

Clean Development Mechanism Monitoring Report

# **Sudokwon Landfill Gas Electricity Generation Project (50MW)**

Monitoring report No. : 01

Version: 1.03

CDM registration ref No.: 0941

Monitoring period: 30/04/2007 - 30/11/2007

Date: 12 March 2008



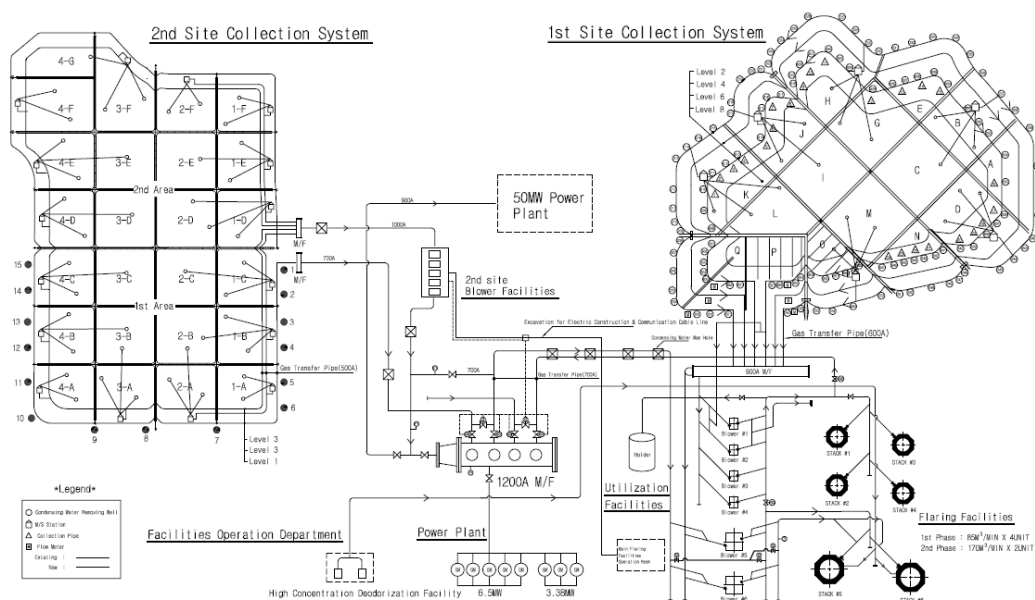
## Project information

The Sudokwon Landfill is the largest dumping site in Korea, dealing with wastes from Seoul, Incheon and Kyonggi province. From 1992 to 2005 cumulative waste amounts 97,074 kilo tonnes and yearly average waste to 6,934 kilo tonnes.<sup>1</sup> The landfill site is composed of 4 sites. 1st site was reclaimed from 1992 to 2000 and 2nd site which succeeded 1st site has been reclaimed since 2000. 3<sup>rd</sup> and 4<sup>th</sup> site are plan to be reclaimed in the future. Central incineration station is composed of 6 units. 4 units were installed in 1996 as 1st phase and the other 2 units in 1998 as 2nd phase. Existing 6.5MW power plant was installed in 2001 and 3.38MW power plant in 2003.

In previous decade, most of the LFG was destroyed by central flaring facility and only the rest was destroyed by 6.5MW & 3.38MW power plant. In 2004, 87.2 % of collected LFG was flared and 11.9 % of LFG was used for generation. When 50MW power plant is installed, most of LFG will be destroyed by this facility and only the rest will be destroyed by 6.5MW & 3.38 MW power plant and central flaring facility. Also, existing temporary burners will be pulled down and a park will be installed at this location, which results in improvement of LFG collection rate.

This project is composed of (1) expansion of the collection system and (2) construction of the 50MW LFG power plant using steam turbine which replaces the existing facilities. It is expected to reduce 1,210,342 tCO<sub>2</sub>e greenhouse gases during 10 years, from 2007 to 2017.

The Schematic overview of the Sudokwon Landfill CDM project is shown below;



<sup>1</sup> Refer to Sudokwon Landfill Site Statistics Year Book (2005)

'Sudokwon Landfill Gas Electricity Generation Project' has been registered as CDM project by UNFCCC on 30 April 2007 under reference number 0941.

More details of the project can be found in the Project Design Document (PDD) and related documents, which are available on the UNFCCC website.

<http://cdm.unfccc.int/Projects/DB/DNV-CUK1171534717.86/view>

According to the PDD, the crediting period started the 1<sup>st</sup> April 2007 for a period of 10years, but this project registered on 30 April 2007. In accordance with the Conference of the Parties decision 17/CP.7<sup>2</sup>, the start date of the crediting period has been changed to the date of registration (30. Apr. 2007).

## Project participant (1)

Project participants are described as below.

Sudokwon Landfill site management Corporation (SLC) - Republic of Korea

## Monitoring background

Monitoring and calculation is performed with Approved methodologies (ACM0001<sup>3</sup> and ACM0002<sup>4</sup>) and monitoring plan in PDD.

All continuously measured parameters (LFG flow, CH<sub>4</sub> concentration, flare temperature, electricity generation etc.), will be recorded electronically via a data logger, which will have the capacity to aggregate and print the collected data at the frequencies as specified above.

### Data monitoring

The data will be measured/collected at each control system of the 50MW S/T, flaring system and existing power plant (9.88 MW G/T). This data will be reported and archived in a month. To inspect the state of capturing facility, composition, flow, pressure and temperature of each capturing facility will be estimated every week. And also flow and oxygen volume of landfill gas

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<sup>2</sup> "...certified emission reductions shall only be issued for a crediting period starting after the date of registration of a clean development mechanism project activity."

<sup>3</sup> Consolidated baseline methodology for landfill gas project activities (ver.04, valid from 28 Jul 06 to 21 Dec 06)

<sup>4</sup> Consolidated baseline methodology for grid-connected electricity generation from renewable sources (ver.06, valid from 19 May 06 onwards)

transfer will be estimated every two weeks.

Gas flow and other related parameters are recorded every 2-hours electronically. Also every recorded electronical data is recorded in handwritten form. Related data are measured by means of cross checking between MMI and handwriting. The fraction of CH<sub>4</sub> in LFG is measured by using gas analyzers.

The CH<sub>4</sub> fraction of LFG is measured continuously and related data are measured by means of cross checking between MMI and handwriting and only the CH<sub>4</sub> is considered in the CDM monitoring procedure. The Sudokwon Landfill Corporation receives MMI files and copies of the handwritten records of CH<sub>4</sub> fraction data once a week.

Power consumption data is recorded electronically by SLC's power monitoring system on hourly basis and is submitted to CDM personnel in SLC once a week.

The incineration efficiency is regarded as 99.999% when the incineration temperature exceeds 600°C. The incineration efficiency is regarded as 0% when the incineration temperature is less than 600°C. The amount of the gas incinerated is connected to the temperature sensors and is recorded when the temperature exceeds 600°C. The incineration efficiency is recalculated a year by analyzing the CH<sub>4</sub> content of the incineration gas.

