

Monitoring Report

Daegu Bangcheon-Ri Landfill Gas CDM Project

Monitoring Period: 19th August, 2007 ~ 31st March, 2008

Initial Verification (Ver.1)

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ECOYE Co., Ltd.

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1. General Project Activity and Monitoring Information

1.1. Title and Registration Number of the Project Activity

Daegu Bangcheon-Ri Landfill gas CDM Project (PROJECT-0851)

1.2. Short Description of the Project Activity :

Daegu Bangcheon-Ri Landfill gas CDM Project is located in 421, Bangcheon-Ri, Dasa-Eup, Dalsung-Gun, Daegu, Korea. Total area is 596,760m² and possible landfill capacity is 15,670,000 ton. Municipal Solid Wastes (MSW) from Daegu City has been filled up since 1990 and 14,700,000 tons of MSW is completed to fill up. This landfill site is designed to be expanded and 9,144,710 tons of MSW is expected to be filled up from 2005 until 2026. The treatment of landfill gas from Daegu Bangcheon-Ri Landfill site has been managed as reducing to Green House Gas (GHG) and the 'simple on-site treatment' to prevent odour, air pollution and fire before operation of this project.

In addition, to reduce methane otherwise which may be released to atmosphere, vertical collection gas pipes and refinery facility are going to be installed. Daegu Bangcheon-Ri Landfill gas CDM Project is the project which captures and refines LFG and refined LFG is supplied to Korea District Heating Corp. to produce thermal energy. Produced thermal energy utilizing LFG is supplied to users.

1.3. Real Project Implementation

Daegu Bangcheon-Ri Landfill



1.4. Changes against the PDD

This monitoring report is changed against the PDD about The location of 10 simple burning systems and AF(Adjustment Factor) 14.79% to 5.02%.(see Chapter 2.2.3 in detail)



1.5. Monitoring Period

The Monitoring Period is from 19th Aug. 2007 to 31th Mar. 2008.

1.6. Methodology applied to the Project Activity(incl. version No.)

1.6.1. Baseline Methodology

The baseline applied to this project activity is ACM0001 – version 05 ; “Consolidated baseline methodology for landfill gas project activities”.

1.6.2. Monitoring Methodology

The Monitoring Methodology applied to this project activity is ACM0001 – version 05 ; “Consolidated baseline methodology for landfill gas project activities”.

1.7. Changes since last Verification

Not applicable, since it's the 1st Verification.

1.8. Person responsible for the preparation and submission of the Monitoring Report

This Monitoring Report was developed and revised by ;

Dr. Jae-soo Jung
ECOYE Co., Ltd.

Dr. Suk-hyung Lee
Taegu Energy & Environment Co., Ltd.

ECOYE Co., Ltd.

| | | |
|-----|-------------|---|
| (C) | TI301 | Temperature transmeter, the line that is from the Buffer tank to the Flare |
| | PI301 | Pressure transmeter, the line that is from the Buffer tank to the Flare |
| (D) | FIQ302 | Flow meter, the line that is from the Buffer tank to the Storage tank |
| | AI201 | Gas analyzer, the line that is from the Buffer tank to the Storage tank |
| (E) | FIQ-A | Flow meter, the line that is from the Storage tank to the Boiler |
| | TI-A | Temperature transmeter, the line that is from the Storage tank to the Boiler |
| | PI-A | Pressure transmeter, the line that is from the Storage tank to the Boiler |
| | AI-A | Gas analyzer, the line that is from the Storage tank to the Boiler |
| (F) | FIQ201 | Flow meter, the line that is from the Storage tank to the Power plant |
| | TI203A | Temperature transmeter, the line that is from the Storage tank to the Power plant |
| | PI203A | Pressure transmeter, the line that is from the Storage tank to the Power plant |
| (G) | TI304A | Temperature transmeter, the line that is from the Flare |
| (H) | TI304B | Temperature transmeter, the line that is from the Flare |
| (I) | F | Flow meter, the line that is from the LNG supplier to the Storage tank |
| | T | Pressure transmeter, the line that is from the LNG supplier to the Storage tank |
| | P | Pressure transmeter, the line that is from the LNG supplier to the Storage tank |
| | G | Gas analyzer, the line that is from the LNG supplier to the Storage tank |
| (J) | H | Heating value |
| (K) | EN-2-03A, B | Electricity from the Power plant |

