	283.9
	AUG.	154,249	1,633	340,994	286,628	783,504	0.6214	486.8
	SEP.	138,081	67,445	410,809	375,171	991,506	0.6214	616.1
	OCT.	71,688	33,014	680,952	335,421	1,121,075	0.6214	696.6
	NOV.	26,544	9,316	628,798	250,214	914,872	0.6214	568.5
	DEC.	133,766	9,405	653,264	277,071	1,073,506	0.6214	667.0
2011	JAN.	130,395	9,281	687,657	494,671	1,322,004	0.6214	821.4
	FEB.	93,699	8,778	638,640	442,037	1,183,154	0.6214	735.2
	MAR.	97,602	24,258	712,746	349,708	1,184,314	0.6214	735.9
	APR.	110,845	27,253	686,503	230,507	1,055,108	0.6214	655.6
	MAY	121,556	123,128	683,575	218,046	1,146,305	0.6214	712.3
TOTAL(A)		1,371,348	323,351	6,800,111	3,960,233	12,455,043	0.6214	7,739.1
Electricity Imported(B)		18,140	14,174	15,033	20,250	67,597		
Adjusted value of the electricity imported(B')		18,158	14,174	15,033	20,337	67,703		
Net electricity Generation (A-B')		1,353,190	309,177	6,785,078	3,939,896	12,387,340	0.6214	7,697.4

E.2. Project emissions calculation

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GHG emissions due to the project activity are not occurred.

Project emission is zero;

PE = 0.

E.3. Leakage calculation

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Leakage due to the project activity is not occurred.

Project leakage is zero;

PL = 0.

E.4. Emission reductions calculation / table

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ER(Emission reductions) = BE – PE – PL = 7,697 – 0 – 0 = 7,697

(unit : tCO₂)

Period	Baseline Emissions	Project Emissions	Leakage	Emission Reductions
1 st Jun. 2010 ~ 31 st May. 2011	7,697	0	0	7,697

∴ According to the table above, total emission reductions are 7,697 tCO₂.

E.5. Comparison of actual emission reductions with estimates in the CDM-PDD

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Item	Values applied in ex-ante calculation of the registered CDM-PDD	Actual values reached during the monitoring period
Emission reductions (tCO ₂)	8,664	7,697

This project was estimated to reduce 8,664 tCO₂e according to the registered CDM-PDD. But during the 3rd monitoring period from 1st June 2010 to 31st May 2011, the net electricity supplied to the grid was 12,387,340 kWh, which resulted in reducing of 7,697 tCO₂e. Therefore, the actual value was lower by 967 tCO₂e than the estimated value in CDM-PDD.

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

>>

The emission reductions totally depend on the electricity generation in this project and the amount of electricity generation was increased compared to those of 2nd monitoring period but slightly lower than the estimates in CDM-PDD. Therefore, we confirm there is no significant increase during this monitoring period.