#### Data management

The data from control station will be analyzed and estimated for the verification of this project. Technical support will be required if necessary. We will analyze a sample gas to measure an accurate composition of landfill gas and this result will be included in operational guide. The operational guide should include monitoring procedure, operation, maintenance, problem solving procedure, monitoring system.

#### Instrument Calibration and maintenance

The manager always will check the data to optimize the condition of facility for collecting accurate data. If unusual data is detected, a field study will be conducted by engineer. The control of meter should be achieved by following document for meter control procedure.

All the instruments related to CDM are calibrated once a year and all the certification documents for the measuring instruments should be provided by the supplier. Calibration result certificates are being stored in SLC CDM department for the period of 12 years. Calibration procedure is undertaken directly by the SLC CDM team. In order to minimize any loss of data, the

calibration procedure is undertaken by the rotation of two managers. The measuring instrument is removed from site and delivered to the calibration agency for calibration. The instruments will be returned after calibration process.

In the case of the measuring instrument being removed for calibration, SLC will replace with spare parts. In addition, Instruments with defects should is to be replaced.

## Monitoring Results

### Calculated emission reduction

The Calculated emission reduction during the monitoring period is 557,837.6 ton CO<sub>2</sub>eq.

### Monitoring Period

This is the first monitoring report of this CDM project. It covers the period from 30<sup>th</sup> April 2007 to 30<sup>th</sup> November 2007.

### Presentation of Results

The result of the total emission reduction from the monitoring period is shown below;

2007	April	2,064.6 tCO <sub>2</sub> e
	May	71,106.9 tCO <sub>2</sub> e
	June	76,123.9 tCO <sub>2</sub> e
	July	60,013.6 tCO <sub>2</sub> e
	August	70,895.0 tCO <sub>2</sub> e
	September	75,913.1 tCO <sub>2</sub> e
	October	100,264.2 tCO <sub>2</sub> e
	November	101,456.3 tCO <sub>2</sub> e
	Total	557,837.6 tCO <sub>2</sub> e

All monitoring data during the first period have been included in the excel workbook. The workbook includes the following parts;

- 1) Total CERs calculation sheet
- 2) LFG comparison calculation sheet
- 3) 1<sup>st</sup> landfill LFG flow calculation sheet
- 4) 2<sup>nd</sup> landfill LFG flow calculation sheet
- 5) 50MW power facility LFG flow calculation sheet
- 6) Flaring centre LFG flow calculation sheet
- 7) 9.88MW power facility LFG flow calculation sheet
- 8) CH<sub>4</sub> fraction calculation sheet
- 9) 1<sup>st</sup> landfill CH<sub>4</sub> fraction calculation sheet
- 10) 2<sup>nd</sup> landfill CH<sub>4</sub> fraction calculation sheet
- 11) Electricity generation calculation sheet
- 12) Transmission to national grid sheet (Data provided by Korea Power Exchange)
- 13) Electricity consumption in main LFG management center calculation sheet
- 14) Electricity consumption in 2<sup>nd</sup> landfill LFG centre calculation sheet
- 15) LFG temperature calculation sheet
- 16) LFG pressure calculation sheet

Each section of the data workbook consists of the following elements; Calculation results, raw data.

The data workbook is submitted to the DOE, but it is not disclosed on the website.

#### Calculation Methodology

The factors monitored and formula used to calculate total emission reductions during the monitoring period is as follows;

The following formulae will be used to estimate emission reductions for the project activity

$$ER_y = (MD_{project,y} - MD_{reg,y}) \times GWP_{CH_4} + EL_y \times CEF_{electricity,y}$$

- $ER_y$  is the emission reductions, measured in  $tCO_2e$
- $MD_{project,y}$  is the amount of methane actually destroyed/combusted during time period  $t$ , measured in  $tCH_4$
- $MD_{reg,y}$  is the amount of methane that would have been destroyed/combusted during time period  $t$  in the absence of the project activity, measured in  $tCH_4$
- $GWP_{CH_4}$  is the approved Global Warming Potential value for methane, 21  $tCO_2e/tCH_4$
- $EL_y$  is net quantity of electricity displaced during a given period  $t$ , measured in MWh
- $CEF_{electricity,y}$  is the  $CO_2$  emissions intensity of the electricity displaced, measured in  $tCO_2e/MWh$

*Considering that there is no regulatory or contractual requirement determining  $MD_{reg}$ , an adjustment factor (AF) is used in the Sudokwon Landfill project:*

$$MD_{reg,y} = MD_{project,y} \times AF (61.15\%)$$

The methane destroyed by the project activity during a given time period can be determined by the following: monitoring the quantity of methane actually flared and LFG used to generate electricity and to produce thermal energy. For the proposed project activity,  $MD_{thermal} = 0$ , as there is no thermal energy generation component of the project and central flaring facility is just for emergency and maintenance case. As a result, the total actual quantity of methane captured and destroyed will be metered ex post once the project activity is operated, and:

$$MD_{project} = MD_{electricity,y} + MD_{flare,y}$$



$$MD_{project,y} = (LFG_{electricity,y} \times w_{CH_4} \times D_{CH_4}) + (LFG_{flare,y} \times w_{CH_4} \times D_{CH_4} \times FE)$$

- $MD_{electricity,y}$  is the quantity of methane destroyed by combustion in electricity generation facility in a given time period  $t$ , measured in  $tCH_4$
- $MD_{flare,y}$  is the quantity of methane destroyed by flaring facility in a given time period  $t$ , measured in  $tCH_4$
- $LFG_{electricity,y}$  is average flow of LFG fed into electricity generator during specified monitoring period  $y$ , measured in cubic meters( $m^3$ )
- $w_{CH_4}$  is the average methane fraction of the landfill gas as measured during the given time period  $t$  and expressed as a fraction of  $CH_4$  volume per LFG volume( $m^3 CH_4/m^3$  of LFG)
- $D_{CH_4,y}$  is the methane density, expressed in tonnes of methane per cubic meter of methane ( $tCH_4/m^3 CH_4$ ), and measured at STP(0 degree Celsius and 1.013 bar), which is 0.0007168  $tCH_4/m^3 CH_4$ (as per consolidated methodology ACM0001)
- $LFG_{flare,y}$  is average flow of LFG fed into flaring system during specified monitoring period  $y$ , measured in cubic meters( $m^3$ )
- FE : flare/combustion efficiency(%)

The CO<sub>2</sub> emissions intensity of the electricity displaced (EF) is calculated as a combined margin, consisting of the combination of operating margin (OM) and build margin (BM) factors according to the following three steps as per approved methodology ACM0002:

#### Step1 - Calculation of the Operating Margin emission factor (OM)

$$EF_{OM, simple, y} = \frac{\sum_{i,j} F_{i,j,y} \cdot COEF_{i,j}}{\sum_j GEN_{j,y}}$$

- $F_{i,j,y}$  is the amount of fuel (mass or volume)  $i$  consumed by relevant sources  $j$  in year(s)  $y$ ,
- $j$  refers to the power sources delivering electricity to the grid not including low-operating cost and must run plants, including imports to the grid,
- $COEF_{i,j}$  is the CO<sub>2</sub> emission coefficient of fuel ( $tCO_2$ /mass or volume) taking into account the carbon content of the fuels used by the relevant power sources  $j$  and the percent oxidation of the fuel in year(s)  $y$ , and
- $GEN_{i,j}$  is the electricity(MWh) delivered to the grid by source  $j$ .