2.1.1. Temperature Transmeter

- specification : bimetal
- structure : water proof
- accuracy : $\pm 0.5\%$
- type : any angle
- cover material : STS 304
- cover dia.(outsize) : 6.4mm O.D.
- type of process connection : KS 10K FF FLANGE(1 1/2")

2.1.2. Pressure Transmeter

- specification : diaphragm
- pressure use : $-0.5 \sim 0 \text{ kg/cm}^2$
- material(body/element) : STS 304/STS 316)

- type of process connection : 1/2" PT
- case size : 100mm
- etc. : oil fill, blow-out hole

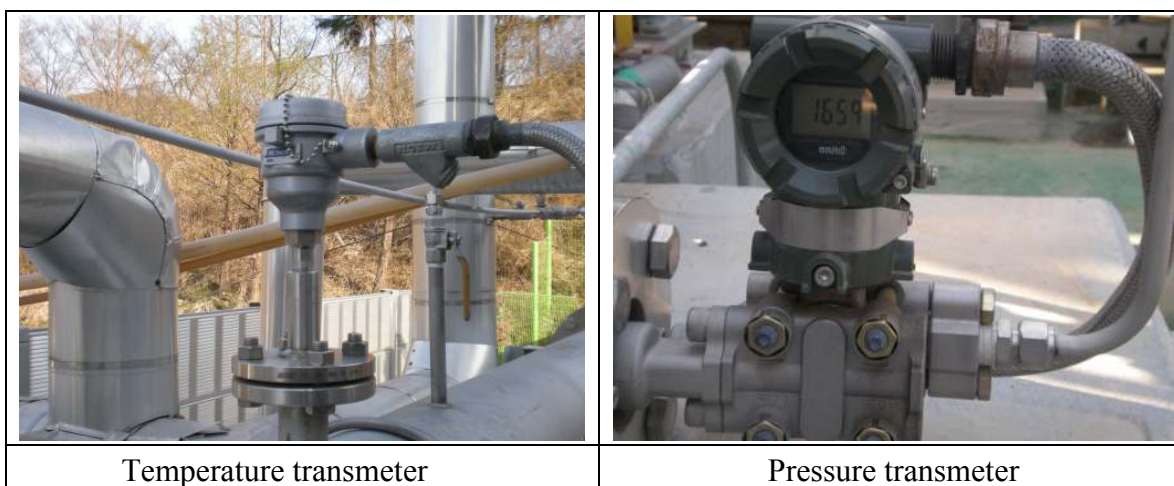
2.1.3. Flow Meter

- specification : vortex flowmeter
- output signal : 4~20Ma
- accuracy : $\pm 0.5\%$
- power : DC 24V
- material(body/element) : STS 304/STS 316)

2.1.4. Gas Analyzer

- specification : infrared analyzer
- ambient temperature : -5°C to 45°C
- ambient humidity : 90% RH max., non-condensing
- repeatability : $\pm 0.5\%$ of fullscale
- measurable gas components and measuring range :

| | Minimum range | Maximum range |
|-----------------------------|---------------|---------------|
| CO2 | 0 ~ 500 ppm | 0 ~ 100vol% |
| CH4 | 0 ~ 1000 ppm | 0 ~ 100 vol% |
| O2 (built-in paramagnet) | 0 ~ 5 vol% | 0 ~ 100 vol% |





Flow meter(Vortex Flow Meter)



Flow meter(Turbine Meter)



Flow meter(Rotary Meter)



Gas analyzer

2.2. Data Collection(accumulated for the period of 7 months)

This project is registered in 19th. Aug. 2007., we collected the data in the points of measurement during 20th. Aug. 2007. ~ 31th Mar. 2008.(the period of 7 months)