## Step2 - Calculation of the Build Margin (BM)

$$EF_{BM,y} = \frac{\sum_{i,m} F_{i,m,y} \cdot COEF_{i,m}}{\sum_m GEN_{m,y}}$$

- $F_{i,j,y}$ ,  $COEF_{i,j}$  and  $GEN_{i,j}$  are analogous to the variables described for the simple OM method above for plants m.

## Step3 - Calculation of the baseline emission factor

$$EF_y = w_{OM} \cdot EF_{OM,y} + w_{BM} \cdot EF_{BM,y}$$

- $w_{OM}$  and  $w_{BM}$  is weights by default, are 50%(=0.50)

The result of the calculation of OM/BM is shown below;

Operating Margin	2003 Sub total	0.7857
	2004 Sub total	0.7541
	2005 Sub total	0.7559
	2003-2005 Average	0.7652
Build Margin	2005	0.3679
Combined Margin		0.5666

The combined margin value is fixed throughout the CDM project period.

Date	LFG collected	Temp	Pressure	CH <sub>4</sub> concentration	CH <sub>4</sub> collected	ER from CH <sub>4</sub> combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	Nm <sup>3</sup> /day	°C	mmAq	%	Nm <sup>3</sup> /day	tCO <sub>2</sub> / day	tCO <sub>2</sub>	MWh	MWh	MWh	tCO <sub>2</sub>	tCO <sub>2</sub>
2007-04-30	577,110.6	40.3	634.5	49.4	285,238.9	4,293.6	1,668.1	709.2	9.3	699.9	396.6	2,064.6
2007-05-01	572,442.6	40.1	676.3	49.4	282,944.8	4,259.1	1,654.7	709.0	7.7	701.4	397.4	2,052.1
2007-05-02	581,388.5	40.2	708.6	49.2	285,994.2	4,305.0	1,672.5	707.9	0.0	707.9	401.1	2,073.6
2007-05-03	580,596.5	40.2	679.8	49.2	285,854.6	4,302.9	1,671.7	707.5	0.0	707.5	400.9	2,072.5
2007-05-04	574,435.6	39.9	702.3	49.5	284,588.9	4,283.9	1,664.3	707.6	0.0	707.6	401.0	2,065.2
2007-05-05	573,848.6	40.6	713.8	49.9	286,461.6	4,312.0	1,675.2	707.7	0.0	707.7	401.0	2,076.2
2007-05-06	572,724.6	41.0	691.7	50.3	287,940.7	4,334.3	1,683.9	708.3	0.0	708.3	401.3	2,085.2
2007-05-07	572,265.6	40.8	708.4	50.1	286,565.7	4,313.6	1,675.8	706.9	56.4	650.5	368.6	2,044.4
2007-05-08	574,600.6	41.0	703.8	49.8	286,310.6	4,309.8	1,674.3	707.4	9.1	698.3	395.6	2,070.0
2007-05-09	573,556.6	40.8	709.1	50.4	289,058.1	4,351.1	1,690.4	707.9	9.2	698.7	395.9	2,086.3
2007-05-10	572,702.6	40.9	679.2	50.3	288,327.9	4,340.1	1,686.1	708.1	9.2	698.8	395.9	2,082.1
2007-05-11	568,130.7	41.8	673.9	50.6	287,365.2	4,325.7	1,680.5	708.2	0.4	707.8	401.1	2,081.6
2007-05-12	269,677.7	41.0	668.0	52.1	140,563.1	2,115.9	822.0	179.4	0.0	179.4	101.6	923.6
2007-05-13	599,744.4	40.6	749.9	52.6	315,349.8	4,746.9	1,844.2	637.0	0.0	637.0	360.9	2,205.1
2007-05-14	641,838.6	40.4	674.1	52.0	333,444.1	5,019.3	1,950.0	779.4	0.0	779.4	441.6	2,391.6
2007-05-15	633,726.6	41.1	657.8	51.5	326,316.9	4,912.0	1,908.3	764.2	0.0	764.2	433.0	2,341.3
2007-05-16	639,240.0	40.5	543.1	51.0	325,777.0	4,903.9	1,905.1	772.7	49.5	723.2	409.8	2,314.9
2007-05-17	514,110.4	34.0	609.3	50.4	259,242.2	3,902.3	1,516.1	533.1	7.9	525.2	297.6	1,813.6
2007-05-18	417,712.3	25.1	625.8	50.0	208,918.2	3,144.8	1,221.8	367.6	7.1	360.5	204.3	1,426.0
2007-05-19	449,156.8	29.3	546.2	50.7	227,514.4	3,424.7	1,330.5	493.0	7.5	485.5	275.1	1,605.6

Date	LFG collected	Temp	Pressure	CH <sub>4</sub> concentration	CH <sub>4</sub> collected	ER from CH <sub>4</sub> combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	N m <sup>3</sup> /day	°C	mmAq	%	N m <sup>3</sup> /day	tCO <sub>2</sub> / day	tCO <sub>2</sub>	MWh	MWh	MWh	tCO <sub>2</sub>	tCO <sub>2</sub>
2007-05-20	627,240.0	40.6	611.4	51.6	323,917.6	4,875.9	1,894.3	783.5	9.3	774.2	438.6	2,332.9
2007-05-21	632,994.6	41.6	566.3	51.2	323,937.1	4,876.2	1,894.4	782.6	9.4	773.2	438.1	2,332.5
2007-05-22	641,280.7	42.4	560.1	50.9	326,411.7	4,913.4	1,908.9	781.5	0.0	781.5	442.8	2,351.7
2007-05-23	685,541.6	43.1	608.4	51.8	355,176.3	5,346.4	2,077.1	855.7	18.9	836.9	474.2	2,551.2
2007-05-24	744,843.6	43.1	603.2	54.0	402,108.0	6,052.9	2,351.5	1,004.7	9.8	995.0	563.8	2,915.3
2007-05-25	744,311.6	42.9	596.1	54.3	404,212.1	6,084.5	2,363.8	1,005.5	9.7	995.8	564.2	2,928.1
2007-05-26	748,479.6	43.3	609.1	54.2	405,982.7	6,111.2	2,374.2	1,008.6	0.8	1,007.8	571.0	2,945.2
2007-05-27	750,257.6	44.1	606.5	54.3	407,635.3	6,136.1	2,383.9	1,006.2	0.0	1,006.2	570.1	2,953.9
2007-05-28	755,964.6	44.3	593.8	54.5	411,993.3	6,201.7	2,409.3	1,017.4	27.8	989.5	560.7	2,970.0
2007-05-29	772,525.6	43.7	596.7	53.7	415,065.0	6,247.9	2,427.3	1,051.9	0.0	1,051.9	596.0	3,023.3
2007-05-30	783,188.7	43.8	612.2	52.4	410,174.1	6,174.3	2,398.7	1,052.9	20.3	1,032.6	585.1	2,983.8
2007-05-31	791,780.7	44.4	587.3	52.2	413,431.9	6,223.3	2,417.8	1,051.6	10.1	1,041.5	590.1	3,007.9
2007-06-01	789,405.7	44.2	599.5	51.2	404,002.9	6,081.4	2,362.6	1,055.0	10.0	1,044.9	592.1	2,954.7
2007-06-02	786,898.8	44.7	535.9	51.2	402,738.3	6,062.3	2,355.2	1,052.1	10.0	1,042.2	590.5	2,945.7
2007-06-03	788,480.8	45.1	516.7	50.7	399,983.0	6,020.9	2,339.1	1,047.4	10.0	1,037.4	587.8	2,926.9
2007-06-04	793,182.8	45.0	517.6	50.2	398,498.5	5,998.5	2,330.4	1,042.8	10.1	1,032.6	585.1	2,915.5
2007-06-05	789,405.8	44.6	540.2	50.1	395,866.4	5,958.9	2,315.0	1,034.0	10.2	1,023.8	580.1	2,895.1
2007-06-06	790,900.8	44.6	521.4	49.5	391,439.9	5,892.3	2,289.1	1,032.6	10.2	1,022.4	579.3	2,868.4
2007-06-07	795,649.8	44.4	518.5	49.4	393,439.1	5,922.4	2,300.8	1,030.1	10.0	1,020.1	578.0	2,878.8
2007-06-08	773,113.8	44.7	497.2	49.7	384,093.0	5,781.7	2,246.2	996.7	10.0	986.8	559.1	2,805.3

Date	LFG collected	Temp	Pressure	CH <sub>4</sub> concentration	CH <sub>4</sub> collected	ER from CH <sub>4</sub> combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	Nm <sup>3</sup> /day	°C	mmAq	%	Nm <sup>3</sup> /day	tCO <sub>2</sub> / day	tCO <sub>2</sub>	MWh	MWh	MWh	tCO <sub>2</sub>	tCO <sub>2</sub>
2007-06-09	760,082.7	45.4	558.5	49.9	379,450.4	5,711.8	2,219.0	968.4	9.9	958.5	543.1	2,762.1
2007-06-10	749,007.8	46.0	569.8	49.6	371,188.7	5,587.4	2,170.7	957.9	9.9	948.0	537.1	2,707.8
2007-06-11	739,380.9	46.2	577.6	49.5	366,017.8	5,509.6	2,140.5	952.9	10.0	942.9	534.2	2,674.7
2007-06-12	562,169.4	46.0	568.6	50.7	285,070.3	4,291.1	1,667.1	505.8	7.7	498.0	282.2	1,949.3
2007-06-13	671,700.3	46.3	541.0	52.0	349,129.8	5,255.4	2,041.7	651.4	8.7	642.6	364.1	2,405.8
2007-06-14	308,595.1	46.3	593.7	55.0	169,842.3	2,556.6	993.2	-33.0	4.4	-37.4	-21.2	972.0
2007-06-15	618,705.3	48.1	587.7	54.8	338,820.0	5,100.2	1,981.4	559.3	8.2	551.1	312.3	2,293.7
2007-06-16	707,613.5	48.3	638.8	53.8	380,599.1	5,729.1	2,225.7	898.4	9.6	888.8	503.6	2,729.3
2007-06-17	707,648.6	48.5	617.3	53.2	376,402.3	5,665.9	2,201.2	898.6	9.6	889.0	503.7	2,704.9
2007-06-18	714,795.6	48.6	576.7	53.1	379,310.0	5,709.7	2,218.2	894.4	9.6	884.8	501.3	2,719.5
2007-06-19	717,311.6	49.6	610.1	52.6	377,242.3	5,678.6	2,206.1	892.6	9.7	882.9	500.3	2,706.4
2007-06-20	722,911.6	48.6	614.1	52.2	377,323.9	5,679.8	2,206.6	891.1	9.7	881.4	499.4	2,706.0
2007-06-21	719,796.6	47.9	597.3	52.3	376,182.4	5,662.6	2,199.9	890.7	9.7	881.1	499.2	2,699.1
2007-06-22	723,120.6	48.4	579.1	51.6	373,365.9	5,620.2	2,183.4	891.2	9.6	881.6	499.5	2,682.9
2007-06-23	727,189.6	48.6	590.5	51.4	373,618.2	5,624.0	2,184.9	892.3	9.7	882.6	500.1	2,685.0
2007-06-24	728,302.6	48.2	612.8	51.1	371,947.2	5,598.8	2,175.2	892.8	9.6	883.2	500.4	2,675.5
2007-06-25	729,889.6	48.2	583.4	51.0	372,124.6	5,601.5	2,176.2	891.2	9.6	881.5	499.5	2,675.7
2007-06-26	732,392.5	49.0	628.4	51.1	374,357.7	5,635.1	2,189.2	879.7	9.8	869.9	492.9	2,682.1
2007-06-27	696,975.5	49.5	683.8	50.6	352,823.9	5,311.0	2,063.3	810.6	9.7	801.0	453.8	2,517.2
2007-06-28	686,682.6	48.6	622.0	50.9	349,813.3	5,265.7	2,045.7	807.5	9.6	797.9	452.1	2,497.8