2.2.1. Collected Data 1

| | LFG total, y (Nm ³) | T ₁ (℃) | LFG flare, y (Nm ³) | FV _{CH₄R.G.h} (%) | w _{CH₄y1} (m ³ CH ₄ /m ³ LFG) | LFG thermal, y (Nm ³) | FV _{R.G.h} (m ³ /h) | w _{CH₄y2} (m ³ CH ₄ /m ³ LFG) | LFG electricity, y(Nm ³) | T ₂ (℃) | T ₃ (℃) | EL _{IMP} (MWh) | KEPCO (MWh) |
|---------|---------------------------------------|-----------------------|---------------------------------------|--|--|---|--|--|--|-----------------------|-----------------------|----------------------------|----------------|
| TAG No. | FIQ-101 | TI-102 | FIQ-301 | AI-201 | AI-101 | FIQ-A | FIQ-301 | AI-A | FIQ-201 | TI-304A | TI-304B | EN-2-03A | |
| 2007/8 | 708,192 | 21 | 40,265 | 54 | 54 | 656,552 | 40,265 | 56 | 7,354 | 243 | 74 | 3 | 382 |
| 2007/9 | 4,345,192 | 13 | 0 | 52 | 52 | 4,227,080 | 0 | 52 | 77,479 | 258 | 58 | 625 | 6,450 |
| 2007/10 | 4,373,858 | 12 | 988 | 52 | 52 | 4,277,020 | 988 | 52 | 65,647 | 64 | 20 | 66 | 957 |
| 2007/11 | 4,614,474 | 12 | 0 | 52 | 52 | 4,639,840 | 0 | 52 | 0 | 22 | 19 | 0 | 1,044 |
| 2007/12 | 5,119,384 | 12 | 0 | 51 | 51 | 5,131,560 | 0 | 51 | 0 | 22 | 19 | 0 | 1,095 |
| 2008/01 | 5,084,788 | 11 | 0 | 51 | 51 | 5,098,532 | 0 | 51 | 0 | 22 | 19 | 0 | 1,090 |
| 2008/02 | 4,714,592 | 10 | 0 | 51 | 50 | 4,756,824 | 0 | 50 | 0 | 22 | 19 | 0 | 1,083 |
| 2008/03 | 4,910,284 | 10 | 0 | 49 | 49 | 4,846,840 | 0 | 50 | 0 | 22 | 19 | 2,422 | 1,059 |

2.2.2. Related the Formulas

$$(1) ER_y = (MD_{project,y} - MD_{reg,y}) * GWP_{CH_4} + EL_y * CEF_{electricity,y} - ET_y * CEF_{thermal,y}$$

$$\rightarrow ER_y = (MD_{project,y} - MD_{reg,y}) * GWP_{CH_4-leakage}$$

| | |
|-----------------------|--|
| ER_y | Emission Reduction, in tones of CO ₂ equivalents(tCO ₂ e) |
| $MD_{project,y}$ | The amount of methane that would have been destroyed/combusted during the year, in tonnes of methane (tCH ₄) |
| $MD_{reg,y}$ | The amount of methane that would have been destroyed/combusted during the year in the absence of the project, in tonnes of methane (tCH ₄) |
| GWP_{CH_4} | Global Warming Portential of Methane during the first period : 21 tCO ₂ e/tCH ₄ |
| EL_y | net quantity of electricity exported during year y, in megawatt hours (MWh) |
| $CEF_{electricity,y}$ | CO ₂ emissions intensity of the electricity displaced, in tCO ₂ e/MWh. This can estimated using either ACM0002 or AMSI.D, if the capacity is within the small scale threshold values, when grid electricity is used or displaced, or AMS-I.A if captive electricity is used or displaced |
| ET_y | Incremental quantity of fossil fuel, defined as difference of fossil fuel used in the baseline and fossil use during project, for energy requirement on site under project activity during the year y, in TJ |
| $CEF_{thermal,y}$ | CO ₂ emissions intensity of the fuel used to generate thermal/mechanical energy, in tCO ₂ e/TJ |

$$(2) MD_{project,y} = MD_{flared,y} + MD_{electricity,y} + MD_{thermal,y}$$

| | |
|----------------------|--|
| $MD_{flared,y}$ | the quantity of methane destroyed by flaring |
| $MD_{electricity,y}$ | the quantity of methane destroyed by generation of electricity |
| $MD_{thermal,y}$ | the quantity of methane destroyed for the generation of thermal energy |

$$(3) MD_{flared,y} = (LFG_{flared,y} * w_{CH_4,y} * D_{CH_4}) - (PE_{flared,y} / GWP_{CH_4})$$