Date	LFG collected	Temp	Pressure	CH <sub>4</sub> concentration	CH <sub>4</sub> collected	ER from CH <sub>4</sub> combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	Nm <sup>3</sup> /day	°C	mmAq	%	Nm <sup>3</sup> /day	tCO <sub>2</sub> / day	tCO <sub>2</sub>	MWh	MWh	MWh	tCO <sub>2</sub>	tCO <sub>2</sub>
2007-06-29	551,118.1	48.2	625.6	51.0	280,871.7	4,227.9	1,642.5	363.9	7.5	356.4	201.9	1,844.5
2007-06-30	216,617.8	52.7	769.2	51.7	111,895.9	1,684.3	654.4	-19.0	3.1	-22.1	-12.5	641.8
2007-07-01	432,582.0	52.0	1,130.5	53.8	232,544.5	3,500.4	1,359.9	-17.0	6.4	-23.4	-13.3	1,346.6
2007-07-02	420,411.0	52.0	1,102.0	53.9	226,630.2	3,411.4	1,325.3	-19.0	6.3	-25.3	-14.3	1,311.0
2007-07-03	460,848.0	52.0	1,212.0	54.3	250,445.4	3,769.9	1,464.6	-18.0	6.4	-24.4	-13.8	1,450.8
2007-07-04	478,093.0	52.0	1,305.3	54.2	258,983.8	3,898.4	1,514.5	-16.0	6.6	-22.6	-12.8	1,501.7
2007-07-05	529,632.0	52.0	1,117.1	55.3	292,880.3	4,408.7	1,712.8	-17.0	7.1	-24.1	-13.7	1,699.1
2007-07-06	612,042.0	52.0	989.3	55.6	340,562.5	5,126.4	1,991.6	-16.0	7.7	-23.7	-13.4	1,978.2
2007-07-07	611,314.0	52.0	980.4	55.4	338,726.7	5,098.8	1,980.9	-16.0	7.7	-23.7	-13.4	1,967.4
2007-07-08	612,540.0	52.0	985.0	55.3	338,817.9	5,100.2	1,981.4	-15.0	7.7	-22.7	-12.9	1,968.6
2007-07-09	554,346.0	52.0	865.3	55.7	308,571.2	4,644.9	1,804.5	-16.0	7.0	-23.0	-13.0	1,791.5
2007-07-10	588,954.1	52.0	793.0	55.1	324,506.9	4,884.7	1,897.7	-16.0	7.6	-23.6	-13.4	1,884.3
2007-07-11	610,143.9	52.0	869.8	55.0	335,400.4	5,048.7	1,961.4	-15.0	7.7	-22.7	-12.9	1,948.6
2007-07-12	654,077.0	52.0	974.2	55.4	362,653.0	5,458.9	2,120.8	-6.0	7.7	-13.7	-7.8	2,113.0
2007-07-13	677,393.2	52.0	900.0	55.3	374,275.2	5,633.9	2,188.8	0.0	7.8	-7.8	-4.4	2,184.3
2007-07-14	681,473.2	52.0	914.2	54.8	373,744.4	5,625.9	2,185.7	0.0	7.7	-7.7	-4.4	2,181.3
2007-07-15	652,161.0	52.0	911.5	54.2	353,659.5	5,323.6	2,068.2	0.0	7.7	-7.7	-4.4	2,063.8
2007-07-16	648,154.0	52.0	911.6	53.9	349,254.5	5,257.3	2,042.4	0.0	7.7	-7.7	-4.4	2,038.1
2007-07-17	646,918.0	52.0	933.2	54.6	353,415.4	5,319.9	2,066.8	0.0	7.7	-7.7	-4.4	2,062.4
2007-07-18	632,743.0	52.0	975.3	54.7	346,231.1	5,211.7	2,024.8	0.0	7.7	-7.7	-4.4	2,020.4

Date	LFG collected	Temp	Pressure	CH <sub>4</sub> concentration	CH <sub>4</sub> collected	ER from CH <sub>4</sub> combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	N m <sup>3</sup> /day	°C	mmAq	%	N m <sup>3</sup> /day	tCO <sub>2</sub> / day	tCO <sub>2</sub>	MWh	MWh	MWh	tCO <sub>2</sub>	tCO <sub>2</sub>
2007-07-19	625,178.0	52.0	966.8	54.8	342,522.1	5,155.9	2,003.1	0.0	7.6	-7.6	-4.3	1,998.7
2007-07-20	627,525.0	52.0	994.8	54.8	343,809.6	5,175.3	2,010.6	0.0	7.7	-7.7	-4.4	2,006.2
2007-07-21	621,919.0	52.0	878.0	54.5	339,091.9	5,104.3	1,983.0	0.0	7.7	-7.7	-4.4	1,978.7
2007-07-22	586,080.0	52.0	870.0	54.0	316,483.2	4,764.0	1,850.8	0.0	7.8	-7.8	-4.4	1,846.4
2007-07-23	620,561.0	52.0	901.3	54.7	339,292.8	5,107.3	1,984.2	0.0	7.9	-7.9	-4.5	1,979.7
2007-07-24	668,556.0	52.0	955.8	55.6	371,625.6	5,594.0	2,173.3	0.0	7.9	-7.9	-4.5	2,168.8
2007-07-25	670,918.0	52.0	954.7	55.6	372,914.8	5,613.4	2,180.8	0.0	7.9	-7.9	-4.5	2,176.3
2007-07-26	663,507.0	52.0	940.0	55.0	365,199.0	5,497.3	2,135.7	0.0	7.9	-7.9	-4.5	2,131.2
2007-07-27	620,432.0	52.0	983.8	54.4	337,404.2	5,078.9	1,973.1	-7.0	4.7	-11.7	-6.7	1,966.5
2007-07-28	684,593.2	52.0	1,134.6	55.1	377,317.0	5,679.7	2,206.6	-18.0	2.4	-20.4	-11.5	2,195.0
2007-07-29	669,113.3	52.0	1,190.0	54.8	366,473.5	5,516.5	2,143.1	-16.0	14.4	-30.4	-17.3	2,125.9
2007-07-30	642,175.6	48.6	1,248.7	53.9	346,443.4	5,214.9	2,026.0	-17.0	8.0	-25.0	-14.2	2,011.8
2007-07-31	621,580.8	46.0	1,174.1	53.8	334,304.8	5,032.2	1,955.0	-59.1	8.0	-67.1	-38.0	1,917.0
2007-08-01	634,174.7	46.0	1,231.8	54.2	343,417.0	5,169.4	2,008.3	-16.0	6.1	-22.1	-12.5	1,995.8
2007-08-02	642,648.6	46.0	1,316.7	54.1	347,962.3	5,237.8	2,034.9	-20.0	9.8	-29.8	-16.9	2,018.0
2007-08-03	628,696.7	46.0	1,230.6	55.5	348,677.3	5,248.6	2,039.1	-18.0	7.9	-25.9	-14.7	2,024.4
2007-08-04	696,722.0	46.0	1,114.2	56.5	393,373.7	5,921.4	2,300.5	-17.0	8.1	-25.1	-14.2	2,286.2
2007-08-05	691,942.0	46.0	1,137.3	56.9	393,599.4	5,924.8	2,301.8	-15.0	8.1	-23.1	-13.1	2,288.7
2007-08-06	695,961.0	46.0	1,152.3	56.8	395,606.1	5,955.0	2,313.5	-17.0	8.2	-25.2	-14.3	2,299.2
2007-08-07	697,205.0	46.0	1,179.3	57.0	397,177.8	5,978.6	2,322.7	-16.0	8.2	-24.2	-13.7	2,309.0

Date	LFG collected	Temp	Pressure	CH <sub>4</sub> concentration	CH <sub>4</sub> collected	ER from CH <sub>4</sub> combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	Nm <sup>3</sup> /day	°C	mmAq	%	Nm <sup>3</sup> /day	tCO <sub>2</sub> / day	tCO <sub>2</sub>	MWh	MWh	MWh	tCO <sub>2</sub>	tCO <sub>2</sub>
2007-08-08	690,027.0	46.0	1,181.9	57.2	394,665.2	5,940.8	2,308.0	-17.0	8.1	-25.1	-14.2	2,293.8
2007-08-09	703,242.0	46.0	1,146.9	57.2	402,243.9	6,054.9	2,352.3	-17.0	8.7	-25.7	-14.6	2,337.7
2007-08-10	747,562.5	46.0	1,101.9	57.0	426,346.1	6,417.7	2,493.3	-17.0	9.7	-26.7	-15.1	2,478.1
2007-08-11	717,048.8	46.0	1,146.1	55.9	400,744.3	6,032.3	2,343.6	-17.0	9.4	-26.4	-15.0	2,328.6
2007-08-12	717,678.0	46.0	1,146.7	55.4	397,732.6	5,987.0	2,325.9	-17.0	9.4	-26.4	-15.0	2,311.0
2007-08-13	718,811.0	46.0	1,148.1	55.6	399,731.1	6,017.1	2,337.6	-16.0	9.4	-25.4	-14.4	2,323.2
2007-08-14	712,552.9	46.0	1,117.4	55.7	397,059.9	5,976.9	2,322.0	-17.0	9.4	-26.4	-14.9	2,307.1
2007-08-15	709,672.9	46.0	1,065.8	55.2	391,660.3	5,895.6	2,290.4	-17.0	9.3	-26.3	-14.9	2,275.5
2007-08-16	702,742.0	46.0	835.1	53.9	378,870.1	5,703.1	2,215.6	-16.0	9.4	-25.4	-14.4	2,201.2
2007-08-17	693,674.0	46.0	892.0	54.6	378,460.6	5,696.9	2,213.2	-16.0	9.4	-25.4	-14.4	2,198.8
2007-08-18	694,732.0	46.0	915.2	55.6	386,599.7	5,819.4	2,260.8	-17.0	9.4	-26.4	-15.0	2,245.9
2007-08-19	720,125.8	46.0	653.0	54.5	392,407.5	5,906.8	2,294.8	-16.0	9.7	-25.7	-14.6	2,280.3
2007-08-20	700,167.0	46.0	777.3	54.1	379,101.1	5,706.5	2,217.0	-17.0	9.6	-26.6	-15.1	2,201.9
2007-08-21	719,074.8	46.0	818.8	53.7	386,456.6	5,817.3	2,260.0	-18.0	9.6	-27.6	-15.6	2,244.4
2007-08-22	779,224.2	46.0	869.0	53.0	413,110.8	6,218.5	2,415.9	-12.0	9.7	-21.7	-12.3	2,403.6
2007-08-23	778,605.2	46.0	888.6	52.8	410,759.0	6,183.1	2,402.1	0.0	9.7	-9.7	-5.5	2,396.6
2007-08-24	779,680.2	46.0	884.3	52.7	410,760.4	6,183.1	2,402.1	-9.0	9.8	-18.8	-10.6	2,391.5
2007-08-25	776,235.2	46.0	860.3	52.2	405,036.3	6,096.9	2,368.7	-16.0	9.8	-25.8	-14.6	2,354.0
2007-08-26	776,427.2	46.0	861.3	52.2	405,135.4	6,098.4	2,369.2	-17.0	9.8	-26.8	-15.2	2,354.1
2007-08-27	765,876.3	46.0	839.7	52.0	398,255.7	5,994.9	2,329.0	-16.0	9.7	-25.7	-14.6	2,314.4



Date	LFG collected	Temp	Pressure	CH <sub>4</sub> concentration	CH <sub>4</sub> collected	ER from CH <sub>4</sub> combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	N m <sup>3</sup> /day	°C	mmAq	%	N m <sup>3</sup> /day	tCO <sub>2</sub> / day	tCO <sub>2</sub>	MWh	MWh	MWh	tCO <sub>2</sub>	tCO <sub>2</sub>
2007-08-28	764,076.0	46.0	839.4	52.8	403,445.3	6,073.0	2,359.4	-18.0	9.6	-27.6	-15.6	2,343.7
2007-08-29	773,712.3	46.0	846.0	53.0	410,255.7	6,175.5	2,399.2	-16.0	9.7	-25.7	-14.5	2,384.6
2007-08-30	771,234.3	46.0	835.7	52.6	405,344.5	6,101.6	2,370.5	-18.0	9.7	-27.7	-15.7	2,354.8
2007-08-31	777,153.2	46.0	851.7	52.0	404,119.7	6,083.1	2,363.3	-16.0	9.7	-25.7	-14.5	2,348.8
2007-09-01	758,525.4	46.0	769.8	52.0	394,433.2	5,937.3	2,306.7	-16.0	9.7	-25.7	-14.6	2,292.1
2007-09-02	747,229.5	46.0	859.2	51.4	383,971.0	5,779.8	2,245.5	-16.0	9.6	-25.6	-14.5	2,230.9
2007-09-03	759,554.4	46.0	940.6	51.7	392,390.9	5,906.6	2,294.7	-16.0	9.7	-25.7	-14.5	2,280.2
2007-09-04	767,710.0	46.0	979.2	52.2	400,389.4	6,027.0	2,341.5	-16.0	9.6	-25.6	-14.5	2,327.0
2007-09-05	767,686.0	46.0	1,019.9	52.2	400,613.1	6,030.3	2,342.8	-16.0	9.6	-25.6	-14.5	2,328.3
2007-09-06	770,944.0	46.0	864.2	52.3	403,001.4	6,066.3	2,356.8	-20.0	9.6	-29.6	-16.8	2,340.0
2007-09-07	759,129.0	46.0	674.3	53.1	403,116.0	6,068.0	2,357.4	-20.0	9.4	-29.4	-16.7	2,340.8
2007-09-08	731,631.0	46.0	749.3	53.6	392,470.6	5,907.8	2,295.2	-18.0	9.0	-27.0	-15.3	2,279.9
2007-09-09	701,867.0	46.0	868.5	53.9	378,634.4	5,699.5	2,214.3	-18.0	8.8	-26.8	-15.2	2,199.1
2007-09-10	546,194.2	46.0	740.8	53.7	293,117.6	4,412.2	1,714.2	-36.0	7.3	-43.3	-24.6	1,689.6
2007-09-11	564,028.6	46.0	668.8	53.6	302,037.9	4,546.5	1,766.3	114.0	9.0	105.0	59.5	1,825.8
2007-09-12	718,361.0	46.0	909.4	55.5	398,371.1	5,996.6	2,329.7	-28.0	9.4	-37.4	-21.2	2,308.5
2007-09-13	725,632.0	46.0	1,048.5	55.6	403,635.8	6,075.8	2,360.5	-19.0	9.5	-28.5	-16.2	2,344.3
2007-09-14	755,762.0	46.0	695.5	52.9	399,806.3	6,018.2	2,338.1	-19.0	9.5	-28.5	-16.1	2,321.9
2007-09-15	778,192.2	46.0	360.0	50.3	391,543.1	5,893.8	2,289.7	-19.0	9.4	-28.4	-16.1	2,273.7
2007-09-16	759,952.4	46.0	360.0	51.4	390,938.7	5,884.7	2,286.2	-18.0	9.4	-27.4	-15.5	2,270.7