| | |
|------------------|--|
| $LFG_{flared,y}$ | Amount of landfill gas flared, Nm ³ |
| $w_{CH_4,y}$ | Methane fraction in the landfill gas, m ³ CH ₄ / m ³ LFG |
| D_{CH_4} | the methane density expressed in tonnes of methane per cubic meter of methane (tCH ₄ /m ³ CH ₄) (at standard temperature and pressure, the density of methane, 0.0007168 tCH ₄ / m ³ CH ₄) |
| $PE_{flared,y}$ | Project emissions from flaring of the residual gas stream in year y |
| GWP_{CH_4} | Global Warming Portential of Methane during the first period : 21 tCO ₂ e/tCH ₄ |

$$(4) MD_{electricity,y} = LFG_{electricity,y} * w_{CH_4,y} * D_{CH_4}$$

| | |
|-----------------------|--|
| $LFG_{electricity,y}$ | Amount of landfill gas combusted in power plant, Nm ³ |
|-----------------------|--|

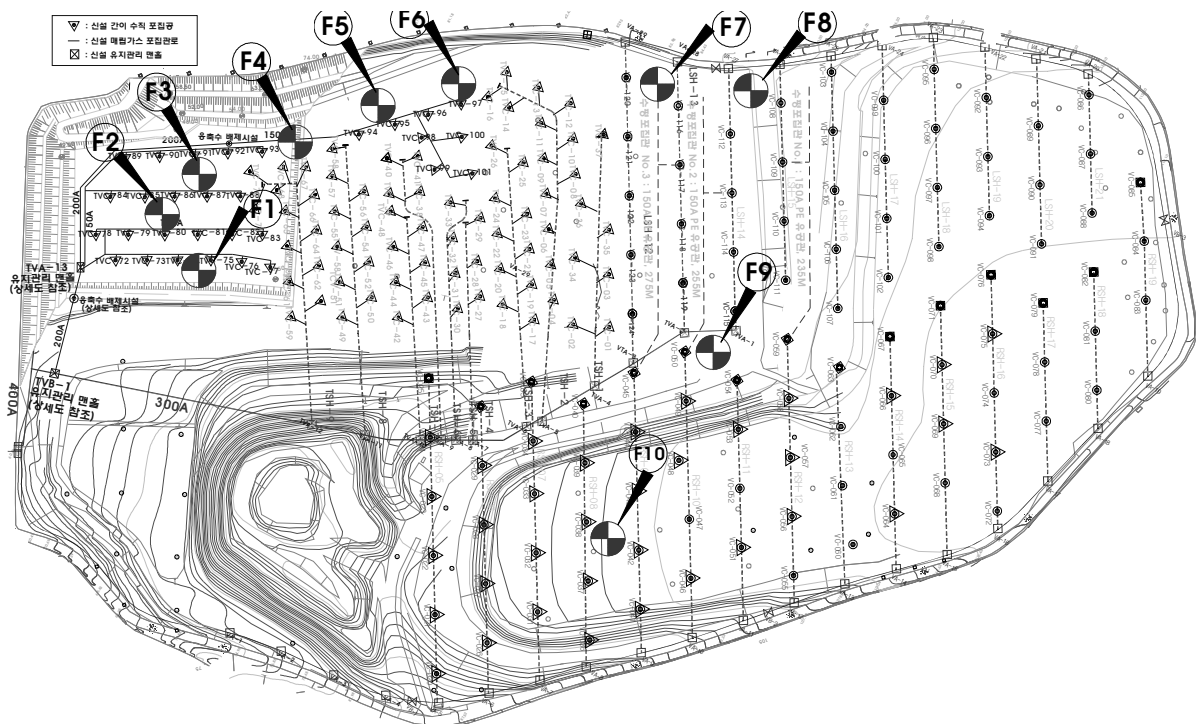
$$(5) MD_{thermal,y} = LFG_{thermal,y} * w_{CH_4,y} * D_{CH_4}$$

| | |
|-------------------|---|
| $LFG_{thermal,y}$ | Amount of landfill gas combusted in boiler, Nm ³ |
|-------------------|---|