Date	LFG collected	Temp	Pressure	CH <sub>4</sub> concentration	CH <sub>4</sub> collected	ER from CH <sub>4</sub> combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	N m <sup>3</sup> /day	°C	mmAq	%	N m <sup>3</sup> /day	tCO <sub>2</sub> / day	tCO <sub>2</sub>	MWh	MWh	MWh	tCO <sub>2</sub>	tCO <sub>2</sub>
2007-09-17	731,188.0	46.0	403.5	53.7	392,633.3	5,910.2	2,296.1	-32.1	8.9	-41.0	-23.2	2,272.9
2007-09-18	718,101.1	46.0	597.5	53.7	385,932.3	5,809.4	2,256.9	412.5	9.6	402.8	228.3	2,485.2
2007-09-19	765,126.8	46.4	400.6	53.5	409,181.8	6,159.3	2,392.9	1,060.3	9.7	1,050.6	595.3	2,988.2
2007-09-20	774,481.8	46.4	385.6	53.5	414,341.5	6,237.0	2,423.1	1,074.9	9.7	1,065.2	603.5	3,026.6
2007-09-21	770,067.7	46.1	413.1	53.6	413,125.4	6,218.7	2,416.0	1,076.1	9.8	1,066.4	604.2	3,020.2
2007-09-22	771,028.7	46.4	413.4	53.4	411,592.2	6,195.6	2,407.0	1,077.3	9.8	1,067.5	604.9	3,011.9
2007-09-23	766,186.8	46.7	397.8	50.6	387,939.3	5,839.6	2,268.7	1,077.8	9.8	1,068.1	605.2	2,873.8
2007-09-24	750,754.0	46.9	385.0	50.6	379,589.8	5,713.9	2,219.8	1,078.4	9.7	1,068.7	605.5	2,825.4
2007-09-25	736,388.2	47.2	368.0	49.9	367,317.7	5,529.2	2,148.1	1,080.1	9.7	1,070.4	606.5	2,754.6
2007-09-26	772,359.8	47.5	412.2	49.7	384,081.8	5,781.5	2,246.1	1,079.1	9.8	1,069.4	605.9	2,852.0
2007-09-27	813,778.3	47.2	491.5	49.9	406,027.5	6,111.9	2,374.5	1,022.9	9.8	1,013.1	574.0	2,948.5
2007-09-28	758,929.5	47.3	470.3	52.6	399,062.6	6,007.0	2,333.7	1,077.9	9.7	1,068.3	605.3	2,939.0
2007-09-29	791,699.5	47.4	365.2	54.3	429,794.1	6,469.6	2,513.4	1,079.2	9.8	1,069.4	605.9	3,119.4
2007-09-30	797,080.4	47.3	389.3	54.4	433,983.9	6,532.7	2,537.9	1,077.5	9.8	1,067.6	604.9	3,142.9
2007-10-01	793,377.5	47.5	375.7	54.5	432,546.1	6,511.0	2,529.5	1,078.4	9.8	1,068.6	605.5	3,135.0
2007-10-02	798,480.5	47.5	369.6	54.4	434,506.0	6,540.5	2,541.0	1,077.7	9.8	1,067.9	605.1	3,146.1
2007-10-03	800,852.5	47.3	356.9	54.2	433,933.9	6,531.9	2,537.7	1,078.0	9.8	1,068.2	605.3	3,142.9
2007-10-04	797,724.5	47.3	347.6	53.9	430,150.8	6,475.0	2,515.5	1,075.8	9.8	1,066.0	604.0	3,119.5
2007-10-05	794,690.5	47.5	350.8	54.1	430,001.7	6,472.7	2,514.7	1,077.9	9.8	1,068.1	605.2	3,119.9
2007-10-06	778,946.7	47.6	360.8	53.7	418,319.8	6,296.9	2,446.3	1,078.0	9.8	1,068.2	605.3	3,051.6

Date	LFG collected	Temp	Pressure	CH <sub>4</sub> concentration	CH <sub>4</sub> collected	ER from CH <sub>4</sub> combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	Nm <sup>3</sup> /day	°C	mmAq	%	Nm <sup>3</sup> /day	tCO <sub>2</sub> / day	tCO <sub>2</sub>	MWh	MWh	MWh	tCO <sub>2</sub>	tCO <sub>2</sub>
2007-10-07	764,484.8	47.3	396.0	52.8	403,606.5	6,075.4	2,360.3	1,077.1	9.8	1,067.3	604.7	2,965.0
2007-10-08	788,426.6	46.3	376.2	53.3	419,917.3	6,320.9	2,455.7	1,081.8	9.8	1,072.0	607.4	3,063.1
2007-10-09	784,811.7	46.2	333.2	53.1	416,399.6	6,268.0	2,435.1	1,083.4	9.8	1,073.5	608.3	3,043.4
2007-10-10	791,664.7	46.2	358.0	53.5	423,225.3	6,370.7	2,475.0	1,081.7	9.9	1,071.8	607.3	3,082.3
2007-10-11	628,609.8	45.9	366.6	53.9	338,934.2	5,101.9	1,982.1	502.3	7.9	494.4	280.1	2,262.2
2007-10-12	778,187.6	46.2	393.2	54.4	423,559.8	6,375.8	2,477.0	1,082.7	9.9	1,072.8	607.8	3,084.8
2007-10-13	646,112.4	46.4	459.0	54.1	349,497.7	5,260.9	2,043.9	809.0	8.9	800.1	453.3	2,497.2
2007-10-14	888,701.3	51.9	487.5	55.4	491,938.2	7,405.0	2,876.9	1,084.0	12.3	1,071.7	607.2	3,484.1
2007-10-15	881,357.4	52.3	501.6	54.9	483,646.5	7,280.2	2,828.4	1,083.4	12.4	1,071.0	606.8	3,435.2
2007-10-16	867,162.5	52.2	484.3	55.2	478,780.1	7,207.0	2,799.9	1,056.2	12.3	1,044.0	591.5	3,391.4
2007-10-17	869,401.4	51.9	529.0	54.7	475,548.3	7,158.3	2,781.0	1,069.1	12.5	1,056.6	598.7	3,379.7
2007-10-18	898,580.2	52.4	541.8	54.5	489,334.3	7,365.9	2,861.6	1,082.8	12.7	1,070.1	606.3	3,468.0
2007-10-19	901,793.2	51.6	511.9	54.6	492,274.1	7,410.1	2,878.8	1,083.6	12.7	1,070.9	606.8	3,485.6
2007-10-20	902,905.2	50.4	510.6	54.2	489,542.3	7,369.0	2,862.8	1,085.9	12.4	1,073.6	608.3	3,471.1
2007-10-21	790,817.6	51.1	521.3	54.1	427,659.9	6,437.5	2,501.0	716.3	11.2	705.1	399.5	2,900.4
2007-10-22	828,705.5	51.3	431.7	54.3	450,246.2	6,777.5	2,633.0	936.8	12.0	924.8	524.0	3,157.0
2007-10-23	877,588.7	51.7	375.4	54.0	474,217.8	7,138.3	2,773.2	1,078.8	0.0	1,078.8	611.2	3,384.5
2007-10-24	897,906.4	52.5	520.1	54.2	486,792.6	7,327.6	2,846.8	1,080.6	0.0	1,080.6	612.3	3,459.0
2007-10-25	905,702.3	52.8	539.6	54.5	493,672.4	7,431.2	2,887.0	1,080.5	37.9	1,042.6	590.7	3,477.7
2007-10-26	889,979.5	52.7	519.4	54.5	484,646.9	7,295.3	2,834.2	1,081.5	12.5	1,069.0	605.7	3,439.9

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Date	LFG collected	Temp	Pressure	CH <sub>4</sub> concentration	CH <sub>4</sub> collected	ER from CH <sub>4</sub> combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	Nm <sup>3</sup> /day	℃	mmAq	%	Nm <sup>3</sup> /day	tCO <sub>2</sub> / day	tCO <sub>2</sub>	MWh	MWh	MWh	tCO <sub>2</sub>	tCO <sub>2</sub>
2007-10-27	851,875.6	52.4	513.3	54.7	466,399.5	7,020.6	2,727.5	773.8	11.0	762.8	432.2	3,159.7
2007-10-28	951,826.8	51.8	605.4	54.6	519,771.7	7,824.0	3,039.6	1,082.5	12.4	1,070.1	606.3	3,645.9
2007-10-29	942,389.0	51.2	596.5	54.6	514,267.0	7,741.2	3,007.4	1,083.3	12.5	1,070.8	606.7	3,614.1
2007-10-30	933,401.1	51.9	542.6	54.8	511,349.6	7,697.2	2,990.4	1,084.0	12.4	1,071.7	607.2	3,597.6
2007-10-31	934,164.1	51.8	553.5	54.8	511,729.1	7,703.0	2,992.6	1,083.9	11.8	1,072.1	607.5	3,600.1
2007-11-01	936,728.0	51.3	562.0	54.5	510,300.5	7,681.5	2,984.2	1,085.8	12.8	1,072.9	607.9	3,592.2
2007-11-02	942,513.9	51.2	598.3	53.8	506,930.9	7,630.7	2,964.5	1,085.7	12.4	1,073.3	608.1	3,572.7
2007-11-03	916,892.8	51.5	577.4	54.0	494,881.6	7,449.4	2,894.1	1,025.7	11.8	1,013.9	574.5	3,468.5
2007-11-04	920,065.2	51.7	588.1	54.2	499,120.7	7,513.2	2,918.9	1,086.1	12.4	1,073.7	608.4	3,527.2
2007-11-05	938,653.0	51.4	626.5	54.0	506,448.4	7,623.5	2,961.7	1,085.2	12.4	1,072.8	607.8	3,569.6
2007-11-06	967,663.7	51.5	647.7	53.3	516,207.2	7,770.4	3,018.8	1,083.6	12.6	1,071.0	606.9	3,625.6
2007-11-07	970,841.7	51.4	636.3	53.5	519,107.4	7,814.0	3,035.7	1,083.1	12.5	1,070.6	606.6	3,642.4
2007-11-08	982,040.6	51.6	631.8	53.5	524,946.4	7,901.9	3,069.9	1,083.5	12.4	1,071.1	606.9	3,676.8
2007-11-09	971,846.7	51.0	636.7	53.5	520,180.3	7,830.2	3,042.0	1,084.4	12.5	1,071.9	607.3	3,649.3
2007-11-10	944,850.0	50.8	617.3	53.8	508,569.3	7,655.4	2,974.1	1,085.1	12.5	1,072.6	607.7	3,581.9
2007-11-11	921,637.3	50.8	568.8	53.5	493,255.9	7,424.9	2,884.6	1,085.8	12.5	1,073.3	608.1	3,492.7
2007-11-12	909,253.4	50.7	564.5	53.6	486,969.8	7,330.3	2,847.8	1,084.7	12.5	1,072.2	607.5	3,455.3
2007-11-13	897,037.5	50.8	546.5	53.8	482,989.7	7,270.3	2,824.5	1,083.9	12.5	1,071.4	607.1	3,431.6
2007-11-14	894,900.5	51.0	533.6	54.0	483,246.3	7,274.2	2,826.0	1,083.8	12.5	1,071.3	607.0	3,433.1
2007-11-15	895,944.4	50.7	530.9	54.5	487,882.1	7,344.0	2,853.1	1,084.1	12.5	1,071.6	607.2	3,460.3

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Date	LFG collected	Temp	Pressure	CH4 concentration	CH4 collected	ER from CH4 combusted	AF adjusted	Electricity to Grid	Electricity consumption	Net generation	ER from grid elec. displacement	Total ER
YYYY-MM-DD	Nm³/day	℃	mmAq	%	Nm³/day	tCO2 / day	tCO2	MWh	MWh	MWh	tCO2	tCO2
2007-11-16	895,370.4	50.3	525.9	54.8	490,494.6	7,383.3	2,868.4	1,084.5	12.6	1,071.9	607.4	3,475.8
2007-11-17	908,587.2	50.0	558.3	54.8	498,054.0	7,497.1	2,912.6	1,084.9	12.5	1,072.4	607.6	3,520.3
2007-11-18	913,736.2	48.4	569.9	54.5	498,146.7	7,498.5	2,913.2	1,085.6	12.8	1,072.8	607.8	3,521.0
2007-11-19	907,779.3	48.6	591.3	54.5	494,531.6	7,444.1	2,892.0	1,084.7	12.7	1,072.1	607.4	3,499.5
2007-11-20	897,793.3	48.3	493.8	54.1	485,880.9	7,313.9	2,841.4	1,083.4	12.5	1,070.9	606.7	3,448.2
2007-11-21	706,516.0	48.3	495.0	54.4	384,079.2	5,781.5	2,246.1	101.6	9.6	92.0	52.1	2,298.2
2007-11-22	811,576.1	42.4	596.6	55.0	446,082.5	6,714.8	2,608.7	821.2	9.6	811.6	459.9	3,068.6
2007-11-23	802,072.0	41.1	603.8	54.7	438,410.8	6,599.3	2,563.8	1,086.1	9.9	1,076.1	609.7	3,173.6
2007-11-24	804,546.0	41.2	606.9	55.0	442,397.3	6,659.3	2,587.1	1,086.7	7.3	1,079.4	611.6	3,198.7
2007-11-25	800,200.0	41.1	637.3	55.2	442,101.7	6,654.9	2,585.4	1,087.9	13.2	1,074.7	608.9	3,194.3
2007-11-26	805,645.9	40.7	652.3	55.0	443,320.2	6,673.2	2,592.5	1,086.3	8.3	1,078.0	610.8	3,203.3
2007-11-27	804,968.9	40.2	625.3	54.6	439,744.3	6,619.4	2,571.6	1,086.2	10.9	1,075.3	609.3	3,180.9
2007-11-28	805,781.0	40.1	631.9	54.2	436,706.0	6,573.6	2,553.9	1,087.7	10.9	1,076.9	610.2	3,164.0
2007-11-29	803,458.0	40.1	616.8	54.2	435,844.8	6,560.7	2,548.8	1,087.8	9.1	1,078.7	611.2	3,160.0
2007-11-30	799,530.0	39.7	603.8	54.8	437,758.4	6,589.5	2,560.0	1,087.6	9.7	1,077.9	610.7	3,170.7