2.2.3. Adjustment Factor(AF)

AF applied for estimation of emission reductions in the PDD is ex-ante value and AF will be calculated again in the monitoring process and calculated value will be applied for certifying emission reductions. Simple burning system was used before the project activity but it is not used to treat LFG anymore. However, to calculate AF, 10 simple burning facilities is established for measuring amount of methane captured by simple burning facility and total number of simple burning facilities applied to calculate AF is assumed as 41 which is number of simple burning facilities before the project activity and applied for calculating ex-ante AF. LFG captured and methane fraction of LFG of 10 simple burning facilities is measured quarterly for the first crediting period using portable measuring equipment which has similar capability with the equipment applied for measuring the value for calculation of ex-ante AF. 10 simple burning facilities locate evenly in the landfill site which is under filling-up and the landfill site in which filling-up is completed. Also, the point which is rarely influenced by capturing LFG by blower is selected as the location of 10 simple burning facilities and establishment depth of simple burning facility is averagely 2 to 2.5m under the ground. Additionally, measurement is performed 3 times during a day because the temperature is high and gas emission is quite active at that time during a day. It is measured over 3 times each a simple burning facility.

2.2.4. Location of the 10 simple burning system



2.2.5. Collected Data 2

- the first measurement(29th, Nov. 2007)

| Fn | CH ₄ (vol. %) | CO ₂ (vol. %) | O ₂ (vol. %) | Temp. (°C) | Pres. (mbar) | Normalized vol. (L/min.) | |
|-----|--------------------------|--------------------------|-------------------------|---------------|-----------------|--------------------------|-----------------|
| | | | | | | LFG | CH ₄ |
| F1 | 21.8 | 21.4 | 7.2 | 16.9 | 1010.0 | 10.9 | 2.4 |
| F2 | 58.0 | 44.9 | 0.0 | 18.6 | 1011.0 | 97.4 | 54.8 |
| F3 | 49.0 | 40.5 | 1.1 | 20.7 | 1010.3 | 89.2 | 43.0 |
| F4 | 67.0 | 45.3 | 0.0 | 18.8 | 1009.3 | 93.6 | 55.8 |
| F5 | 0.0 | 0.0 | 20.4 | 16.1 | 1008.3 | 43.4 | 0.0 |
| F6 | 0.1 | 2.5 | 17.0 | 18.0 | 1008.7 | 14.4 | 0.0 |
| F7 | 3.2 | 4.3 | 16.8 | 16.7 | 1008.0 | 47.0 | 0.8 |
| F8 | 55.7 | 42.7 | 0.2 | 18.3 | 1007.3 | 100.3 | 56.0 |
| F9 | 53.6 | 43.6 | 0.6 | 20.2 | 1006.7 | 328.4 | 174.0 |
| F10 | 33.9 | 25.1 | 3.1 | 24.0 | 1005.3 | 189.9 | 64.3 |

- the second measurement (19th, Feb. 2008)

| Fn | CH ₄ (vol. %) | CO ₂ (vol. %) | O ₂ (vol. %) | Temp. (°C) | Pres. (mbar) | Normalized vol. (L/min.) | |
|-----|--------------------------|--------------------------|-------------------------|---------------|-----------------|--------------------------|-----------------|
| | | | | | | LFG | CH ₄ |
| F1 | 51.1 | 40.3 | 0.1 | 13.0 | 1011.7 | 323.7 | 165.2 |
| F2 | 65.0 | 44.7 | 0.0 | 9.6 | 1009.7 | 382.3 | 226.6 |
| F3 | 0.0 | 0.03 | 19.7 | 7.6 | 1009.0 | 183.5 | 0.0 |
| F4 | 0.0 | 0.0 | 20.0 | 8.4 | 1008.7 | 48.4 | 0.0 |
| F5 | 22.6 | 28.1 | 1.4 | 14.2 | 1007.7 | 120.2 | 29.7 |
| F6 | 0.5 | 8.4 | 7.3 | 12.1 | 1006.3 | 183.5 | 0.9 |
| F7 | 59.6 | 45.1 | 0.0 | 10.8 | 1011.7 | 152.0 | 86.5 |
| F8 | 10.6 | 17.8 | 3.8 | 8.9 | 1011.3 | 14.9 | 1.6 |
| F9 | 15.2 | 20.6 | 3.0 | 20.6 | 1008.0 | 906.0 | 138.2 |
| F10 | 33.3 | 34.3 | 0.0 | 12.0 | 1007.0 | 209.5 | 67.5 |

2.2.6. Re-accumulated AF

<AF for Daegu Bangcheon-Ri Landfill site>

| Content | Value | Unit | Comment |
|---|---------------|-------------------------------------|--|
| Average amount of captured CH ₄ by a simple burning system | 37,651.6 | CH ₄ -Liter/EA | |
| Number of simple burning systems | 41 | EA | |
| Amount of treated CH ₄ included in LFG by simple burning system in baseline scenario | 1,543,715.6 | CH ₄ -m ³ /yr | For conservativeness applied destruction efficiency factor is 100% |
| Average amount of generated LFG from 2007 | 115,884,309.6 | LFG-m ³ /yr | |
| Average amount of generated CH ₄ from 2007 | 57,942,154.8 | CH ₄ -m ³ /yr | CH ₄ content 50% of LFG |
| CH ₄ treatment efficiency before the project (baseline scenario) | 2.66% | | |
| The lowest value of expected CH ₄ treatment efficiency during the first crediting period | 53% | | |
| AF | 5.02% | | |

AF was calculated as follows

First of all, we measured twice each 3 times per once in this monitoring period. After collecting data, we have to choose more conservative AF.

Second, most important thing that in this project we have discuss, that is reasonability of data, and conservativeness of data.

So we selected **5.02%** as AF.

3. Quality Assurance and Quality Control Measures

3.1. Quality Assurance

3.1.1. training

All training was supplied before the project's implementation. The training certificates will be presented to the verification team by the time of the on-site audit.

Also the monitoring manual was supplied by ECOEYE Co., Ltd. when the project was registered.

3.2. Quality Control Measure

All equipments are follows “the national standard basic law” article 14. Also all equipments are handed out the testing certification when they are set in the first place.

3.3. Calibration

“The national calibration organization operating law of the paragraph 2 Article 42” shall apply with The period of All equipments

The testing method of all equipments are according to the international standard, “Korea Laboratory Accreditation Scheme(KOLAS)” in the ministry of knowledge economy, Republic of Korea.

4. Calculation of GHG emission Reductions

4.1. Calculation of the main factors

4.1.1. Calculation of MD_{thermal}

| | MD _{thermal} | LFG _{thermal} | WCH ₄ | DCH ₄ |
|--------|-----------------------|------------------------|------------------|---------------------|
| | t CH ₄ | Nm ³ | (%) | ton/Nm ³ |
| Aug-08 | 264 | 656,552 | 0.56 | 0.0007168 |
| Sep-08 | 1,576 | 4,227,080 | 0.52 | 0.0007168 |
| Oct-08 | 1,594 | 4,277,020 | 0.52 | 0.0007168 |
| Nov-08 | 1,729 | 4,639,840 | 0.52 | 0.0007168 |
| Dec-08 | 1,876 | 5,131,560 | 0.51 | 0.0007168 |
| Jan-09 | 1,864 | 5,098,532 | 0.51 | 0.0007168 |
| Feb-09 | 1,705 | 4,756,824 | 0.50 | 0.0007168 |
| Mar-09 | 1,737 | 4,846,840 | 0.50 | 0.0007168 |
| Total | 12,345 | | | |

4.1.2. Calculation of MD_{electricity}

| | MD _{thermal} | LFG _{thermal} | WCH ₄ | DCH ₄ |
|--------|-----------------------|------------------------|------------------|---------------------|
| | t CH ₄ | Nm ³ | (%) | ton/Nm ³ |
| Aug-08 | 3 | 7,354 | 0.56 | 0.0007168 |
| Sep-08 | 29 | 77,479 | 0.52 | 0.0007168 |
| Oct-08 | 24 | 65,647 | 0.52 | 0.0007168 |
| Nov-08 | 0 | 0 | 0.52 | 0.0007168 |
| Dec-08 | 0 | 0 | 0.51 | 0.0007168 |
| Jan-09 | 0 | 0 | 0.51 | 0.0007168 |
| Feb-09 | 0 | 0 | 0.50 | 0.0007168 |
| Mar-09 | 0 | 0 | 0.50 | 0.0007168 |
| Total | 56 | | | |

4.1.3. Calculation of MD_{flared}

| | MD _{flared} | LFG _{flared} | W _{CH4} | D _{CH4} | PE _{flared} | (1- W _{CH4}) | D _{CH4} |
|--------|----------------------|-----------------------|------------------|------------------|----------------------|------------------------|------------------|
| | t CH4 | Nm3 | (%) | ton/Nm3 | Nm3 | (%) | ton/Nm3 |
| Aug-08 | 3.46 | 40,265 | 0.56 | 0.0007168 | 40,265 | 0.44 | 0.0007168 |
| Sep-08 | 0 | 0 | 0.52 | 0.0007168 | 0 | 0.48 | 0.0007168 |
| Oct-08 | 0.028 | 988 | 0.52 | 0.0007168 | 988 | 0.48 | 0.0007168 |
| Nov-08 | 0 | 0 | 0.52 | 0.0007168 | 0 | 0.48 | 0.0007168 |
| Dec-08 | 0 | 0 | 0.51 | 0.0007168 | 0 | 0.49 | 0.0007168 |
| Jan-09 | 0 | 0 | 0.51 | 0.0007168 | 0 | 0.49 | 0.0007168 |
| Feb-09 | 0 | 0 | 0.50 | 0.0007168 | 0 | 0.50 | 0.0007168 |
| Mar-09 | 0 | 0 | 0.50 | 0.0007168 | 0 | 0.50 | 0.0007168 |
| Total | 3.49 | | | | | | |

4.1.4. Calculation of Leakage

| | EL _{leakage} | EL _{imp} | FE _{EL, leakage} |
|--------|-----------------------|-------------------|---------------------------|
| | ton CO2 eq | MWh | ton CO2 eq/MWh |
| Aug-08 | 0.2 | 0.3820 | 0.5554 |
| Sep-08 | 3.6 | 6.4500 | 0.5554 |
| Oct-08 | 0.5 | 0.9570 | 0.5554 |
| Nov-08 | 0.6 | 1.0440 | 0.5554 |
| Dec-08 | 0.6 | 1.0950 | 0.5554 |
| Jan-09 | 0.6 | 1.0900 | 0.5554 |
| Feb-09 | 0.6 | 1.0830 | 0.5554 |
| Mar-09 | 0.6 | 1.0590 | 0.5554 |
| Total | 7.3 | | |

4.1.5. Conclusion of Emission Reduction

| period | ER _y (tCO ₂ e) | =(MD _{project,y} - MD _{reg,y}) * GWP _{CH₄} - leakage |
|-----------|--------------------------------------|--|
| Aug. 2007 | 5,384.4 | = (270-14) * 21 - 0.2 |
| Sep. 2007 | 31,998.7 | = (1,604-81) * 21 - 3.6 |
| Oct. 2007 | 32,285.7 | = (1,619-81) * 21 - 0.5 |
| Nov. 2007 | 34,494.4 | = (1,729-87) * 21 - 0.6 |
| Dec. 2007 | 37,416.4 | = (1,876-94) * 21 - 0.6 |
| Jan. 2008 | 37,175.6 | = (1,864-94) * 21 - 0.6 |
| Feb. 2008 | 34,003.9 | = (1,705-86) * 21 - 0.6 |
| Mar. 2008 | 34,647.4 | = (1,737-87) * 21 - 0.6 |
| Total | 247,406.5 | |

5. Summary of the emission reductions

- Total CO₂e from methane destroyed in thermal (MD_{thermal}) :
259,235 tonnes of CO₂ equivalent
- Total CO₂e from methane destroyed in flared (MD_{flared}) :
73 tonnes of CO₂ equivalent
- Total CO₂e from methane destroyed in electricity (MD_{electricity}) :
1,182 tonnes of CO₂ equivalent
- Total CO₂e from methane destroyed in regulatory (MD_{reg}) :
13,076.6 tonnes of CO₂ equivalent
- Total CO₂e from methane destroyed in thermal (leakage) :
7.3 tonnes of CO₂ equivalent
- Total GHG Emission Reductions in project (MD_{project}) :
 $(259,235 + 73 + 1,182) = \mathbf{260,490}$ tonnes of CO₂ equivalent
- Total Emission Reduction(ER_y) :
 $(260,490 - 13,076.6) - 7.3 = \mathbf{247,406}$ tonnes of CO₂ equivalent